Building a community of discovery and care.
For more than 120 years, the School of Pharmacy and Pharmaceutical Sciences has been building a community of discovery and care, from around the region to around the world. Our faculty and graduates have continuously advanced practice and research, raising our school to the upper ranks among peer institutions.

Within this annual report, you will see the wealth of activities and advancements that are building on the pioneering achievements of the school and the world-class recognition that continues to generate widespread interest.

**OUR MISSION STATEMENT**

The mission of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences is to educate students in pharmacy practice and the pharmaceutical sciences, to create and disseminate knowledge in pharmacy practice and the pharmaceutical sciences, to provide patient care, and to provide services to the community-at-large based upon this knowledge. This mission is to be achieved consistent with the highest ethical standards and with respect for diversity and cultural sensitivity.

The mission recognizes pharmaceutical care as a mode of pharmacy practice within the health-care team in which the patient is empowered “to achieve the desired outcomes of drug and related therapy.”

The mission also recognizes that research in the broad area of the clinical sciences, pharmaceutical sciences, and education is necessary to create and maintain a body of knowledge needed for professional education, health-care delivery, and the advancement of science. In this context, our goal is to enhance the local, national, and international leadership of the School of Pharmacy and Pharmaceutical Sciences and continue it as one of the strong components of the University at Buffalo and the State University of New York system. This will involve a focus on those areas of unique strength within the school and those areas that form unique, interdisciplinary bridges within the university.
Message from the Dean

Strength, promise, and achievement characterize the activities of the school during 2005–06.

First was the preparation for the Accreditation Council for Pharmacy Education (ACPE) accreditation site visit. Our comprehensive self-study provided us with the basis for a continuing dialogue in the school and formed the basis for a successful full reaccreditation. The ACPE recommendations provided strength and support to the school’s mission and will help provide an even stronger experiential program for our PharmD students throughout their training.

Another major activity involved planning for our new building on the UB South Campus (Main Street). As plans evolve for our occupancy of Acheson Hall, our building plans will also support the development of UB’s Academic Health Center (AHC). The emerging AHC will bring together, in a more formalized way, all of UB’s health sciences schools to form a synergistic health sciences center benefiting collaborative education and research, as well as local, regional, and national community members.

The highlight of the year, however, continues to be the achievements of our students and faculty. As you read this annual report, please share with me the pride in their accomplishments. The dedicated efforts of our staff are a critical element within the school. Together we have created a vision for our future in research, education, and service.

The final piece to ensure a successful future is you. Friends and alumni continue to support our school in myriad ways, including personal contributions, estate plans, and leadership in the development of corporate support.

Your support has increased the available pool of scholarships (need and merit based) for our PharmD students, the number of graduate students we can support, and the quality of our teaching and research environments.

Thank you,

Wayne K. Anderson
Professor and Dean
A first impression of Robert Straubinger and Linda Catanzaro does not necessarily spark their profound connection to the evolution of pharmacodynamics and pharmacoinformatics.

Catanzaro looks like the quintessential girl-turned-mom next door. And Straubinger’s laid-back demeanor seems reminiscent of his tenure on the West Coast, where he earned a PhD in pharmacology from the University of California-San Francisco.

Together, Catanzaro and Straubinger represent the essential balance of bench science brilliance and conscientious clinical research in a field that is changing the dynamic of American health care.
started on a pre-science, pre-med track, but the courses really weren’t that interesting,” confides Straubinger, associate professor of pharmaceutics. A native of Buffalo, he also is director of the Pharmaceutical Sciences Instrumentation Facility, and is heading the development of the proteomics laboratory at UB’s New York State Center of Excellence in Bioinformatics and Life Sciences.

Straubinger earned dual undergraduate degrees in English and anthropology from the University of Rochester, and then an MS in natural sciences from Roswell Park Cancer Institute, the graduate program that is affiliated with UB. “After I finished the master’s degree, I volunteered for about a year in a research lab in virology,” he says. “Being in a research lab, it was clear that I was really interested in that.”

When the researcher with whom he was working was recruited by the University at California–San Francisco, Straubinger went along as his PhD graduate research assistant in pharmacology. After earning his doctorate there, he completed a postdoctoral fellowship at the UCSF Cancer Research Institute and UCSF Cardiovascular Research Institute.

When Straubinger left Buffalo, he admits that he had “neither intention nor hope of ever returning.” But nearly ten years later, on a trip home to visit friends and family in 1987, he was quickened by the rising promise of the city—and of the University at Buffalo—and responded to an ad in Science magazine. Since then, Straubinger has been responsible for bringing in an extraordinary volume of research grants; type his name into an Internet search, and the scope of his scholarship speaks volumes on the position of the School of Pharmacy and Pharmaceutical Sciences (SoPPS) as a world leader in the advancement of the pharmacy field.

Liposome carrier

His scientific work focuses on drug carriers and drug delivery, and primary research involves the use of liposomes. Somehow, listening to Straubinger talk about his research at the bench is like hearing the pitch for a remake of the old movie, Fantastic Voyage.

“When you take these dried, purified lipids, and you add water to them, they naturally form enclosed spheres. So when they form these spheres, if you had a drug in the water, then the drug is captured inside,” Straubinger explains matter-of-factly. “These carriers can either capture water soluble molecules in the core, or incorporate greasy poorly soluble molecules in the shell. So they are a very diverse carrier. And it turns out there are certain combinations of drugs with this liposome carrier that can be made to do particular things, like go more selectively into a particular site.”

His earliest research on liposome carriers focused on improving drug therapy for an opportunistic infection associated with HIV/AIDS; the findings of that study, published in the early 1990s, are still cited. Shortly after, Straubinger began research to discover ways to improve the application of Taxol, a drug used to treat ovarian and breast cancer.
Straubinger discovered that Taxol was less toxic to administer, and that chronic toxicity also was lower, when liposomes were used to carry the drug. "Results using an animal tumor model basically showed that if you gave the drug in liposomes, you could give much higher doses and those higher doses could arrest tumor growth."

Although he does not consider himself a "card-carrying PK/Pd scientist," Straubinger concedes that his research falls within the contemporary realm of pharmacokinetics and pharmacodynamics.

"If you would follow the way pharmacodynamics is defined here, all therapeutics with drugs is ultimately pharmacodynamics," he maintains, adding that research with certain drug carriers is now producing FDA-approved products. "This is suggesting that drug carriers can create almost a new and potentially useful mechanism of action out of drugs that don’t necessarily have that mechanism of action."

This logic defines a major direction of Straubinger’s new research, which uses liquid chromatography/mass spectrometry (LC/MS) to identify pharmacodynamic effect biomarkers and other mechanisms by which drug carriers can modulate tumor vascular permeability. Recent bench work targeted the potential of liposome carriers to improve application of the anti-cancer drug doxorubicin.

“We discovered that the formulation may work better against tumors not because the liposomes carry more drugs to the tumors, but because the liposomes get stuck just outside the tumor blood vessels,” he explains.

“Doxorubicin is not known to have this mechanism of action. It’s a cell-killing drug. But by putting it in the liposome, the liposome is carrying it just outside the tumor, and it starts killing off the blood vessel cells. This is a new dosage form. The challenge now is to figure out how this dosage form is working.”

**HIV pharmacotherapy**

At Women and Children’s Hospital of Buffalo, Linda Catanzaro is directing clinical research to figure out how well prescribed cocktail dosages of antiretroviral medications are working on children and adolescents, in an effort to optimize HIV-related pharmacotherapy.

