Message from the Dean

Review and Planning Create Strategic Opportunities

Academic year 2010-2011 was a period of great planning. The school was immersed in review and planning for our Fall 2011 ACPE Accreditation as well as planning celebration activities for the school’s 125th anniversary. These planning opportunities allowed us to reflect on our rich history, coupled with our academic and scholarly expertise, and then take this information to plan for a future filled with innovation, understanding and creativity. This out-of-the-box type thinking and approach is what has kept our school at the forefront of teaching and scholarship for the past 125 years and will keep the school well positioned for our vibrant future.

Our faculty have continued their success in securing outside support and is evidenced by continued strong funding for the Center for Protein Therapeutics, significant NIH funding for research programs and training programs for students and post-doctoral fellows. Our pharmacy residencies and fellowships continue to grow in numbers of trainees as well as diversity of programs. Recognition of faculty accomplishments is further evidenced by their receipt of such prestigious awards such as: William Jusko, recipient of the Leadership Award from the American Society of Pharmacometrics; Sathy Balu-Iyer, recipient of the 2011 University at Buffalo Exceptional Teacher of the Year Award; and Leung Fung, recipient of the 2011 Distinguished Service Award from the American Association of Pharmaceutical Scientists. These and many other faculty members are commended for their leadership in advancing their disciplines and the school in positive directions.

Our students have been equally successful. Our American Pharmacists Association Academy of Student Pharmacists organization have been incredibly active in their community outreach activities, spearheading such activities as Operation Heart, Operation Diabetes and Operation Immunization. APhA-ASP’s leadership members have received many nationally recognized awards as well as sit on many national committees. Students have been active in presenting at national meetings as well as publishing in peer reviewed journals. We are very proud of all they accomplish and appreciate the strength they bring to the school.

This year was filled with much review and planning, but what is evident from these important activities is the integrity and dedication of all members of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences. This synergist group of individuals allows the school to continue to lead and excel and positions us well to meet all our future opportunities.

Warm regards,

Wayne K. Anderson
Professor and Dean
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 and to provide services to the community at large based upon this knowledge. The mission is to provide a focus on patient-centered care and recognize pharmacist-delivered patient 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. This mission is to be achieved consistent with the highest ethical standards and a focus on diversity and cultural sensitivity. The mission also recognizes that research in the broad area of the clinical and basic pharmaceutical sciences 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 innovative, interdisciplinary bridges within the university.
At bench, Balu-Iyer was named Inventor of the Year by the Niagara Frontier Intellectual Property Law Association for novel work in the area of lipid-mediated protein therapeutics.

Bench to Bedside, Bedside to Bench
Evaluating how the body processes and reacts to drug therapies

At bedside, on the bench and in the classroom, two University at Buffalo School of Pharmacy and Pharmaceutical Sciences faculty members are going boldly where none in the field have gone before. And while pharmacy professionals are traditionally not hailed as popular heroes, the innovations of Sathy Balu-Iyer, PhD in pharmaceutical science, and William Prescott, PharmD in pharmacy practice, have made them “cape-worthy” contenders for the title.

Both received prestigious recognition last year for novel instructional technique — with curricular teaching applications that are at once similar and separate, and designed to engage a new age of learners.

“The students we are training today are of a different generation and therefore should be taught differently than we taught students 10 years ago,” says Clinical Assistant Professor Prescott, who was named 2011 SoPPS Teacher of the Year.

Associate Professor Iyer received the 2011 UB Award for Teaching Innovation. He also was named Inventor of the Year by the Niagara Frontier Intellectual Property Law Association for novel work in the area of lipid-mediated protein therapeutics.

“My research led to a series of technologies and one of them is to load proteins into dispersed systems,” he says of the intellectual property patented through UB and research funded by the National Institutes of Health and National Heart, Lung and Blood Institute (NHLBI). “In the Life Sciences category, the reviewers felt my discovery would make the greatest impact on society.”

A biophysicist, Iyer earned his doctoral degree in molecular
At bedside, William Prescott has conducted a clinical survey he believes will have a positive impact across the country on treatment for patients with cystic fibrosis.

“My research led to a series of technologies and one of them is to load proteins into dispersed systems,” Iyer says of the intellectual property patented through UB and research funded by the National Institutes of Health and National Heart, Lung and Blood Institute (NHLBI). “In the Life Sciences category, the reviewers felt my discovery would make the greatest impact on society.”

Iyer came to UB in early 1993 to pursue a post-doctoral fellowship with UB SoPPS Professor of Pharmaceutical Sciences Robert Straubinger, PhD, who is the director of UB Pharmaceutical Sciences Instrumentation Facility. “My post-doc training was on drug delivery approaches for cancer therapy using taxol,” says Iyer, who is assistant director of the Pharmaceutical Sciences Instrumentation Facility. Taxol is a small molecule drug used in the treatment of ovarian cancer. “Our aim was to load it into liposomes to reduce the toxicity of the drug. We did a lot of biophysical and animal studies.”

After his post-doc training, Iyer shifted his research focus from small molecule drugs to biotechnology, which led to his novel work with lipidic nanotechnology. “My interest now is in protein therapeutics,” he explains. “Currently, one of the major clinical complications of protein therapeutics is the development of an antibody response.”

His autoimmune reaction occurs when the body recognizes any part of a protein drug, which is biological in origin, as foreign and rejects it. Since 2002, Iyer has been working at the laboratory bench to meet this critical challenge to optimization of a new era of pharmacy therapeutics. His work has generated knowledge about lipid-mediated drug delivery that will improve the medical treatment of hemophilia and other genetic blood disorders; and help to develop effective vaccines against cancer tumors.

The ongoing research takes a three-pronged, interdisciplinary approach focused on bioengineering, immunology and pharmacokinetics/pharmacodynamics (PK / PD), and began with Factor VIII. The important recombinant coagulation protein is the first line of treatment for hemophilia, but has a high rate of immunologic rejection.

“We loaded these therapeutic proteins into a lipidic nanoparticle to deliver the drug,” Iyer says, explaining that the lipids can be “opened” for loading using solvents, controlled temperature and other methodologies. “With experimentation in hemophiliac mice we discovered that this process allows the Factor VIII to stay in the system longer and reduce the immune resistant response.

“Using a recombinant lipid-epitope complex for drug delivery creates a less immunogenic response,” he continues. “It shields the protein, and then an immune response doesn’t occur.”
PRESCOTT'S INSTRUCTIONAL STYLE also acknowledges the influence that personal technology has on student learning: ...“We need to be aware that our students are using these devices in class and that this has the potential to impair their ability to pay attention and learn what we are teaching them.”

If a patient develops an antibody response to a protein drug, the cost of bypass therapy can go up to a million dollars a year, and is accessible to only a few patients. “With this approach, therapy will be a lot less expensive,” Iyer explains.

The Erie County Medical Center, Women and Children’s Hospital and the Western New York Hemophilia Foundation are collaborators in Iyer’s Factor VIII research, and are anticipated to lead clinical trials in the future. UB also is cultivating private investors in the interest of launching a biotech company that would spearhead clinical trials.

In addition to the bench work with Factor VIII, Iyer is conducting research in concert with Duke University on the application of lipidic nanotechnology to lysosomal storage diseases such as Pompe, a rare blood disorder. His recognition as Inventor of the Year is linked also to lipidic nanotechnology research in collaboration with the UB School of Medicine and Roswell Park Cancer Institute, on immuno therapy IL-12 and development of a tumor vaccine mediated by dendritic cells.

Dendritic cells are part of the mammalian immune system. Their main function is to process and present antigens to other cells of the immune system. Iyer’s research has found that in some instances the dendritic cell will recognize the IL-12 protein as foreign, but the loaded lipidic nanoparticle teaches the dendritic cell not to create an antigen response.

“Lipidic nanotechnology to induce tolerance has never been used before,” Iyer concedes modestly. “This is the first time we are doing that.”