“The role of the pharmacist is actually helping to optimize their therapy. Basically we’re the drug experts working as part of an interdisciplinary team of health-care providers,” says Catanzaro, clinical assistant professor. She also is director of the school’s Pharmacotherapy Information Center (PIC) and the pharmacoinformatics residency program within the Department of Pharmacy Practice.

The PIC is a collaboration between the Department of Pharmacy Practice and the UB Health Sciences Library—and

“I’d like to think that the research I do is helpful in some detectable way to pharmacy as practiced in the clinic.”

Dr. Robert Straubinger
hub of several research initiatives integrating information technology for optimization of clinical pharmacotherapy management.

Born and raised in Buffalo, Catanzaro was married with three small boys when she decided to pursue a pharmacy career. She earned an associate degree in applied science from Niagara County Community College, worked briefly as a gas chromatography analyst, and then enrolled in UB SoPPS.

After receiving her PharmD degree in 2001, Catanzaro worked at supermarket and hospital pharmacies before pursuing a postgraduate residency in HIV informatics. “I felt like I learned so much earning my doctoral degree, I wasn’t actually doing as much with it as I wanted to do,” she says of her first year as a licensed pharmacist. “I realized pretty quickly that extra training in a particular area would put me on a different path in my career, and I wanted to be more involved in actual management of pharmacotherapy.”

Her residency experience connected her to the adult HIV Adherence Program at Erie County Medical Center—which inspired Catanzaro to launch a pediatric/adolescent satellite clinical research program for therapeutic drug monitoring of antiretrovirals at Women and Children’s Hospital.

“Adherence is a huge factor for medication treatment to be successful in any type of disease state. With HIV it’s even more critical.” she explains. Her young patients take at least three antiretroviral medications, and may be taking other prescription drugs.

“We want to make sure the doses are appropriate, based on their height, their weight, and other drugs they may be taking. If the drug concentrations are too low, then the treatment will fail because it won’t adequately suppress the virus. If concentrations are too high, there’s more risk of side effects and toxicity,” she continues, adding that pediatric and adolescent patients present unique challenges to optimizing adherence and individualizing medication therapy. “Drug interactions are of particular concern, and pharmacokinetic and pharmacodynamic data for many of the antiretroviral combinations is sparse in the pediatric population,” she notes.

“We continually assess how much the children understand about their treatment because as they get older it’s very important for them to take the medications correctly on their own. Having a nonjudgmental attitude, providing an environment where patients know that you’re their advocate in terms of helping them to be successful with their medication treatments, whatever they are, is important.”

The role of the pharmacist is actually helping to optimize their therapy. Basically we’re the drug experts,” says Catanzaro.

Research to practice

Catanzaro’s clinical research at Women and Children’s Hospital is being translated through her other work at the SoPPS. Recently, she led several PharmD candidates in researching the published literature in the hospital’s patient population to create a training curriculum for the Center for Development of Human Services in Buffalo.

“This project illustrates one of the ways that novel mechanisms can be utilized to link pharmacotherapy information with clinical practice,” she maintains.

She adds that the PIC is using the HIV Adherence Program as a model to develop similar programs, partnering health-care systems in Western New York with the clinical expertise of the faculty, residents, and students of the Department of Pharmacy Practice.

Straubinger believes that defining clinical applications to optimize pharmacotherapy is both an impetus and inspiration for his bench research.

“Better efficacy, greater effectiveness, less toxicity—these are things that really are relevant to all drug treatments,” he says. “Pharmacodynamic analysis can allow you to capture and describe the drug, show undesirable effects, and find ways to balance those to improve therapy.”

With a wistful laugh, he adds: “I’d like to think that the research I do is helpful in some detectable way to pharmacy as practiced in the clinic.” – Jessica Thorpe
Admissions

A central mission of the Office of Admissions is to advance the diversity and academic quality of the student body. This mission is supported by our ever-increasing enrollment growth. Applications to the doctor of pharmacy program grew 31 percent to 1,375. This increase in applications brought with it a diverse and well-qualified applicant pool. Mean GPA for the class of 2010 was 3.54. As the demand for pharmacists remains high, the school believes future projections will continue to allow a robust applicant pool of highly qualified students.

<table>
<thead>
<tr>
<th>ENROLLMENT (FALL HEADCOUNT)</th>
<th>ANNUAL CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PharmD</td>
<td>BS</td>
</tr>
<tr>
<td>2001/02</td>
<td>394</td>
</tr>
<tr>
<td>2002/03</td>
<td>413</td>
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<tr>
<td>2004/05</td>
<td>448</td>
</tr>
<tr>
<td>2005/06</td>
<td>467</td>
</tr>
</tbody>
</table>

Applications to the doctor of pharmacy program grew 31 percent to 1,375. This increase in applications brought with it a diverse and well-qualified applicant pool. Mean GPA for the Class of 2010 was 3.54. As the demand for pharmacists remains high, the school believes future projections will continue to allow a robust applicant pool of highly qualified students.

ADMISSIONS TABLE INFORMATION

<table>
<thead>
<tr>
<th>Year of Admission</th>
<th>Number of Completed Applications</th>
<th>Number Admitted</th>
<th>Average GPA</th>
<th>Average PCAT Score</th>
<th>Percent (numbers) holding a baccalaureate or higher degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002 (2006)</td>
<td>244</td>
<td>115</td>
<td>3.35</td>
<td>281 *</td>
<td>36% (41)</td>
</tr>
<tr>
<td>2003 (2007)</td>
<td>384</td>
<td>117</td>
<td>3.24</td>
<td>376</td>
<td>49% (57)</td>
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<tr>
<td>2005 (2009)</td>
<td>1,051</td>
<td>120</td>
<td>3.55</td>
<td>395</td>
<td>34% (41)</td>
</tr>
<tr>
<td>2006 (2010)</td>
<td>1,375</td>
<td>124</td>
<td>3.54</td>
<td>395</td>
<td>28% (35)</td>
</tr>
</tbody>
</table>

* SoPPS began to accept other scores (e.g., MCAT) and waive PCAT requirements for UB’s Early Assurance students. The GPA and PCAT scores reflect the entering class, not the entire school.
Degree Programs

PharmD
Program entails two years of pre-pharmacy coursework followed by four years of coursework in the SoPPS. The curriculum consists of courses in the basic biological sciences, clinical sciences, pharmaceutical sciences, and pharmacy practice, capped by a nine-month experiential program.

PharmD offers two dual-degree programs:
• PharmD/JD
• PharmD/MBA

BS in Pharmaceutical Sciences
This four-year science degree program emphasizes the foundational principles of science and research relevant to the pharmaceutical sciences discipline. The program’s comprehensive approach to educating students has led to an outstanding reputation throughout the world.

BS/MS in Pharmaceutical Sciences
The combined degree program, the BS/MS degree, is an accelerated program for academically qualified, currently enrolled undergraduate pharmaceutical sciences students. This program allows students to complete essential pharmaceutical sciences requirements of the bachelor’s and master’s in five years. One degree is awarded: the BS/MS degree.

MS in Pharmaceutical Sciences
Students focus their studies within one of many high caliber areas: drug delivery/development, drug metabolism/transport pharmacometrics and pharmacodynamics, pharmacogenetics, pharmacometrics, and basic pharmaceutical research and analysis.