At bedside, Prescott has conducted a clinical survey he believes will have a positive impact across the country on treatment for patients with cystic fibrosis. His clinical survey studying the use of extended-interval aminoglycoside dosing for cystic fibrosis pulmonary exacerbations was carried out in cooperation with the Cystic Fibrosis Foundation, which distributed it to its chapters across the country.

Cystic fibrosis is an inherited chronic disease that affects the lungs and digestive system of about 30,000 children and adults in the United States. Aminoglycosides are a class of antibiotics commonly used to treat the infectious aspects of cystic fibrosis pulmonary exacerbations.

“We can learn a lot about how to best treat patients with cystic fibrosis by understanding what other practitioners around the country are doing,” Prescott says.

Aminoglycosides have traditionally been dosed three times daily. But the findings of Prescott's survey suggest that these antibiotics are now more commonly dosed by administering the entire daily dose at one time.

“This paper, which is in press, will help cystic fibrosis centers across the country compare and contrast their practices to what others are doing.”

A native of North Tonawanda, Prescott earned his PharmD degree from UB and completed two years of residency training at the University of Michigan.

“The first year of my residency was in pharmacy practice and the second year specialized in pediatrics,” he says. “I was given opportunities to not only improve my clinical skills, but to gain experience in teaching and research, all of which prepared me for the faculty position I am in today.”

He joined the UB Pharmacy Practice faculty in 2004, and currently teaches and coordinates the patient assessment course, pediatric sections of the pharmacotherapeutics sequence, and the leadership in pharmacy elective. During his tenure, he also has contributed instruction to many other courses, including advanced pharmacotherapeutics, pharmaceutical care, applied PK/PD, over-the-counter medications, orientation to pharmaceutical fields and apothecarial adventures.

“Within the pediatric acute care setting at the Women and Children’s Hospital of Buffalo, I have served as preceptor to approximately 75 fourth year pharmacy students during their advanced pharmacy practice experience, and since the initiation of the introductory pharmacy practice experience at our school in 2007, to approximately 40 students in their first, second and third professional years,” he adds.

Prescott says the focus of this well-heeled instructional portfolio is simply “teaching and learning.” The UB SoPPS Teacher of the Year Award he received in 2011 is given to a faculty member who has demonstrated excellence, innovation and effectiveness in teaching and advising. Individuals are recognized for one or more efforts in innovative course design, development and implementation in the past five years; improvement of existing courses on an ongoing basis; enhancing student learning through activities inside and outside the classroom; promoting student learning through the implementation of pedagogical and active learning, and participating and contributing to the school’s academic, advising and student activities.
“To be effective in the classroom, I believe we first need to create an environment that is conducive to learning,” he says, stressing that a new generation of learners calls for the generation of new instructional techniques. “I have modified the format of my classes from purely lecture based to an approach that focuses significantly more on patient cases, because that promotes a more active learning environment.”

This approach, in part, includes peer-to-peer learning through case-based assignments completed in groups before or during class, practical laboratory teaching that reinforces classroom instruction, simulation-based learning, and the preparation and presentation of mini-topics on disease state management. “Each of these,” he says, “affords students the opportunity to not only hear and see, but to say and do.”

Prescott’s instructional style also acknowledges the influence that personal technology has on student learning: “Ten years ago, the use of electronic devices in class was rare. Now, the use of electronic devices is a part of daily life, both inside and outside the classroom. We need to be aware that our students are using these devices in class and that this has the potential to impair their ability to pay attention and learn what we are teaching them.”

To address this, he and several colleagues recently completed a study to evaluate the use of electronic devices by pharmacy students during a pharmacotherapeutics sequence and assess the impact on academic performance.

“What we found was that the use of electronic devices during class, for both course-related and non course-related reasons, is common. And although electronic device use is associated with a negligible impact on academic performance overall, their use by students early on in the curriculum may have a negative impact on academic performance,” Prescott says of the study, to which 140 PharmD students responded.

“We believe these findings will help schools of pharmacy develop policies pertaining to the use of electronic devices during class so as to provide the best possible education to students.”

Ultimately, Prescott says he tries to put himself in his students’ position when he is in the front of the classroom. “I ask myself, ‘what would I want the professor to do to keep my attention?’ So to help engage students, I incorporate things like YouTube video clips and random movie scenes that my students are familiar with to relate the material in a fun way that they will remember. The result of these methods is improved student interaction and I believe retention.”

Iyer says effective interaction is primary in the technique he uses to engage a new cadre of learners. He has been at the front of a UB SoPPS classroom for 14 years, and currently instructs courses in protein therapeutics and physical pharmacy; and a lecture and lab in pharmaceutical principles.

It is the course in protein therapeutics, however, in which Iyer has principally flexed his teaching innovation. “Protein pharmaceutics still is a relatively nascent field, so there is really no textbook test to give at the graduate level to test the knowledge students need,” he says.

To address this, Iyer spends 75 percent of the curriculum at the lectern, and the remaining 25 percent facilitating peer-to-peer learning – like Prescott – through an interactive exercise that mimics the format used in the game show “Who Wants to Be a Millionaire.”

“I separate the class into four groups with company names and ask each to develop a biotech drug portfolio,” he explains. “During the last 25 minutes of the class, I ask them questions and give them a quiz. I give them three lifelines, but instead of making a phone call I ask them to contact their classroom neighbors.

“Use of protein drugs requires a new set of thinking skills,” he continues adding that the extensive reading required by his bench work enables him to keep his students up-to-date on state-of-the-art research in the field. “Students gain knowledge in the classroom, but don’t know how to apply the facts in a real life situation. This gives them the tools to do that.”

Prescott also is working to provide students with state-of-the-art learning opportunities. For the past several years, he has been part of a group of faculty from each of the University at Buffalo Academic Health Sciences Center Schools that has worked to conceive and develop a simulation based learning center.

Located on the UB South Campus, the Behling Simulation Center fosters inter-professional education using high-fidelity human patient simulators, and cases authored by faculty across the disciplines that mimic real life scenarios.

“We believe that training our students with medical students, nursing students, physical therapy students and others pursuing a career in health sciences, will better prepare them to work collaboratively with and communicate with these health care professionals following graduation,” Prescott says. “Having open lines of communication and being open to input from other health care professionals is very important to best care for our patients.”

When asked what inspires him to teach, Prescott says it is the unlimited potential to pass best patient care knowledge forward.

“As a teacher you are not only impacting the students you teach, but also the patients your students care for in the future. Teaching has a far reaching impact on patient care.”

– Jessica Thorpe, Outside the Box
Education

The SoPPS educates students in pharmacy and the pharmaceutical sciences, providing them with the critical thinking skills to allow them to achieve the desired outcomes of drug-related therapy and disease management through research and clinical intervention.

Admissions

The Office of Admissions and Advisement strives to continually improve and enhance our processes each year through innovation, creativity, input, and planning. In 2010-11, we continued our expanded in-person interview sessions involving both a faculty or staff member and an alumnus; a campus tour and a patient-care oriented group activity led by our Dean’s Student Ambassadors; and a casual yet engaging student social with pizza and our own Western New York favorite “Buffalo Wings.” Our Dean’s Alumni Ambassadors continue to engage in admissions activities by attending graduate school recruitment fairs across the country, electronically reviewing admission applications, interviewing, and as valued speakers for our annual Orientation and White Coat Ceremony.

Our active social media presence continues with our school based Facebook Fan Page, Twitter, UB Pharmacy YouTube Channel, along with a Wiki-page. These social media tools help us interact with new and existing markets in dynamic ways and better connect with our highly competitive applicants. These initiatives, together with our strong outreach programs and other electronic and paper media, continue to have a positive impact on the quality of our talented and diverse applicant pool, ultimately allowing us to attract and enroll the best students in our P1 PharmD class.

For 2010, the university and the school continued our strong tradition and welcomed another highly talented freshman class, with 330 students indicating pre-pharmacy as their intended major, representing nearly 10 percent of the University’s incoming class. UB’s Early Assurance (EA) program continues to offer outstanding pre-pharmacy students the opportunity to enter our PharmD professional program with a minimum GPA of 3.5 and, for the 2010-2011 academic year, the median GPA for EA students accepted into the program was 3.7.

Meet the Class of 2014

<table>
<thead>
<tr>
<th>Interviewed</th>
<th>Accepted</th>
<th>Middle 50th Percentile Science &amp; Math GPA (Biology, Chemistry, Physics, Math)</th>
<th>Middle 50th Percentile of Sum PCAT Percentile Score (excluding composite)</th>
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<tr>
<td>230</td>
<td>124</td>
<td>3.3 – 3.7*</td>
<td>335 – 401*</td>
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<tr>
<td>In-State</td>
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<tr>
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<td>Males</td>
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<td>2 years or less of college</td>
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<td>3+ years of college</td>
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<td>Bachelor’s degree or higher</td>
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<td>Average Age</td>
<td>22</td>
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*The middle 50th percentile reflects those between the 25th and 75th percentiles.

Degrees Granted (2010-11)

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<th>Degree</th>
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<tr>
<td>BS in Pharmaceutical Sciences</td>
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<tr>
<td>BS/MS in Pharmaceutical Sciences</td>
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<td>PhD in Pharmaceutical Sciences</td>
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Degree Program Enrollment (2010-11)

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<tr>
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<td>Total Enrollment</td>
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* The middle 50th percentile reflects those between the 25th and 75th percentiles.
Continuing Education
Office of Postgraduate Professional and Continuing Education

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<th>Fiscal Year 2010-2011</th>
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<td>UB Programs</td>
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<td>UB Certificate Program</td>
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<tr>
<td>Home Study Programs</td>
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<tr>
<td>Cosponsored</td>
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<td><strong>Total</strong></td>
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The Office of Postgraduate Professional and Continuing Pharmacy Education at the University at Buffalo School of Pharmacy and Pharmaceutical Sciences is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education.

The Office of Continuing Pharmacy Education’s mission is to provide continuing professional development activities designed in knowledge-, application-, and practice-based learning to meet the needs of pharmacists and preceptors in all practice settings, offering the most up-to-date, objective, and evidence-based programming.

The goal is to support life-long learning and to create an environment of continuing professional development. The University at Buffalo School of Pharmacy and Pharmaceutical Sciences strives to provide continuing education opportunities to assist in the health care delivery of patients in an interdisciplinary approach.

Over 1400 pharmacists and healthcare professionals attended live UB SoPPS ACPE accredited CE activities this year. The HIV online Education Center saw over 600 pharmacists throughout the US and abroad successfully complete the pharmacotherapy programs seeking the knowledge and skills necessary to assess, counsel and manage the medications of patients living with HIV infection and other common co-morbidities.

This year the Accreditation Council for Pharmacy Education (ACPE) and the National Association of Boards of Pharmacy (NABP) have recently announced a new electronic tracking service for pharmacists and pharmacy technicians called CPE Monitor. The purpose of CPE Monitor is to authenticate and store data for completed CPE units received by pharmacists and pharmacy technicians from ACPE-accredited providers. The Office of Continuing Pharmacy Education has created and transitioned databases and IT systems in compliance with this new requirement, as well as informs and continues to work with program participants ensuring a smooth transition.

Additional information on this collaborative service can be found on the new SoPPS Continuing Pharmacy Education webpage at www.pharmacy.buffalo.edu/ce as well as a link to the recently launched CE program online registration tool.

The postgraduate office offers educational opportunities for resident presentations, preceptor CE and alumni programs. Ongoing development includes the capture of live programming with conversion to a library of home-study offerings.
The Department of Pharmacy Practice continued its strong commitment to innovative and challenging post graduate education via our general (PGY-1) and specialty (PGY-2) residency training programs. During the 2010-11 academic year, our residency program demonstrated growth in both inpatient and outpatient programs. This past year, our program consisted of six PGY-1 programs; two ambulatory care/primary care, two inpatient (increased from one in 2009-10), one in hospice/palliative care, and one community (increased from zero in 2009-10). Our program also offered three PGY-2 programs; HIV, psychiatry, and informatics.

Our mission, to educate pharmacy residents in pharmacy practice, clinical precepting, didactic teaching, clinical research and manuscript writing; to provide patient care; and to provide services to the community at large based upon this knowledge, with the goal of training pharmacy residents to practice autonomously in the clinical pharmacy and/or academic settings, sets the framework for our program.

The goals of our program are accomplished by involving our residents in unique clinical activities such as those available within local medical groups, health maintenance organizations, hospitals and other community health locations. These goals are further enhanced via novel research projects and a variety of teaching opportunities. Specifically, our residents participate in a unique didactic research course, attend an established teaching certificate program, actively participate in small and large group didactic teaching and clinical precepting, present an ACPE accredited CE program, and conduct a research project. The University at Buffalo School of Pharmacy sponsors an annual Residency Presentation Day, which continued to expand in 2011, and includes multiple residency programs from the Western New York, Rochester, and Syracuse area. This program gives all residents the opportunity to give a platform style presentation to their resident peers as well as faculty and staff with winners chosen based on the merit of their presentation.

Continuing Education Programs and Symposia

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<th>Event Description</th>
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<tr>
<td>7/30/2010</td>
<td>New York State Medicaid Medication Therapy Management Training Program, Bronx, NY</td>
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<td>8/13/2010</td>
<td>New York State Medicaid Medication Therapy Management Training Program, Bronx, NY</td>
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<td>Pharmacist Educators in Ambulatory Anti-Hypertensive Therapy Management: Prescriber Education Program</td>
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<td>11/21/2010</td>
<td>Simple Approaches to Enhance Student Enjoyment During Experiential Education</td>
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<td>12/7/2010</td>
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<td>1/9/2011</td>
<td>Medication Errors and Prevention in Buffalo</td>
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<td>1/12/2011</td>
<td>Use of Pancreatic Hormones in Patients with Diabetes: The Who, When and How</td>
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<td>1/12/2011</td>
<td>Use of Gastrointestinal Hormones In patients with Diabetes: The Who, When and How</td>
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<td>1/19/2011</td>
<td>Prevention of Perinatal Transmission in the HIV Population</td>
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<td>Neuropsychiatric Illness in the HIV/AIDS Patient</td>
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<td>Pain Management in the Community: Avoiding Stereotypes While Improving Quality of Life</td>
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<td>1/29/2011</td>
<td>Pain Management in the Community: How Pharmacists can Contribute</td>
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<td>2/2/2011</td>
<td>Pathophysiology and Treatment of Addiction: What's Currently Available and What's on the Horizon?</td>
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<td>Pharmacist Educators in Ambulatory Anti-Hypertensive Therapy Management: Prescriber Education Program</td>
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<td>3/11/2011</td>
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<td>5/26/2011</td>
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<td>Online-HIV Pharmacotherapy Practice-Based Program</td>
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Residency Training Program Summary 2010-11