PhD in Pharmaceutical Sciences
Trainees are given instruction and research training in diverse aspects of drug action and discovery. These areas are examined at the molecular, genomic, biochemical, and clinical levels through an interdisciplinary curriculum that is individualized to the needs of each trainee.
Continuing Education
Department of Pharmacy Practice
Office of Postgraduate Professional Education

FISCAL YEAR 2005–06
UB Programs 12
UB Certificate Programs 1
Home Study Programs 2
Cosponsored 9
Teleconferences (five topic series) 5
(offer to fifty-eight sites throughout the nation)

Total 29

The Office of Postgraduate Professional Education accredited and conducted twenty-nine pharmaceutical continuing education programs over the past twelve months. Programming includes both live and home-study offerings. Five series of teleconferences were offered to fifty-eight different sites throughout the nation. The postgraduate office cosponsors educational activity by accrediting pharmacy programs for nonaccredited providers including interprofessional continuing education.

Certificate programs are designed to expand and enhance predetermined practice competencies through the systematic acquisition of specified knowledge, skills, attitudes, and performance behaviors. The postgraduate professional education office is currently running a certificate program focused in HIV. Future plans include certificate programs in medication therapy management and diabetes.

UB Continuing Education
Programs and Symposia
8/12/05 GI Symposium
9/18/05 Treatment of Depression
10/16/05 Treatment of ADHD in Children and Adults
10/30/05 Treatment of Neuropathic Pain
3/12/06 Pharmacy Law Update 2006
4/7/06 Critical Care Symposium
4/11/06 Update on HIV Treatment: 2006
5/1/06 HIV Pharmacotherapy Continuing Education
5/24/06 Pharmacy Law Review Series
5/25/06 Pharmacy Law Review Series
6/13/06 Management of Adult Asthma

Residency and Fellowship Training Program
The Department of Pharmacy Practice residency and fellowship programs experienced growth of all training programs within the area of general pharmacy practice, as well as many specialty areas.

Programs that received American Society of Health-System Pharmacists (ASHP) accreditation in the 2005–06 academic year:
• Homecare with Emphasis on Hospice and Palliative Care
• Psychiatry
Postdocs 5/06
Pharmaceutical Sciences
Postdoctoral Fellows
Vamsi Addanki
Mechanisms of Nitrate Tolerance
Hea-Young Cho
PK/PD of Drugs in Diabetes
Ying Hong
Population PK/PD Modeling and Simulation of Therapeutic Drugs
Qiang Lu
Antibody PK/PD and New Treatments for Auto-Immune Diseases
Beom Soo Shin
PK/PD of Monoclonal Antibodies
Kamei Tomonori
(Visiting Scholar)
Elucidation of Nitric Oxide Donor Biochemistry Using LCMS
Pawel Wiczling
Modeling of Reticulocyte Aging
Chao Wu
Antidepressant Drug Metabolism in Transgenic and Wild Type Mice
Jun Yang
PK/PD Modeling of Anticancer Drugs
Weiyian Zhang
Construction and Expression of Chimeric Antibody
Baiteng Zhao
PK/PD of Anti-inflammatory Drugs
Pharmacy Practice Residents/Fellows
Ahmed Amer
Fellow
Drug Development/Novartis
Melissa Baxter
Resident
Critical Care
Yseult Brun
Fellow
Drug Development/Novartis
Amy Chen
Fellow
Drug Development/Pfizer
Niamh Higgins
Resident
HIV/AIDS
Stephanie Keller
Resident
Psychiatry
Michelle Lewis
Resident
Primary Care/Buffalo Medical Group
Qing Ma
Fellow
PK/PD
Madonna Mashburn
Resident
Family Medicine
Yomi Ogundele
Fellow
Drug Development/Novartis
Lanre Okusanya
Fellow
Drug Development/Pfizer
Elizabeth Shang
Fellow
Drug Development/Pfizer
Mark Wrobel
Resident
Managed Care/Lifetime Health Medical Center
Julia Zack
Fellow
Drug Development/Novartis
Student Supporters
The following supporters have generously provided funding for various student training programs, allowing our students, residents, fellows, graduate students, postdoctoral students, and scholars the ability to achieve their educational goals.
Amgen, Inc.
Cognigen Corporation
Daiichi Sankyo Pharma, Inc.
Eli Lilly & Co.
Glaxo Smith Kline
Johnson & Johnson
Kapoor Foundation
Lifetime Health Medical Group
Merck & Co., Inc.
Metcare RX Pharmaceutical Service Group, LLC
Novartis Pharmaceuticals Corporation
Pfizer Global Research and Development Corporation
Schering-Plough Corporation
Commencement Awards

Lilly Achievement Award
Lori Podkulski

Phi Lambda Sigma of Achievement, Chapter Member of the Year Award
Kristen Nagy

GlaxoSmithKline Patient Care Award
Cindy Amabile

Michael E. Crawford Award
Alan Frydrychowski

Eino Nelson Award
Shui Hang Hong

UB Pharmacy Alumni Association Award
Scott Monte

David E. Guttman Award
Jessica Haas

Renee A. Dederich Award
David Hutchinson

Francis P. Taylor Award
Cassie Grady

APHA-ASP Mortar & Pestle Professionalism Award (McNeil)
Lori Podkulski

Robert H. Ritz Award
Bridget Barvian

National Community Pharmacists Association Outstanding Student Member Award
Michael Sterner

Roger Mantsavinos Award
Bridget Barvian

The Lori Esch Memorial Award
Linda Ghobrial

The Merck Award
Crystal Francoforte
Sadat Yorose
Bridget Barvian

ASP National Patient Counseling Award
Kristen Nagy

Roche Pharmacy Communications Award
Linda Ghobrial

Robert M. Cooper Memorial Award
Crystal Francoforte

Mylan Pharmaceutical Excellence in Pharmacy Award
David Hutchinson

Facts and Comparisons Award of Excellence in Clinical Communication
Noel Forrett

Roy M. Barr Award
Bridget Barvian

Western New York Society of Health-system Pharmacists Award
Karen Kuczmarski
Joanne Haremza

Samuel J. Buda Award
Darcie Sullivan

Pharmacists’ Society of the State of New York Award
Betsy Bender

Natural Medicines Comprehensive Database Recognition Award
Karen Kuczmarski

McKesson Leadership Award
Kristina Palano

NYS Chapter of the American College of Clinical Pharmacy Research Award
Elizabeth Hudzinski

TEVA Pharmaceuticals USA Outstanding Student Award
Shui Hang Hong

Margaret C. Swisher Memorial Award
Cindy Amabile

A.B. Lemon Memorial Award
Amy Partridge

ASP Certificate of Recognition
Karen Kuczmarski

The Acute Care Professional Experience Program Award
Crystal Francoforte

The Ambulatory Care Professional Experience Program Award
Jamie McPoland

Pharmacists’ Association of Western New York Student Leadership Award
Terrence Attea

Perrigo Award of Excellence in Non-Prescription Medication Studies
Kevin Harbison

The Kelli Jordan Memorial Award
Jenny Yang

The Excellence in Teaching Award
Sathyamangalan Balasubramanian
2006 Who's Who Among Students in American Universities and Colleges

Cindy Amabile
Terrence Attea
Bridget Barvian
Betsy Bender
Jennifer Bonafede
Kristy Wood
Clara Fayomi
Crystal Francoforte
Linda Ghobrial
Lekisha Griffin
Joanne Haremza
Anthony Jarkowski III
Karen Kuczmarski
Tamara Lee
Bhavin Mistry
Scott Monte
Kristin Nagy
Kristina Palano
Amy Partridge
Lori Podkulski
Christine Renzi
Lisa Rubin
Heather Sodaro
Holly Strickland
Darcie Sullivan
Kristin Veley
Jenny Yang
Christopher Zawadzki