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<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Department</th>
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<tbody>
<tr>
<td>Shari Allen, PharmD</td>
<td>Resident PGY2-Psychiatry</td>
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<tr>
<td>Mostafa Elgebaly, PhD</td>
<td>Fellow Drug Development/Novartis</td>
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<tr>
<td>Gina Ferris, PharmD</td>
<td>Resident PGY1-Primary Care/Buffalo Medical Group</td>
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<tr>
<td>Cory Fominaya, PharmD</td>
<td>Fellow Outcomes Research</td>
</tr>
<tr>
<td>Samira Garonzik, PharmD</td>
<td>Fellow Drug Development/Novartis</td>
</tr>
<tr>
<td>Rachel Giroux, PharmD</td>
<td>Resident PGY1-Community Pharmacy/Middleport Family Health Center</td>
</tr>
<tr>
<td>Ashley Hughes, PharmD</td>
<td>Resident PGY1-Pharmacy Practice/ECMC</td>
</tr>
<tr>
<td>Kiana Keyvanjah, PharmD</td>
<td>Fellow Drug Development/Novartis</td>
</tr>
<tr>
<td>Shankar Lanke, PhD</td>
<td>Fellow Drug Development/Novartis</td>
</tr>
<tr>
<td>Natalie Latuga, PharmD</td>
<td>Resident PGY1-Homecare/Hospice</td>
</tr>
<tr>
<td>Ridhi Parasrampuria, PhD</td>
<td>Fellow Drug Development/Novartis</td>
</tr>
<tr>
<td>Sonia Sawkar, PharmD</td>
<td>Resident PGY1-Ambulatory Care/Lifetime Health</td>
</tr>
<tr>
<td>Maura Schwab, PharmD</td>
<td>Resident PGY1-Primary Care/Buffalo Medical Group</td>
</tr>
<tr>
<td>Vanessa Stevens, PhD</td>
<td>Fellow Outcomes Research</td>
</tr>
<tr>
<td>Karen Thudium, PharmD</td>
<td>Fellow Drug Development/Novartis</td>
</tr>
<tr>
<td>Kendra Vermeulen, PharmD</td>
<td>Resident PGY2-HIV/AIDS</td>
</tr>
</tbody>
</table>
**Commencement Awards**

- Lilly Achievement Award  
  Carolyn Hempel  
- Phi Lambda Sigma of Achievement, Chapter Member of the Year Award  
  Kristen Zeitler  
- Michael E. Crawford Award  
  Melissa Apa  
- Eino Nelson Award  
  Kate Fifield  
- UB Pharmacy & Pharmaceutical Sciences Alumni Association Award  
  Samuel Aitken  
- David E. Guttman Award  
  Patrick Glassman  
- Renee A. Dederich Award  
  Brian Badgley  
- Francis P. Taylor Award  
  Kate Fifield  
- UB School of Pharmacy & Pharmaceutical Sciences Professionalism Award  
  Kristen Zeitler  
- Robert H. Ritz Award  
  Kate Fifield  
- National Community Pharmacists Association Outstanding Student Member Award  
  Michael Grota  
- ASP National Patient Counseling Award  
  Michael Krajewski  
- Roger Mant savinos Award  
  Carolyn Hempel  
- Lori Esch Memorial Award  
  Stephanie Newman  
- Merck Award  
  1st Amy Telesz  
  2nd Robert Seabury  
  3rd Brian Ames  
- Robert M. Cooper Memorial Award  
  Amy Telesz  
- Mylan Pharmaceutical Excellence in Pharmacy Award  
  David Jacobs  
- Facts and Comparisions Award of Excellence in Clinical Communication  
  Katherine DiPalo  
- Roy M. Barr Award  
  1st Kate Fiffield, 2nd Pulkit Bhuptani  
- Western New York Society of Health-system Pharmacists Award  
  Kristina Marchese  
- Samuel J. Bauda Award  
  Brian Salvas  
- Pharmacists’ Society of the State of New York  
  Kristen Zeitler  
- Natural Medicines Comprehensive Database Recognition Award  
  Jerry Altshuler  
- McKesson Leadership Award  
  Michael Krajewski  
- TEVA Pharmaceuticals USA Outstanding Student Award  
  Calvin Meaney  
- Margaret C. Swisher Memorial Award  
  Robert Seabury  
- A.B. Lemon Memorial Award  
  A. B. Smith  
- ASP Certificate of Recognition  
  1st Gauri Rao, 2nd Michael Krajewski  
- The Inpatient Advanced Pharmacy Practice Experience Award  
  Brian Ames  
- The Outpatient Advanced Pharmacy Practice Experience Award  
  Robert Seabury  
- Pharmacists’ Association of Western New York Student Leadership Award  
  Kristen Zeitler  
- Excellence in Pharmacogenomics Award  
  Thao Doan  
- Katherine Doyle Memorial Award  
  Stephanie Newman  
- Kelli Jordan Memorial Award  
  Gauri Rao  
- The Outstanding Graduating Senior Award in Pharmaceutical Sciences  
  Patrick Glassman  
- The Robert H. Gun tew Undergraduate Research Award in Pharmaceutical Sciences  
  Laura Radecki  
- The Alfred and Erma Jones Award  
  Laura Radecki  
- Excellence in Teaching Award  
  William Prescott, PharmD  
  Clinical Assistant Professor

**Student Achievements**

**2011 School Awards**

**Ceremony Winners:**
- Gauri Rao: Daniel H. Murray Memorial Professional Development Award  
- Brian Badgley: U.S. Public Health Service Excellence in Public Health Pharmacy Practice Award  

**2011 SoPPS Student Research Poster Winners**
- BS/MS: Hao Sun, Laura Radecki & Gavriilo Durica, Shunxin Lin, Matthew Foster & Jamie Chin  
- P3 Student: Kyle Hacker  
- P4 Students: Gauri Rao and Angela Mwaurar

**American Association of Colleges of Pharmacy Pruitt –Schutte Business Plan Competition, 3rd Place Team Members**  
Christopher Daly, Christopher Diehl and Clare Carroll

**Student Supporters**

The following supporters have provided generous funding for the educational training of pharmacy postgraduate residents and fellows, as well as trainees in all levels for pharmaceutical sciences programming.

**Pharmaceutical Sciences**

**PHD STUDENTS**
- Genentech Bioncology  
  Jun Wang  
- Pfizer Inc.  
  Vaishali Chudasama  
  Xiling Jiang  
  Jonathan Knights  
  Matthew Kosloski  
- Schering Corp.  
  Yang He  
- Daiichi Sanyko, Inc.  
  James Kalabus  
- John and Editha Kapoor Fund  
  Puneet Gaitonde

**POSTDOCTORAL ASSOCIATES/FELLOWS:**
- Pfizer, Inc.  
  Sihem Alt-Oudhia  
  Yanguang Cao  
  Indrajeet Singh  
  Hongmei Xu  
- Hoffman LaRoche  
  Salaheldin Hamed  
- Center for Protein Therapeutics  
  (Genentech, Lilly, Roche, Merck, Pfizer, Abbott, Boehringer Ingelheim)  
  Hong Ding  
  Brent Footer  
  Allison Gaudy  
  Leonid Kagan  
  Dongyang Liu  
- Mitalee Tamhane  
  Fang Wu  
  Ying Zhang  
  Bo Zheng

**Pharmacy Practice**

**POST GRADUATE RESIDENTS AND FELLOWS**
- Lifetime Health Medical Group  
  Sonia Sawkar  
- Buffalo Medical Group  
  Gina Ferris  
- Novartis Pharmaceuticals Corporation  
  Lanke, Shankar  
- Thudium, Karen  
- Parasrampuria, Ridhi  
- Samira Merali  
- Mostafa Elfebayly  
- Kiana Keyvanjah

**American Pharmacists Association Academy of Student Pharmacists**

- 2011 Operation Heart Region winner with team leader Ali Mohamedali honored with a plaque for his efforts.  
- Supported the 2011 Operation Diabetes project by participating in the annual American Diabetes Association: StepOut: Walk to Fight Diabetes.  
- Supported Operation Immunization with patient care projects focusing on providing education on the importance of receiving vaccines.

**Patient Counseling Competition**
- 1st Place: Arthur Fyles  
  2nd Place: Kyle Ma  
  3rd Place: Tara Castelman  
- Kyle Ma represented APhA-ASP in the International Pharmaceutical Students’ Federation (IPSF) Student Exchange Program.