Student Achievements

Awards/Recognitions
Katie Sonich – Class of 2008
2006 Walmart Home Office Internship
Danielle Patti – Class of 2008
NACDS Foundation Pharmacy Student Scholarships
Bradley Hoffman – Class of 2007
Armed Forces Health Professions Scholarship
Kerrie Peterson – Class of 2007
American Pharmacists Association – Academy of Students of Pharmacy Region 1 Delegate
Kwaku Marfo – Class of 2007
Region 1 Representative to the American Pharmacists Association – Academy of Students of Pharmacy Nominating Committee
Pat Comerford – Class of 2007
University at Buffalo, Patient Counseling Winner
Alister A. Rubenstein – Class of 2009
JR COSTEP Summer Internship in Zuni, New Mexico
Shelley Wilson – Class of 2009
UB 2006 Summer Abroad Program at the Universidade Presidente Antonio Carlos (UNIPAC) in Health and Rehabilitation

Karen Kuczmarski and Crystal Francoforte – Both Class of 2006
American Society of Health-Systems Pharmacists Clinical Skills Competition 2005
Amanda Boeckel
United States Public Health Service Excellence in Public Health Pharmacy Practice Award

Excellence in Pharmaceutical Sciences 2005

Class of 2008
Dana Ruth Anderson
Won-Jin Choi
Nicholas Michael Clemente
Michael Cook
Libby Czajkowski
Lisa Chatwood Garrity
Michael Thomas Guskey
Binh Dat Ha
Nicholas Jennings
Jennifer Hedrick
Julie Mae Houseknecht
Andrea Keck
Deborah Ann Liana
Devon Marks
Amy Martin
Benjamin Rok
Pu Yi Tam
Marina Wu
Stephen David Yeager

Class of 2007
Michelle Rene Foster
Jodie Lee Grillo
Alison Ann Hynes
Kari Amber Mergenhagen

2005–06 SoPPS Degree Recipients

Bachelor of Science in Pharmaceutical Sciences

June 2006
Faaiza Ansari
Ruthanne Chiotti
Melanie Ciolek
Kimberly Demmans
Joseph Hooley
Jason Jarmusz
Win Kwok Leung
Matthew Murphy
Hala Sallaj
Craig Smith
Amada Spring
Jeffrey Suppon
Tuyet Tran
James Tutko
Patricia Zagst

Bachelor of Science/Master of Science in Pharmaceutical Sciences

June 2006
Jessica Haas
Raj Kale
Wing Ki Lam

Master of Science in Pharmaceutical Sciences

September 2005
Huai Wu

Doctor of Pharmacy

February 2006
Sharon Ganatra
Johnny Lau
Jason Mummm
Gregory Thurber

June 2006
Dorothy Albright
Jill Almansberger
Cindy Amabile
Kristina Atencio
Terrence Attea
Bridget Barvian
Joel Begert
Joseph Belair
Betsy Bender
Harri Berkoh-Asamoah
Andrea Bialek
Jennifer Bonafede
Christopher Bowers
Stephanie Brian
Andrew Brown
Alicia Burger
Amanda Caruso
Holly Coe
Aaron Cisceri
Danielle Dahulich
Katherine Doyle
Lisa Dumuhosky
Clara Fayomi
Cara Felton
Samuel Fianko
Noel Forrett
Crystal Francoforte
Alan Frydrychowski
Rachel Galement
Leah Gangl
Linda Ghobrial
Tracy Goodwin
Cassie Grady
Lekisha Griffin
Kevin Harbison
Joanne Haremza
Yoriko Harigaya
Doctor of Philosophy in Pharmaceutical Sciences

September 2005
Rong Deng
Yan Ji

February 2006
Feng Jin
Vivek Purohit
Karthik Ramani
Mahesh Samtani

June 2006
Indranil Bhattacharya
Research and Training

Create cutting-edge research that enhances the body of knowledge needed for professional education, health-care delivery, and advancement of sciences that will improve the health and wellness of the global community.

**Department of Pharmacy Practice: Annual Report Summary 2005–06**

**New Faculty**

Patty Havard, PharmD, was appointed associate professor and division head, pharmacotherapy research programs, and comes to us from Ohio State University. Havard’s clinical research is in infectious diseases and HIV treatment during pregnancy.

Qing Ma, PhD, was appointed research assistant professor after recently completing a pharmacometrics fellowship. Ma’s research is focused on therapeutic drug monitoring and pharmacogenomics for therapeutic individualization.

Naomi Boston, PharmD, was appointed clinical assistant professor. Boston completed her HIV specialty residency and fellowship at ECMC in Immunodeficiency Services. Boston is the coordinator of the HIV Adherence Pharmacology Program and has research interests in therapeutic drug monitoring and HIV resistance.

Mark Wrobel, PharmD, was appointed clinical assistant professor after completing his residency in pharmacy practice, with an emphasis in managed care, at the Lifetime Health Medical Group.

**New Partnerships**

The Buffalo Medical Group has established a pharmacotherapy research program at its Buffalo and Williamsville practice sites. Nicole Paolini is the director of that program and the pharmacy residency program.

Erin Slazak is the director of the pharmacotherapy research program at the Lifetime Health Medical Group centers. Slazak is investigating new practice models for pharmacists in managed care settings and directs the residency program.

A new collaboration with the Independent Health Association is led by Linda Catanzaro, with professors Peter Brody, Fred Bennies, and Karl Fiebelkorn, to investigate population approaches to medication management utilizing prescription claims.

The Pharmacotherapy Information Center is collaborating with MetCare Specialty Pharmacy programs and the Sheehan Memorial Hospital to examine medication management strategies for the primary care center.

Rite Aid and Eckerd pharmacies have initiated a collaboration to establish a network of pharmacists with a UB Certificate in Medication Management. This network will be teamed with health insurance plans to identify community pharmacists with expertise in medication management.

Walgreens has partnered with the HIV Pharmacotherapy Network to enroll seventy pharmacists to receive an online continuing education program to provide pharmaceutical care for HIV-infected patients. The certificate program is directed by Linda Catanzaro and Naomi Boston.

GlaxoSmithKline initiated a two-year drug development fellowship. The program will train individuals in applied pharmacokinetics and pharmacodynamics. These partnerships have broadened the variety of health-care settings in which our students and residents receive training during their programs.

**Scholarships and Grants**

Our faculty was selected from a nationally competed process to develop a resource paper for the Council on Credentialing in Pharmacy (CCP). The white paper, entitled “Scope of Contemporary Pharmacy Practice: A Framework for Professional Credentialing Roles, Responsibilities and Functions of Pharmacists and Pharmacy Technicians,” was authored by Nicole Paolini, Robert Wahler, Cori Wyman,
Lee Klevens, Karl Fiebelkorn, Susan Ksiazek, Tammie Lee Demler, Edward Bednarczyk, Cindy Amabile (P4 student at the time), and Marc Luxemburg (P4 student at the time). In addition, two of our Pharmacy Practice residency programs (Family Medicine, Managed Care) received ASHP accreditation this year, increasing the total number of residencies to seven.

The department faculty was successful at competing for investigator-initiated grants. Some examples include: the Pharmacotherapy Research Center Core Analytical Laboratory (CAL), along with Alan Forrest, Robert DiCenzo, and Gene Morse, were awarded a seven-year grant as part of the new NIH-sponsored National/International AIDS Clinical Trials Group Laboratory Network. The lab is managed by Robin DiFrancesco who also coordinates the national quality assurance program for the ACTG Pharmacology Laboratories.

The CAL also supported research in the areas of neurology, transplantation immunosuppression, and oncology. DiCenzo received a grant entitled “Pharmacokinetics of Lopinavir in Plasma and CSF of HIV-Infected Adults from Abbott Laboratories.”

Curtis Haas received a grant from the Society of Critical Care Medicine to conduct a clinical trial to evaluate the effect of inhaled tobramycin in mechanically ventilated patients with tracheobronchitis.

The faculty continued to enroll patients into a multi-site protocol entitled “Evaluation of Patient-Centered Pharmacotherapy Management and the Impact on Health and Economic Outcomes.” More than 300 patients have been enrolled at sites, including the Lifetime Health Medical Centers, the Buffalo Psychiatric Center, and the Department of Family Medicine at the Erie County Medical Center. The protocol examines outcomes associated with the integration of a pharmacist into medication management.

Overall, the Department of Pharmacy Practice continues to grow and expand its education and research programs. The doctor of pharmacy curriculum and postdoctoral residencies and fellowships have emerged as important mechanisms for facilitating new practice paradigms and creating environments for conducting research that will transition pharmacy practice to meet the needs of an aging society. As needs for new treatments increase along with strategies to achieve positive outcomes for patients, the department is recognized as a national leader in fostering the role of the pharmacist as the medication expert in a multidisciplinary approach to health care.

### Department of Pharmaceutical Sciences:
#### 2005–06 Annual Report

Our department has a well-established, international reputation for a tradition of excellence in teaching and research, and is well positioned to expand its prowess in pharmacokinetics, pharmacodynamics, and protein therapeutics. Moreover, the department is a leading academic institute for cutting-edge research and teaching in pharmacogenomics.

The department’s strengths lie in biological applications of pharmaceutical sciences to traditional small molecules, as well as biotechnology products, particularly areas of systems pharmacology (pharmacokinetics, pharmacodynamics, pharmacogenomics), drug delivery, and development of new therapeutic approaches utilizing mechanistic studies with tools of genomics, proteomics, computation, and bioinformatics.

A major event during the year was the implementation of the UB-Pfizer Strategic Alliance and establishment of a Center of Excellence in Pharmacokinetics and Pharmacodynamics. With funding of $1,500,000 for the first year, the alliance provides the means to hire two new assistant professors, partial funding of two research faculty members, addition of four new postdoctoral fellows, and six new doctoral students, and includes funding of $300,000 in new equipment. The search committee brought in several excellent candidates for faculty positions.
A large group research conference was held at Pfizer in June to plan collaborations in the areas of protein therapeutics, cancer chemotherapy, anti-infective chemotherapy, and diabetes/metabolic syndrome. A smaller meeting was held in Buffalo in August.

The department has an exceptional faculty at a range of academic levels with highly productive, largely NIH-funded research programs and some corporate support. The school and department rank second in the U.S. in National Institutes of Health research funding per PhD faculty member, according to the latest report on pharmacy faculty from the American Association of Colleges of Pharmacy (AACP).

The departmental faculty brought in or shared more than $2.5 million in individual and multidisciplinary grants. Donations of $145,000 for graduate student training were provided by Merck, Eli Lilly, Sankyo, and Amgen, with continued graduate student support provided by the Kapoor Foundation. Because of the strong demand for our graduates, our department receives fifteen-fold more applications for our graduate program and fellowship positions than we can accept. We have grown to mentoring thirty students in the PhD program, fourteen in the BS/MS or MS programs in pharmaceutical sciences, and had eight postdoctoral fellows or visiting scientists.

The Liquid Chromatography Tandem Mass Spectroscopy Laboratory received equipment and funds for enhancements made possible by a shared instrument grant for $319,000 from the National Institutes of Health. This support improves our capacity for further research in diverse areas requiring sensitive and specific analyses. The new Linear Ion Trap instrument will enable better quantitation of drug metabolites and biotechnology products.

An active research seminar program was offered with fifty presentations by local and visiting scientists. Thorir Bjornsson, vice president for pharmacology and translational medicine at Wyeth Laboratories, was selected for the 2005 Gerhard Levy Distinguished Lectureship in Pharmaceutical Sciences. Other notable speakers during the academic year were: Daniel Salazar of Daichi Sankyo Pharmaceutical Company, Victor Wroblewski of Eli Lilly, Lawrence Yu of the Food and Drug Administration, Larry Weinkers of Amgen, Clark Anderson of Ohio State University, Darrell Abernethy of the National Institute on Aging, Jeffrey Stevens of Pfizer, and Colin Pillai of Novartis. David Smith of the University of Michigan was selected by the graduate students for the annual pharmaceutics alumnus lecture.

Our faculty was active in dissemination of our scientific accomplishments and knowledge. We had seventy-four research articles or book chapters published and gave ninety-seven seminars, lectures, or research presentations at various scientific meetings, university, and industrial venues. Five faculty members serve as editors of journals and many participate on numerous journal editorial boards and NIH study sections.

The department has offered annual courses in pharmacokinetic-pharmacodynamic modeling, WinNonlin for pharmacodynamics, and population pharmacokinetic modeling for visiting scientists from the pharmaceutical industry, academia, and the Food and Drug Administration each year in May. Due to large demand, the PK/PD course was given a second time in June. Similarly, the department offers an annual summer workshop in molecular genetic methodologies for pharmaceutical sciences at UB and at other institutions.

The department is poised for further growth of its research and training programs with additional faculty and graduate students and expanded capabilities in the area of protein therapeutics. A series of planning meetings were held to implement participation in UB’s New York State Center of Excellence in Bioinformatics and Life Sciences.
Special Honors for Faculty Members

William J. Jusko, professor and chair, was given the Volwiler Research Award from the American Association of Colleges of Pharmacy, and was named the Joseph Swintosky Distinguished Lecturer by the University of Kentucky.

Marilyn Morris was appointed chair-elect of the pharmacokinetics, pharmacodynamics, and drug metabolism section of the American Association of Pharmaceutical Scientists. She was also appointed associate dean, graduate and postgraduate education, the Graduate School, University at Buffalo.

Faculty Grants Awarded

SoPPS Faculty Grants Awarded
July 1, 2005 – June 30, 2006

Pharmaceutical Sciences

Joseph Balthasar
University of Michigan
*Triggered Local Release of Active Thrombolytic Agents*
*PTD-Mediated Protein or Drug Delivery for Cancer Therapy*

Daniel Brazeau
Louisiana University Marine Consortium
*Genetic Analysis Services University of Michigan*

Ho-Leung Fung
National Heart, Lung, and Blood Institute
*Organic Nitrate Metabolism, Tolerance and Action*

William Jusko
National Institute of General Medical Sciences
*Mathematical Models in Pharmacodynamics*

Pfizer, Inc.
*Center of Excellence in Pharmacokinetics and Pharmacodynamics*

Marilyn Morris
Susan G. Komen Breast Cancer Foundation
*Multiple Flavonoids in the Treatment of Multidrug Resistance*

Murali Ramanathan
National Multiple Sclerosis Society
*Brain-Derived Neurotrophic Factor in Multiple Sclerosis*

Robert Straubinger
National Cancer Institute
*Drug Carrier Modulation of Blood/Tumor/Brain Permeability*

Aiming Yu
Food and Drug Administration
*Correlation of Permeability and Metabolic Stability and the Expansion of the Biopharmaceutics Classification System to Predict in Vivo Pharmacokinetic Performance*
Pharmacy Practice

Robert DiCenzo
American College of Clinical Pharmacy
Optimizing Adjuvant Chemotherapy in Obese and Overweight Women