**Student National Pharmaceutical Association 2011 Award Recipients**

**Academic Excellence Award:**
- Diane Yu, Femi Adesina, Mohamed Ahmedin, Ngozi Geraldene Agbasionwe, Uzy Atuegwu, Toyin Fabiyi

**Service Excellence Award:**
- Abdul Ghorbandi

**Ingrid Johnson ’92 Founders Award:**
- Uzy Atuegwu

**Leadership Excellence Award:**
- Ngozi Geraldene Agbasionwe, Teresa Rizzone-Ebel and Kristen Della Penna accepted into the Veterans Administration VALOR (internship) program here at the Buffalo VA Medical Center.
The VALOR program is an honors program that provides outstanding students a chance to develop competencies in pharmacy practice while working at a VA health facility.

**Individual Achievements**

Lubna Abuqayyas recipient of the 2011 American Association of Pharmaceutical Scientists Graduate Student Award.

Geraldine Agbasionwe recipient of a scholarship from the National Association of Chain Drug Stores’ Foundation.

Samuel Aitken appointed as a member of the American College of Clinical Pharmacy Credentialing Committee.

Michael Bear published Bear, M. D., Liu, Y., Giel-Michael Bear published Bear, M. D., Liu, Y., Giel-Michael Bear published Bear, M. D., Liu, Y., Giel-Markowski published, "Clopidogrel Enhances Platelet Responsiveness to Aspirin" at the annual American College of Clinical Pharmacology meeting. This abstract was also published in September 2010 issue of The Journal of Clinical Pharmacology.

Yuzhuo Pan, recipient of a travel award from Drug Metabolism Division, American Society for Pharmacology and Experimental Therapeutics. Yuzhuo was also selected to give an oral presentation at the Experimental Biology 2011 Annual Meeting.

Laura Radecki recipient of the Alfred & Irma T. Jones Award.

Christopher Shernow recipient of the American Association of Colleges of Pharmacy Walmart Scholars Program Award.

Kristen Zeitler recognized as Phi Lambda Sigma’s 2011 Member of the Year.

**Who’s Who Among Students in American Universities and Colleges**

Alicia Harrison
Andrew Stivers
Ashley Smith
Brian Badgley
Calvin Meaney
Carolyn Hempel
Christina Hall
Danielle Kaufman
David Jacobs
Drew Lambert
Gauri Rao
Ishita Patel
Justine Kirsch
Kristen Zeitler
Kristina Marchese
Kyle Mack
Laura Vespi
Michael Grota
Michael Krajewski
Nicholas Scalzo
Rezarta Ajazi
Samuel Aitken
Stephen Tarbell

**Bachelor of Science in Pharmaceutical Sciences**

**September 2010**

Carrie Sanborn
Jennifer Sweick

**June 2011**

Ayodeji Akinnwande
Denise Bentley
Jenna Clark
Patrick Glassman
Laura Radecki
Catherine Slota
Hao Sun
Ying Wang
Amy Zhou

**Bachelor of Science/Master of Science in Pharmaceutical Sciences**

**February 2011**

Michael Turner

**Master of Science in Pharmaceutical Sciences**

**September 2010**

Lavanya Iyer
Jessica Klapa

**June 2011**

Charvi Nanavati
Hao Wang

**Doctor of Pharmacy**

**June 2011**

Matthew Agosti
Samuel Aitken
Christina Allen
Jerry Althuser
Brian Ames
Lisa Anderson
Melissa Apa
Brian Badgley
Danielle Baldwin
Kristen Bayerl
Shana Beg
Daniel Benimoff
Stephen Bernard
Pulkit Bhuptani
Richard Brecker
Joseph Brennan
Amy Brightbill
Michael Cardamone
Christopher Chan
Hai Chan

**2010-11 Degree Recipients**

Kelly Chan
Katherine DiPalo
Thao Doan
Oluwafabiyi Kate Fifeid
Matthew Foster
Hsin-Wei Fu
Jessica Gaiser
Michael Grota
Christina Hall
Jonathan Hangey
Alicia Harrison
Leah Heckler
Carolyn Hempel
Anne Hojnakci
Johnny Hon
Kevin Hsu
Esther Huang
Hao Huang
Kyle Iannotti
David Jacobs
Danielle Kaufman
Amber Kelkenberg
Michelle Khait
Tiffany Kiblin
Justine Kirsch
Lindsay Kohl
Michael Krajewski
Lisa Kurczewski
Na Rae Kwon
Rezarta Lako
Drew Lambert
Shin Haeng Lee
Susan Lee
William Leung
Marisa Lewengrub
Jamie Lewis
Jathiya Lewis
Susan Lo
Hoi Man Ma
Kyle Mack
Sean MacMaster
Jackson Mains
Christina Manciocchi
Peggy Mann
Kristina Marchese
Aniela Markut
Calvin Meaney
Jamie Miranda
Angela Mwaura
Tracey Nagel
Megan Nelson
Stephanie Newman
Patricia Ng
Dung Ngo
John Nguyen
Elissa Ostrander

Elizabeth Panfil
Kruti Parikh
Ishita Patel
Richard Perrello
Lauren Petrozzi
Anthony Pietrzak
Allison Pitman
Chi Ki Poon
Eugene Przespo
Gauri Rao
Stacy Reger
Gabrielle Riorden
Brian Salvas
Elizabeth Sanders
Nicholas Scalzo
Robert Seabury
Anand Shah
Charles Shearract
Ashley Smith
Andrew Stivers
Stephen Tarbell
Rebekah Tate
Amy Telesz
Evon Tong
Taylor Topping
Vinh Tran
Yu Ching Tse
Laura Vespi
Manuel Villaverde
Edward Walsh-McGarth
Benjamin Wee
Sarah Wightman
Kristin Zeitler

**Doctor of Philosophy in Pharmaceutical Sciences**

**September 2010**

Guohua An

**February 2011**

Suraj Bhansali
Melanie Felmlee
Wei Gao
Chao Xu

**June 2011**

Xiling Jiang
Aaron Peng
SoYoung Shin
Research and Training

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

Department of Pharmaceutical Sciences

Our Department has a well established, international reputation for a tradition of excellence in teaching and research and continues to be well positioned to expand to continue its leadership in Pharmacokinetics, Pharmacodynamics, and Protein Therapeutics.

Of continued strength are the activities in the Center for Protein Therapeutics, directed by Dr. Joseph P. Balthasar. With additional major input from Drs. Jun Qu, Marilyn Morris, and Donald Mager, and participation by several other members of the Department, the Center seeks to apply our capabilities in pharmacokinetics, pharmacodynamics, protein analysis, and protein formulation, and to address major questions regarding the delivery, pharmacokinetics, and in vivo effects of protein drugs such as monoclonal antibodies. The Center continues to be successful in seeking outside support and continuing strong partnerships with industry leaders. Research sites are at the Center of Excellence in Bioinformatics and Life Sciences in the Buffalo Niagara Medical Campus Corridor as well as in the Cooke-Hochstetter Building on the university’s North Campus. Financial support of $1.35 million for the fourth year of research and training by the Center was provided by Abbott, Boehringer-Ingelheim, Eli Lilly, Genentech, Hoffman-LaRoche, Merck, Pfizer, as well as additional related funding provided by Novartis and Amgen.

We have excellent faculty members over a range of academic levels with highly productive, largely NIH-funded research programs and as well as corporate support. Donations of over $150,000 for graduate student training were provided by Daiichi Sankyo, Schering-Plough, Hoffman-LaRoche, and Amgen, and as well as continued funding of a training grant for $250,000 to support students and post-doctoral fellows by Pfizer Pharmaceuticals.

Our long-standing and highly respected Seminar Program was offered with over 25 presentations in 2010-2011 by local and visiting scientists. Dr. Richard LaLonde, Vice-President and Global Head of Clinical Pharmacology at Pfizer Pharmaceuticals was selected for the 2010 Gerhard Levy Distinguished Lectureship in Pharmaceutical Sciences. His presentation was entitled, “Impact of Pharmacokinetic – Pharmacodynamic Modeling and Simulation in Drug Development.” Other notable speakers during the academic year were: Dr. Ioannis Androulakis,
The 2010-11 academic year was a robust and productive year for the department of Pharmacy Practice. The teaching and research of our faculty continued to increase within the PharmD program as well as with our postgraduate training programs. Our residency programs expanded in both inpatient and outpatient settings and we offered three PGY-2 programs.