University of Rochester
Pharmacokinetics of Lopinavir in Plasma and CSF of HIV-Infected Adults

Curtis Haas
University of Rochester
Collaborative Program in Pharmacotherapy Research, Practice and Clinical Education Relative to Critically Ill Patients

American College of Clinical Pharmacy
Kinetics and Dynamics of IV Enoxaparin in the Trauma ICU

Gene Morse
National Institute on Drug Abuse
TDM and Drug Interactions in HIV-Infected Substance Abusers

Drug Interaction Studies of Buprenorphine and HAART in HIV-Infected Patients

Social and Scientific Systems, Inc.
AACTG Pharmacology Support Laboratory

AACTG: Pharmacology Laboratory QA/QC

University of Rochester
Adult Therapeutic Clinical Trials Program for AIDS

Walt Schroeder
Massachusetts College of Pharmacy
Assessment of Eptifibatide Dosing in Patients with Renal Dysfunction

Patrick Smith
Hoffmann-La Roche, Inc.
The Effect of Co-Administration of Boosted Saquinavir and Methadone on the PK/PD of Methadone and the PK of Ritonavir and Saquinavir

GlaxoSmithKline
A phase 1, open Label, 2-period Single Sequence, Drug Interaction Study to assess Steady-State Plasma Methadone Enantiomer PK Following Co-Administration of Methadone QD with Fosamprenavir 700, g BID and RTV 100 mg QD in Opiate-Dependent HIV Seronegative, Adult Subjects
## Research and Training Awards
### Fiscal Year 2005–06

### Pharmaceutical Sciences

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Program Type</th>
<th>Current Period</th>
<th>Project Period</th>
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<tbody>
<tr>
<td>A. Awad and A. Ramanathan</td>
<td>National Multiple Sclerosis Society</td>
<td>New Research</td>
<td>$8,800</td>
<td>$8,800</td>
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<td>J. Balthasar</td>
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<td>University of Michigan</td>
<td>New Research</td>
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<td>J. Blanco</td>
<td>National Institute of General Medical Sciences</td>
<td>Continuation Research</td>
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<td>D. Brazeau</td>
<td>Louisiana University Marine Consortium</td>
<td>New Research</td>
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<td>J. Canty and J. Qu</td>
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<td>National Institute of General Medical Sciences</td>
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<td>W. Jusko</td>
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<td>D. Mager</td>
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<td>Susan G. Komen Breast Cancer Foundation</td>
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<td>National Cancer Institute</td>
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<td>National Cancer Institute</td>
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<td>Food and Drug Administration</td>
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<td>A. Zhang</td>
<td>National Science Foundation</td>
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<td>A. Zhang</td>
<td>National Institute of General Medical Sciences</td>
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<td>A. Zhang</td>
<td>National Science Foundation</td>
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### Pharmaceutical Sciences Totals

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<td>----------------------------------------------</td>
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<tr>
<td>R. DiCenzo</td>
<td>American College of Clinical Pharmacy</td>
</tr>
<tr>
<td>R. DiCenzo</td>
<td>University of Rochester</td>
</tr>
<tr>
<td>C. Haas</td>
<td>University of Rochester</td>
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<tr>
<td>C. Haas</td>
<td>American College of Clinical Pharmacy</td>
</tr>
<tr>
<td>G. Morse</td>
<td>Virginia Commonwealth University</td>
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<tr>
<td>G. Morse</td>
<td>National Institute on Drug Abuse</td>
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<td>G. Morse</td>
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<td>G. Morse</td>
<td>National Institute on Drug Abuse</td>
</tr>
<tr>
<td>G. Morse</td>
<td>University of Rochester</td>
</tr>
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<td>G. Morse</td>
<td>Social and Scientific Systems, Inc.</td>
</tr>
<tr>
<td>G. Morse</td>
<td>Social and Scientific Systems, Inc.</td>
</tr>
<tr>
<td>W. Schroeder</td>
<td>Massachusetts College of Pharmacy</td>
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<tr>
<td>P. Smith</td>
<td>GlaxoSmithKline</td>
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<tr>
<td>P. Smith</td>
<td>Hoffmann-La Roche, Inc.</td>
</tr>
</tbody>
</table>

**Pharmacy Practice Totals**

$2,009,414 $4,066,175

**School Totals**

$6,617,913 $20,968,354
Pursue innovation, identify solutions, and present results to enhance the local, national, and international leadership of SUNY, UB, and the SoPPS.

**Scholarship**

**Pharmaceutical Sciences Publications: 2005–06**

**Balasubramanian, S.V.**  


**Balthasar, Joseph P.**  

**Krzyszanski, Wojciech**  


**Mager, Donald E.**  


Morris, Marilyn E.


Qu, Jun


Ramanathan, Murali


Straubinger, Robert M.


Yu, Aiming


**Pharmacy Practice Publications: 2005–06**

**Bednarczyk, Edward**


**Catanzaro, Linda**


**DiCenzo, Robert**


**DiFrancesco, Robin**


**Forrest, Alan**


**Haas, Curtis**


Ma, Qing


Morse, Gene


Schroeder, Walter

Slish, Judianne

Smith, Patrick


Tornatore, Kathleen


Tsuji, Brian


Wahler, Robert


New Technology Disclosures/Patents

<table>
<thead>
<tr>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>Method and Composition of Less Immunogenic, Long-Circulating Protein-Lipid Complexes</td>
<td>Balu-Iyer, Sathy, Pharmaceutical Sciences Miclea, Razvan D., Pharmaceutical Sciences Peng, Aaron, Pharmaceutical Sciences Straubinger, Robert, Pharmaceutical Sciences</td>
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<tr>
<td>Bridging Centrality: A Concept and Formula to Identify Bridging Nodes in Scale-free Networks</td>
<td>Ramanathan, Murali, Pharmaceutical Sciences</td>
</tr>
<tr>
<td>Method for Identifying Drug Targets in Biological Networks</td>
<td>Ramanathan, Murali, Pharmaceutical Sciences</td>
</tr>
<tr>
<td>Time-Dependent Immunodynamic Assessment to Chronic Immunosuppression</td>
<td>Tornatore, Kathleen, Pharmacy Practice</td>
</tr>
</tbody>
</table>
Community Service

To build a community of discovery and care requires significant outreach. All members of the SoPPS involve themselves in service to the community in a variety of ways.

Our students assist community members through their associations with many professional organizations, as well as fraternities and other social organizations. Students serve meals to needy families and raise funds for charitable organizations.

Health education is provided through wellness clinics and political activism, with Pharmacy Day in Albany being a primary way to achieve positive change through legislative channels. This annual effort is a time for students, faculty, and practicing pharmacists to address our New York State legislators about pharmacy health-care issues impacting our local and regional community.

Patient advocacy is a pervasive theme at the school and there is no better way to have broad impact on the community we serve than through lobbying and activism for optimal patient care and health outcomes. Current legislative issues having major impact on health outcomes include giving pharmacists in New York State the ability to administer immunizations, Medicare Part D, and the general ability of pharmacists in New York State to have an increased clinical presence in health-care delivery.

SoPPS staff give of their time through various State Employees Federated Appeal fund-raisers: bake sales, “Enjoy the City” book sales, and 50/50 split clubs, as well as our annual holiday family fund-raiser.

The SoPPS believes strongly in giving back to the community that supports us. We will continue to assist many different community support programs and activities in the future.
2005–06 Alumni Association Activities

September 2005: Alumni Reunion Weekend activities were held September 23–24. Friday evening activities included a cocktail reception and class dinners recognizing the classes of 1955, 1980, and 1995. Saturday activities included Breakfast with the Dean and tours of UB, including the school. The annual dinner dance was held Saturday evening at the Buffalo Niagara Marriott. The school’s P4 students were inducted into the Alumni Association via our special candlelight induction ceremony.

January 2006: Grants in Aid Program. Thanks to your dues membership payments, the Alumni Association is still able to offer annual need-based grants in the amount of $500 to six pharmacy students. Our 2005–06 recipients were Colleen Kingsbury, Michelle Foster, Alicia Burger, Lisa Dumuhosky, Suetping Lau, and Anita Robek.

February 2006: Wine, Cheese and Dessert Reception. This annual event was held at the Jacobs Executive Development Center and had very strong attendance from alumni, as well as faculty and students. Attendees were treated to a delectable assortment of food and beverages and had the opportunity to purchase raffle tickets for a variety of Chinese auction items, such as overnight getaways and relaxation baskets. Proceeds benefited the Alumni Association’s Grants in Aid Program.

April 2006: The school’s spring awards ceremony gives the Alumni Association the opportunity to recognize the winners of the Orville C. Baxter and the Willis G. Gregory awards. Congratulations to 2006 award winners: Susan Jay ’77, Willis G. Gregory Award recipient, and Thomas Smith ’84, Orville C. Baxter Award recipient.

April 2006: UB’s Alumni Association and the SoPPS Alumni Association joined in a collaborative student outreach program called Dinner with 12 Strangers, a nationally recognized program in which six alumni and six students come together over a meal and leave with new friendships and connections. Gayle Brazeau ’89 hosted alumni and healthcare career undergraduates for an informative evening of career advisement and guidance.

May 2006: The Alumni Association was pleased to bestow its 2006 Commencement Award to Scott Monte, Class of 2006. The association also continued to support many other student activities, such as pizza lunches, guest speakers, dances, and many other alumni outreach activities.

Alumni Relations

The support of our alumni community has been invaluable in the various student events and outreach efforts that have contributed to the continued success of our school.
It takes generosity and commitment to build a community of discovery and care. We are grateful to our alumni, friends, faculty, and staff whose support is critical to our school’s continued success.

Honor Roll of Donors

We gratefully acknowledge the alumni, corporations, foundations, friends, and parents who made gifts to the school between July 1, 2005 and June 30, 2006. Your continuing support allows us to train and nurture the pharmacists, clinicians, pharmaceutical scientists, and community leaders of tomorrow.

Willis G. Gregory Society

The Willis G. Gregory Society recognizes donors who have made an annual gift of $1,000 or more to the School of Pharmacy and Pharmaceutical Sciences during the fiscal year. The society is named in honor of the school’s admired dean, who served from 1890 until his retirement in 1936. Dr. Gregory was considered a visionary for his progressive views on pharmacy practice and is credited with transforming the pharmacy profession. 

$50,000 – $99,999
- Amgen, Inc.
- Gilead Sciences, Inc.
- Merck & Co., Inc.
- Metcare RX Pharmaceutical LLC
- Pfizer Global Research & Development Corporation

$25,000 – $49,999
- ACCP Research Institute
- Eli Lilly and Company Foundation
- Excelus Health Plan, Inc.
- GPI, Inc.
- HealthNow New York Inc.
- Independent Health Association, Inc.
- DaicichiSankyo Pharma Inc.

$10,000 – $24,999
- American College of Clinical Pharmacy
- Chugai Pharmaceuticals Co., Ltd.
- Eli Lilly and Company

$5,000 – $9,999
- CVS Pharmacy
- Kinney Drugs, Inc.
- Margaret Hempling
- McGlynn ‘82
- NACDS Foundation

Univera Healthcare
Upstate New York Transplant Services
Walgreens

$1,000 – $4,999
- Gordon L. Amidon ’67
- Wayne & Lorraine Anderson
- Avantix Laboratories, Inc.
- Joseph L. Balwierzczak ’83
- Thomas & Maria Bardos
- Allen Barnett ‘65
- Carol H. Barr ’55
- Richard A. Battaglia ’53
- James ’90 & Jamie Baxter ’85
- James R. Buckley ’53
- Joseph A. Chazan ’56
- Vince & Jeanne Christ ’53
- Cognigen Corporation
- Margaret Crimaldi Quinn ’60
- Donald ’79 & Lynn Daly ’79
- Kiran B. Dole ’03 *
- Eckerd Corporation
- Harold Ertman ’53
- Karl ’78 & Tina Fiebelkorn ’79
- Ho-Leung & Sun-Mi Fung
- Melzer ’52 & Virginia Forster
- Stephen ’81 & Carolyn Giroux
- Carol A. Gloff ’75
- Stephen J. Groth ’92
- Daniel A. Herrmann ’52
- Wai-Yung Florence Ho ’75
- Barbara J. Hole
- Gerald T. Hooley ’52

* Graduates of the Last Decade (GOLD) Willis G. Gregory Members

$100,000+
- Daniel & Gayle Brazeau ’89
- CPL Associates, L.L.C.
- Robert ’59 & Sharon Miller
- National Multiple Sclerosis Society
- Novartis Pharmaceuticals Corporation
- The Estate of Henry A. Panasci Jr. ’52

1886 Club

Honoring the generosity of our alumni and friends who recognize the historical significance of the school through their gifts of $500 – $999 annually.

- Charles R. Boshart ’58
- Raymond & Mary Anne Dannenhoffer ’87
- Sherwood Deutsch ’55
- Kenneth J. Dow ’80
- Ronald P. Evens ’69
- Fillmore Pharmacy Inc.

- Alan E. Friedman ’73
- Jeffrey R. Koup ’74
- Hung V. Le ’73
- Ruth S. Lindblad ’48
- Moden-Gioux Inc.
- Svein Oie ’75 & Barbara Woodruff

- Thomas M. Quinlan ’67
- SoPPS, Class of 2006
- Joseph J. Sidoti ’95
- Irving ’55 & Marilyn Sultz
- Howard S. Weintraub ’71
- Lloyd R. Whitfield ’83
- Christopher Zusi ’79
"I have been a Willis G. Gregory member for the past 19 years. I feel like it is my moral obligation to give back to the school that allowed me to have success in so many different areas of my life."

Gerald Hooley ’52

THE HAYES SOCIETY

The Hayes Society honors individuals who have made provisions to the School of Pharmacy and Pharmaceutical Sciences through a bequest or other method of deferred giving.

Anonymous
Thomas J. Bardos
Edward ’52 & Jean Frank ’54
Robert ’59 & Nina Doran ’53
Pamela Maude Emerson ’52

Vincent Esposito ’75
Edward ’52 & Jean Frank ’54
Joel Goodrich ’59
Jan ’59 & Rose Mary Madejski ’59

Robert ’59 & Sharon Miller
DeWitt Niles ’62
Robert Ravin ’57
Irv Sultz ’55
Howard Wright Jr. ’32

MORTAR AND PESTLE CLUB

Honoring alumni and friends who contribute $250 – $499 annually.