Our faculty members represented the school well at many national meetings and their scholarly activity was strong. William Prescott was recognized for his innovative teaching techniques and was the recipient of the school’s 2011 Teacher of the Year Award. Karl Fiebelkorn and Nicholas Norgard were recognized for their dynamic teaching as 2011 TOY Finalists.

The department is proud of the continued collaboration with the New York State Department of Health. Activities have continued to grow and expand with involvement in a pilot Medication Therapy Management Program, statewide drug utilization review and a novel prescriber education program (PEP). These efforts, in collaboration with other SUNY health science units, are expected to provide much benefit to New York State Medicaid recipients and provide excellent opportunities for our faculty and students to engage in pharmacoeconomic and pharmacinformatic scholarly activities.

The Office of Experiential Education has continued to have great success in enhancing and expanding rotational sites for our students. The new scheduling and management software has proven to be a great asset in managing the increasing number of rotational opportunities. Faculty Development opportunities continue to be reviewed and enhanced with the many innovative development sessions available through the University’s Teaching and Learning Center.

Continuing Education programming has continued to be a vital link to our community partners. In 2010-2011, 32 programs were offered by our Office of Post Graduate and Professional Education. Programs offered diverse course content such as the ‘Pathophysiology and the Treatment of Addictions’, ‘Use of Pancreatic Hormones in Persons with Diabetes’ along with many online courses.
Faculty Grants Awarded
July 1, 2010 - June 30, 2011

Pharmaceutical Sciences

**Joseph Balthasar**  
Multiple Sponsors  
*Protein Therapeutics Consortium*  
Novartis Pharmaceuticals  
Lab for Protein Therapeutics

**Javier Blanco**  
National Institute of General Medical Sciences (RO1)  
*Pharmacogenetics of Human Carbonyl Reductases*

**William Jusko**  
National Institute of General Medical Sciences  
*Corticosteroid Pharmacokinetics and Pharmacodynamics*  
National Institute of General Medical Sciences (Mager and Krzyanski Co-PI’s)  
*Mathematical Models in Pharmacodynamics*

**Donald Mager**  
Fred Hutchinson Cancer Research Center  
*Population Pharmacokinetics/Pharmacodynamics in Nonablative Stem Cell Recipients*  
F Hoffman La Roche  
*Modeling of the Pharmacokinetics of TDM1 using a mechanism based approach*

**Marilyn Morris**  
National Institute on Drug Abuse  
*“Gamma-Hydroxybutyrate: Toxicokinetics, Toxicodynamics and Treatment Strategies”*

**Jun Qu**  
National Institute of Health (Co-PI)  
*Identification of colon cancer protein biomarkers in the blood*  
Health Research Inc. (Co-PI)  
*Pathogenesis of Moraxella Catarrhalis in chronic obstructive pulmonary disease*  
CH3 Biosystems LLC  
*UB CAT: Validation of Methylation Status for Methylarginine Proteins*

**US Army Medical Research Acquisition Activity**  
*Gene-Environmental Interactions in Progression of Multiple Sclerosis*

**National Institutes of Allergy and Infections (Co-PI)**  
*ARRA: Pathogenesis of Moraxella Catarrhalis in Chronic Obstructive Pulmonary Disease*

**National Institutes of Allergy and Infections (Co-PI)**  
*Protein Arginine Methylation in Trypanosomes*

**Murali Ramanathan**  
National Multiple Sclerosis Society  
*Brain-Derived Neurotrophic Factor in Multiple Sclerosis*  
US Army Medical Research Acquisition Activity  
*Gene-Environmental Interactions in Progression of Multiple Sclerosis*  
Monsanto Company  
*Gene x Gene Interactions*

**Jerome Schentag**  
TheraSyn Sensors Inc  
*UB CAT: Development of Xerogel Panels as Sensor Systems for Multi-Analyte Sensor Applications*  
TheraSyn Sensors Inc  
*UB CAT: Development of Microdialysis-based Fluidic Flow-Cell Disposable Units and Pumping Systems*

**Robert Straubinger**  
Trustees of Columbia University  
*Optical Imaging of Chemotherapy for Brain Tumors*  
National Institute on Drug Abuse (Dr. Qu Co-PI)  
*Peripheral Biomarkers of Cocaine Dependence and Relapse*

**Aiming Yu**  
National Institute on Drug Abuse (Drs. Jusko and Boje Co-PI’s)  
*Pharmacogenetics in Indolealkylamine Metabolism and Drug Interactions*  
Board of Trustees of the University of Illinois  
*Altered Drug Metabolism in Pregnancy*
Pharmacy Practice

Jack Brown
Cubist Pharmaceuticals
Occurrence and economic impact of nephrotoxicity related to vancomycin exposure

Alice Ceacareanu
NYS Department of Health
Modulation of Inflammatory Response by Diabetes Management in Breast Cancer Patients: a Potential Modifier of Breast Cancer Prognosis

Alan Forrest
University of Pittsburgh
Optimizing Dosing of Colistin for infections resistant to all other antibiotics
Hoffman LaRoche Inc.
Pharmacy Roche Fellowship

Gene Morse
Erie County Medical Center
HIV Treatment Education
Erie County Medical Center
New York State Adherence Project
Fogarty International Center (Drs. Ma and Maponga Co-PI’s)
Antiretroviral Pharmacology Training in Resource Poor Countries
“Social and Scientific Systems, Inc.”
ACTG Pharmacology Laboratory
National Institute of Allergy & Infectious Disease (Options 1-5)
Clinical Pharmacology Quality Assurance and Quality Control
Social and Scientific Systems Inc.
Aids Clinical Trials Group Network
Social and Scientific Systems Inc.
ACTG Precautionary & Prohibited Medication Table
University of Rochester
Upstate New York Translational Research Network (UNYTRN)

University of Rochester
Units for HIV/AIDS Clinical Trials Network
University of Rochester
CHET
University of Rochester
ARRA: Researcher Resilience through Multidimensional Mentoring: The Rochester Research Workforce Diversity Program
University of Rochester
Units for HIV/AIDS Clinical Trials Network: Equipment
University of California, San Francisco
Disulfiram Interactions with HIV Medications: Clinical Implications

Kathleen Tornatore
National Institute Diabetes & Digestive & Kidney Disease
ARRA: Genomic and Cellular Markers and Chronic Renal Allograft Function
Department of Health (Co-PI)
Empire Clinical Research Investigator Program (ECRIP); Fellowship in Clinical Research Training for Physicians

Brian Tsuji
Monash University
Targeting MDR Hetero-Resistant Gram-Negatives: PK/PD for Rational Combinations
Cubist Pharmaceuticals, Inc.
Research Material Transfer Agreement: Pharmacokinetic-Pharmacodynamic Evaluation of CXA-102 Against Multi-Drug Resistant Gram Negative Organisms
American Foundation Pharmaceutical Education Fellowship for Neang Ly

New Technology

<table>
<thead>
<tr>
<th>Invention Disclosure</th>
<th>Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inverse Vaccination to Mitigate Immunogenicity of Protein Therapeutics</td>
<td>Sathy Balu-Iyer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Issued Patents</th>
<th>Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compositions of Less-Immunogenic and Long Circulating Protein-lipid Complexes</td>
<td>Sathy Balu-Iyer, Robert Straubinger</td>
</tr>
<tr>
<td>Method for Treating Blood Coagulation Disorders</td>
<td>Sathy Balu-Iyer, Robert Straubinger</td>
</tr>
<tr>
<td>Bridging Centrality: A Concept and Formula to Identify Bridging Nodes in Scale-free Networks</td>
<td>Murali Ramanathan</td>
</tr>
</tbody>
</table>
Scholarship

Pursue innovation, identify solutions and present results to enhance the local, national and international leadership of SUNY, UB and the SoPPS.