Akron Pharmacy
Linda Moden Andrews ’97
Bailey Prescription Center, Inc
Diane M. Bassanello ’83
Beaver Pharmacy
Spencer G. Bickel ’56
Rodney R. Brooks ’92
Rebecca A. Bubel ’94
Cass M. Candell ’57
Jolie B. Colonna ’95
Cy’s Elma Pharmacy
Paul H. Dalecki ’73
Michael V. Darby ’80
Elickottville Pharmacy
Ethan Allen
Thomas ’70 & Marijo Foster
Nadine Francis ’04
Sylvia Giordano ’50
William R. Glave ’70
Sylvie L. Gregoire ’86
Gail J. Guzzo ’70
Steven B. Hansel ’93
Highgate Professional Pharmacy, Inc.
Holland Pharmacy, Inc.
Eugene A. Hughto Jr. ’81
J. Rutowsi & Sons, Inc.
James S. Johnson ’39
Kenmore RX Center
Dennis & Hui Kimko ’95
Gayle L. Klein ’91
Janet M. Leung ’97
Stephen M. Liebowitz ’74
Jeanne Adair Lill ’75
Brian S. Loucks ’86
Claire Buckley Mackiewicz ’80
Diane L. Mangus ’66
Suresh A. Marathe ’68
William S. McMahon ’52
James P. Miles ’70
Sandeep ’88 &
Marlene Modi ’88
Moog, Inc.
Marilyn E. Morris ’84
Gary L. Mosher ’67
Niagara Apothecary
Omnicare
Gary W. Osborne ’79
Parkview Health Services Inc.
Petersen Drug Company of Newfane
Pharmacists’ Association of Western New York
Mary R. Poppendeck ’78
Prize’s Pharmacy
Margaret M. Rapp ’71
Diana J. Richardson ’82
Doreen A. Robinson ’88
Mario L. Rocco Jr. ’81
James Q. Rose ’81
Lisa Marie Ryzska ’92
Nancy B. Sager ’83
Carmen A. Salvemini ’72
Ronald ’81 & Sandra Schifano ’80
Thomas F. Smith ’84
Sprout’s Drug Store, Inc.
John M. Stahl ’78
Craig K. Svensson ’85
Todamar, Inc.
2121 Main Street
Pharmacy, Inc.
Washington Prescription Center Inc.
Gerald N. Wemple ’93
Karen M. Whalen ’86
John J. Whitehead ’62
Sum-Yee Woo ’77
Fawze M. Zaid ’03

Fawze M. Zaid ’03
“The outstanding graduate program at the school prepared me for a successful career. The rigorous standards of performance, which the faculty expected from its students and of themselves, positioned my colleagues and me for success. I believe the program produces graduates who are capable of ‘making a difference’ in people’s health and in their lives, and I feel honored to provide my financial support to the efforts of the school.”

Howard Weintraub ’71

Jeanette L. Altavela ’93
Geraldine L. Anderson ’82
Paul J. Badore ’92
Teresa T. Baldassaro ’91
Robert L. Barr ’39
Carrie Bartolotta ’00
Robert W. Begert ’72
Jamie P. Belcastro ’95
Terrance J. Bellnier
Fred & Cindy Bennes ’79
Donald R. Schneider ’72
David F. Smith ’75
Kevin ’92 & Elizabeth Sowinski
Michele E. Spence ’96
Walter C. Stanton ’52
Susan E. Stark ’88
Nathan R. Strahl ’72
Thomas J. Streeter ’80
Pingzhong Tan ’94
David M. Tober ’88
James A. Tobolski ’87
James N. Tyson ’59
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Honoring alumni and friends who contribute $100 - $249 annually.
“The School of Pharmacy and Pharmaceutical Sciences and the students in the profession are important to me. I volunteer and give back because others did the same for me when I was in school.”

Debra Ley Porter ’95
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For more information, contact Leigh Yates, director of development, at (716) 645-3432 or e-mail ltyates@buffalo.edu.

This report includes donors who made gifts and planned gift commitments between July 1, 2005 and June 30, 2006. Every effort has been made to ensure the accuracy of the information. In the event of an error or omission, please contact the UB SoPPS Development Office at 333 Hochstetter Hall, Buffalo, NY 14260-1200, or call (716) 645-3432 so that we may correct our records.
“Dean Lemon was always an advocate for students in obtaining scholarships. Since I received a scholarship to attend pharmacy school for four years, I thought that it was only appropriate to do it for someone else.”

Rose Mary Madejski ’59

STUDENT SCHOLARSHIP SUPPORT

Thank you to the many donors who have established scholarship endowments and given annual gifts that provide much needed support to fund our highest priority—helping bright, hard-working students fulfill their dreams of obtaining their pharmacy degrees. During the 2005–06 academic year, 264 students received academic and need-based scholarships totaling $352,527.

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S t u d e n t s ’ S c h o l a r s h i p s u p p o R t

Thank you to the many donors who have established scholarship endowments and given annual gifts that provide much needed support to fund our highest priority—helping bright, hard-working students fulfill their dreams of obtaining their pharmacy degrees. During the 2005–06 academic year, 264 students received academic and need-based scholarships totaling $352,527.
Thank you to all of our sponsors who participated in the Third Annual Student Scholarship Golf Tournament. We received more than $27,000 in tournament sponsorships that allowed the school to award six scholarships. The following students from the Classes of 2007 and 2008 were recipients: Amanda Boeckel ’07, Kwaku Marfo ’07, Kari Mergenhagen ’07, Kerri Peterson ’07, Deborah Liana ’08, and Kathy Truong ’08.

## Tournament Sponsor ($6,000)
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Special thanks to DHP Consulting, Target, and Hannaford for their contributions.

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**White Coat Ceremony**

Students from the Class of 2010 take the oath of a pharmacist at the White Coat Ceremony.
The support to achieve our goals, the security to reach for the future, and the impetus for creativity are allowed through our well-positioned financial portfolio.

**A Supportive Financial Environment**

All members of the SoPPS are impacted by our positive and progressive financial planning. Financial support for the school is garnered through various avenues which include the State of New York, research activity, program and training, and philanthropic dollars.

The school is fortunate to have such a varied base of support to assist in achieving our goals: the education of our students, the quest for innovative research models, the growth of scholarly activity, and the advancement of health care.

The following graphs give an overview of the school’s financial activity via revenue, expenditures, and endowments.
School-wide Committees

Our school-wide committees give governance and oversight to our school. The structure, composition, and charges of the school’s standing committee are proscribed in the bylaws of the School of Pharmacy and Pharmaceutical Sciences.

Executive Committee
Wayne Anderson (Chair), Gayle Brazeau, Rebecca Brierley, Kathleen Boje, Karl Fiebelkorn, Cindy Konovitz, Candise Morris, Gene Morse, William Jusko, Leigh Yates

Student Academic Affairs Committee
Karl Fiebelkorn (Chair), Gayle Brazeau, Kathleen Boje, Bob Wahler, Nicole Paolini

Admissions Committee
Cindy Konovitz (Chair), Gayle Brazeau, Peter Brody, Karl Fiebelkorn, Fran Gengo, Don Mager, Marilyn Morris, Murali Ramanathan, Jerome Schentag, Judianne Slish, Robert Straubinger

Curriculum Committee
Gayle Brazeau (Chair), Karl Fiebelkorn (ex officio), Cindy Konovitz (ex officio), S.V. Balasubramanian, Stewart Brower, Patricia Grace, Marilyn Morris, Nicole Paolini, William Prescott, Lisa Nichols (P1), Daniel Burger (P2), Lynn Monteleone (P3), Crystal Francoforte (P4)

Safety Committee
Kathleen M. K. Boje (Chair), Wayne Anderson, S. V. Balasubramanian, Alfred Reiman, Patrick Smith, David Soda, Kathleen Tooley

Tenure and Promotion
William Jusko (Cochair), Gene Morse (Cochair), H. L. Fung, Marilyn Morris, Kathleen Tornatore

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Medicine and Clinical Translation Pharmacology
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