Intellectual Contributions
July 1, 2010 - June 30, 2011

Pharmaceutical Sciences

Balthasar, Joseph P.


Balu-Iyer, Sathy V.


Blanco, Javier G. G.


Fetterly, G., Thudium, K., Murphy, M., Prey, J., Kalabus, J.L., Tracey, O., & Blanco, J.G. Understanding the Role of Carbonyl Reductase Polymorphisms on Doxorubicin-Induced Cardiotoxicity with Population Pharmacokinetics (PK). Chicago, IL: American Society of Clinical Oncology, 2011.

Brazeau, Daniel A.


Fung, Ho Leung


Jusko, William J.


Mager, Donald E.


Morris, Marilyn E.


Qu, Jun


Ramanathan, Murali


Schentag, Jerome J.


Straubinger, Robert M.


Yu, Aiming


Pharmacy Practice

Bednarczyk, Edward M.


Brown, Jack


Ceacareanu, Alice C.


Doloresco III, Fred


Gengo, Francis M.


Havard, Patty F.


Hong, Irene


Hong, I., & Bishop, J.R. "Anticholinergic use in children and


Ma, Qing


Monte, Scott V.


Morse, Gene D.


Norgard, Nicholas B.


Paladino, Joseph A.


Prescott, Gina M.


Prescott Jr, William A.


Tornatore-Morse, Kathleen M.


Tsuji, Brian T.


Wahler Jr., Robert G.

Webb, Ashley N.


Office of the Dean

Hess, Jennifer


Special Honors for Faculty and Staff

Sathy Balu-Iyer, associate professor, recipient 2011 Exceptional Scholar Teaching Innovation Award, University at Buffalo, and was also awarded the 2011 Inventor of the Year award, Niagara Frontier Intellectual Property Law Association.

Peter Brody, clinical assistant professor, recipient 2011 AACP Wal-Mart Scholar Program, American Association of Colleges of Pharmacy.

Karl Fiebelkorn, clinical associate professor, recipient 2011 SoPPS Teacher of the Year Finalist award, elected as the Region I Councilor for Rho Chi Academic Honor Society, recipient of the W. Bruce Philip Certificate of Commendation, Kappa Psi Pharmaceutical Fraternity and recipient 2011 Jack Nicolas Award, Pharmacists Society of the State of New York.

Ho Leung Fung, professor, recipient 2011 Distinguished Service Award, American Association of Pharmaceutical Scientists.

Irene Hong, clinical assistant professor, recipient of the SoPPS Lambda Kappa Sigma Fraternity, 2011 Outstanding Female Pharmacist Award.

William Jusko, professor, recipient 2011 “Leadership Award” from the American Society of Pharmacometrics, elected as Chairperson, National Institute of Health Special Review Committee for Glue Grants and was awarded the 2011 American Conference on Pharmacometrics Leadership Award.

Cindy Konovitz, assistant dean for advisement, recipient 2011 SoPPS Student National Pharmacists Association Advisor Excellence Award.

Donald Mager, associate professor, elected to Review Panel, National Institute of Health, Special Emphasis Panel (EMNR K 55).

Candy Morris, assistant dean for resources management, recipient 2011 University at Buffalo Professional Staff Senate Outstanding Service Award.

Marilyn Morris, professor, recipient 2011 Service Award, from the Pharmacokinetics, Pharmacodynamics and Drug Metabolism Section, American Association of Pharmaceutical Scientists.

Jonathan Navratil, programmer/analyst, recipient 2011 SoPPS Staff Member of the Year Award.

Nicholas Norgard, clinical assistant professor, recipient 2011 SoPPS Teacher of the Year Finalist Award.

Gina Prescott, clinical assistant professor, recipient 2011 Specialist Teaching Award, UB Department of Family Medicine, Erie County Medical Center.

William Prescott, clinical assistant professor, recipient 2011 SoPPS Teacher of the Year. Western and recipient 2011 Central New York Residency Preceptor of the Year Award.

Alfred Reiman, clinical assistant professor, recipient 2011 Alumni of the Year, SoPPS Lambda Kappa Sigma, Alpha Theta Chapter.

Christine Stumm, assistant director of admissions, appointed Vice President of Communications for New York State Association for College Admission Counseling.
The UB pharmacy school had a remarkable year of honoring our history as we also anticipate the future in a new location.

The school celebrated its 125th anniversary in 2011, with a full slate of events, including a gala dinner, guest speaker presentations and tours of our new home, John and Editha Kapoor Hall on the UB South Campus, which will open for classes in Fall 2012. The school — founded in 1886 and considered the birthplace of academic biopharmaceutics, pharmacokinetics and pharmacodynamics—is a nationally ranked leader in academic health care.

Donations during 2010-11 were the highest ever, with a total of $4.3 million collected, 20 percent more than the previous year. A total of 63 new donors gave to the school, and 187 donors increased the amount they had given the previous year. The school had the third highest alumni participation rate of all UB schools, and our Willis G. Gregory Society welcomed eight new members, bringing to 83 its total membership.

These statistics reflect a growing commitment from alumni, donors and friends to realizing Dean Anderson’s vision of providing students the very best academic experience. Your ongoing generosity helps us attract top students and world-class faculty. Most important is the consistency with which our donors give to the pharmacy school, year in and year out, that helps us build a community of discovery and care. We thank you for your continual investment, which allows us to succeed in our aspiration to train and nurture the pharmacists, clinicians, pharmaceutical scientists and community leaders of tomorrow.

A dozen of UB pharmacy students who never met the late Pamela Emerson ’52 feel closer to her today.

They comprise the first group of recipients of Pamela M. Emerson Scholarships, which she established to pay tribute to her mother, Gladys Richmond Emerson.

Meagan Stringham, a fourth-year PharmD candidate, appreciates the scholarship because her busy academic schedule — “this year requires at least a 40-hour-per-week commitment at a rotation site for 36 weeks”— plus homework leaves little time for earning money at an outside job.

The Corfu, NY, native chose to study pharmacy when she realized it “is a career that would allow me to help people every day, and give me the opportunity to be an advocate for them.” Stringham hopes to work as a consultant pharmacist in a nursing home.

Second-year student Katherine Dixon is “so thankful” for the scholarship. “Through working and with this scholarship, I was able to take out half of the loans that I did last semester. That is such a relief,” Dixon said.
Donor’s gift benefits a dozen grateful pharmacy students

“I hope one day, I can give back to this school that has given so much to me.”

A native of Rochester, NY, Dixon would like to work “as a clinical pharmacist in a hospital.”

Elizabeth Lakota, Class of 2014, called the Emerson Scholarship “a huge help financially.”

“It has allowed me time to focus on academics and professional development rather than my finances,” said Lakota, who plans to pursue postgraduate training in the field of endocrinology.

Fourth-year student Katherine Spence, who would like to teach pharmacy, said the scholarship “has helped immensely. I am paying my own way through school and am not able to work during some of my rotations, so I was expecting money to be tight. This scholarship has given me peace of mind so that I can focus on my rotational studies with less stress.”

Deanna Driscoll, a third-year student, said she “can truly appreciate how much UB and the pharmacy profession meant to Pamela Emerson as she founded the scholarship fund.”

Driscoll, who is APhA-ASP vice president, works at a retail pharmacy in Tonawanda, her hometown, and chose UB for “its reputation for excellence in pharmacy” and its location.

“Staying close to home continues to give me the support of friends and family,” said Driscoll, who wants to be a community pharmacist who participates in medication therapy management.

The students’ comments echo the life and career of Emerson, who intended to prevent students from struggling financially as she had, according to Anna Mauri ’79.

“Pam was a caring person” both with family and career. She lived with her parents and took great care of them,” Mauri said. “She had to work to pay her own way at a time when parents didn’t expect women to be the breadwinners for their families. She knew the value of hard work.”

Mauri and her sister, Patty Bager ’77, worked at Jay’s Drug Store in Lockport with Emerson, who was a pharmacist there for over 60 years. Mauri recalled that the four store owners—J.J., Sam, Frank and Tom Marotta—were supportive of the three women. All but Tom had graduated from UB pharmacy.

After Jay’s closed, Emerson worked at Rite Aid in Lockport and McCloud’s pharmacy in Niagara Falls, and as a consultant to two area nursing homes before her death in 2010. Mauri said she personified what it means to be a successful community pharmacist.

“Pamela was always conscious of customer health care needs and of the cost,” Mauri said. “She would always try to find the best choices, calling the doctor if necessary, but also taking into consideration the customers’ financial situation. She was proactive in health care costs way ahead of her time.”

Eight of 12 Emerson Scholarship recipients outside the new Model Pharmacy in Kapoor Hall, from left, Meagan Stringham, Stephanie Li, April Huang, Elizabeth Lakota, Katherine Dixon, Srijana Jonchhe, Deanna Driscoll and Amanda Paxton. Not pictured, Uzoamaka Atuegwu, Katherine Olson, Hannah Park and Katherine Spence.
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- Myra Boyer ’68
- Angela Coniglio ’60
- Joan Hector ’59
- Roseanne Kalaba ’63
- John Krawiec ’57 and Mary Ann Janiga
- Krawiec ’58
- Robert and Patricia Lavette
- Jan ’59 and Rose Mary Madejski ’59
- Margaret Quinn ’60
- Michael ’60 and Mary Salotti
- JoAnn Giambelluca Skaros ’59
- Sandra Stanbridge ’60

#### In Memory of Lori Esch ’97
- Bernard ’61 and Coraline Esch

#### In Memory of Frank Marotta ’44
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- Simon Glavinic and Rose Marotta-Glavinic

#### In Memory of Joseph Sarnowski ’21
- Bruce and Elaine Boland ’55

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- Willis G. Gregory Society: $1,000 and above
- 1886 Club: $500 - $999
- Mortar and Pestle Club: $250 - $499
- Century Club: $100 - $249
- Loyalty Club: Up to $100

This report includes donors who made gifts and planned gift commitments between July 1, 2010 and June 30, 2011. Every effort has been made to ensure the accuracy of the information. In the event of an error or omission, please contact the SoPPS Development Office at (716) 645-3432 so that we may update our records.
To learn more or to notify the school of a legacy gift that you have planned, please call the development office at (716) 645-3432 or visit our web site at pharmacy.buffalo.edu.

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<tr>
<th>Scholarship Fund</th>
<th>Recipients</th>
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<tr>
<td>AVERSANO-STROZZI SCHOLARSHIP FUND</td>
<td>Thomas Bardos, Allen Barnett, Ralph Behling '39, Thomas Blanchard '61</td>
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<td>JEANNINE BAUDA DEMUTH SCHOLARSHIP</td>
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Alum credits his UB pharmacy education for his business success

Alfonse Muto ’83 knows the value of a great reputation.

After two years at an area community college, he chose to attend the UB School of Pharmacy and Pharmaceutical Sciences “because of its location and reputation. I was driven to become a pharmacist and open my own practice from the beginning,” he said.

After graduation, he did just that, becoming the owner of Pine Pharmacy, with two locations—one in the Walker Center in Williamsville and the other in Niagara Falls.

Using what he learned at UB, he’s built both into businesses with stellar reputations. Later joined by his son, Alfonse Muto, Jr., who graduated from the UB pharmacy school in 2008, Muto ensured the success of the two stores by designing each to offer a unique set of services to its customers.

“I have always looked for niches and decided over 20 years ago that compounding could separate me from chain pharmacies, so I pursued it heavily,” Muto said.

In the Williamsville store, where my son, Alfonse, works, we offer compounding only, with a strong emphasis on nutrition,” Muto said. “My Niagara Falls store is retail, with a strong emphasis on home health care. We also offer other services involving nutrition and bio-identical hormone replacement, to name a few. “

Visitors to the Pine Pharmacy website, www.pinepharmacy.com, can learn more about these services and about the stores.

Muto recently donated $125,000 to name the Pine Pharmacy Pharmaceutical Care Learning Center Classroom in Kapoor Hall, which will open this year as the new home of UB pharmacy.

Muto said he made the gift because he credits his business success to the education he received from UB pharmacy.

“I would not be where I am today if it weren’t for my acceptance to and completion of the pharmacy program,” Muto said. “My donation is a way for me and my family to give back and hopefully inspire others to do the same, as UB enters the 21st century as one of the most respected programs nationally.

A member of the Coordinated Care Network (CCN), Muto has been a loyal supporter of UB pharmacy through the years. He has been a member of the Willis G. Gregory Society since 2001 and Pine Pharmacy also has supported the Annual Student Scholarship Golf Tournament.

Through supporting the new learning center classroom, the solid reputation of Muto and his son, and their businesses, can only grow.
New bioanalytical instrumentation updates international pharmacology training lab

Chiedza Maponga ’88, director of the University of Zimbabwe (UZ) pharmacy program knows that he alone can’t treat the hundreds of thousands of patients with HIV in his native country.

But he believes he can do it with help.

This year, help arrived in the form of four graduate students—three of them AIDS International Training and Research Program fellows—who traveled from Zimbabwe to the University at Buffalo to train in a collaborative program that prepares them to treat HIV/AIDS patients.

Maponga has spent the past decade in Zimbabwe and at UB training such students so they can join him in this critical effort. With approximately one in 10 people in Zimbabwe living with HIV, the country is in the midst of one of the harshest AIDS epidemics in the world.

But Maponga points to the fact that his homeland is the only African nation showing a downward trend in HIV cases in recent years: from a peak of 26.5 percent of the adult population being infected in 1997, the figure has dropped steadily, to 23.7 percent in 2001 and to 14.3 percent in 2010.

He gives partial credit for that drop to the International Center for HIV/AIDS Pharmacotherapy Research and Training (ICHAPRT) program that he and Gene D. Morse, ’80, ’83, associate director of UB’s Center of Excellence and pharmacy professor, founded.

Maponga, a UB pharmacy graduate who returned to Africa to become the first clinical pharmacist in Zimbabwe, and Morse designed the program to produce clinical scientists focused on translational pharmacology and medication management for HIV patients in developing nations.

“Through the program, these professionals gain more knowledge in how best to prescribe antiretrovirals to HIV patients, which contributes to the patients remaining on HIV medications longer,” Morse said.

This year, the four Zimbabwean postgraduate fellows traveled to Buffalo to study the newest methods—and to learn on state-of-the-art instrumentation—thanks to a donation of equipment from Waters Corporation. Valued at $450,000, the equipment—the second such gift from Waters—offers the fellows a rare chance to work with the latest technology used to treat HIV/AIDS.

Maponga and Morse are “tremendously grateful” to Waters for the donation and hope to someday outfit the UZ laboratories in a similar fashion.

Samuel Gavi, one of the four fellows, and a graduate of the UZ pharmacy program, has worked with Maponga since 2001. Gavi now works to develop methods that improve “long-term clinical management of HIV infection as well as associated AIDS-defining illnesses.”

Gavi said his research and travels have shown him that collaboration among countries, no matter how distant or disparate economically, is the best way to fight HIV/AIDS.

“The collaboration between UB and UZ is a unique example of the international research efforts being undertaken worldwide, with emphasis on building capacity through exchange of technology and experience,” he said. “We have come to realize that in spite of the technological gaps that exist, we have a lot of things in common and can therefore develop systems that can be useful in both worlds.”

(Left to right) Row 1: Gene Morse, MaudFarinai Nyamukapa, Takudzwa Mtisi, Primrose Jaravani
Row 2: Samuel Gavi, James Hakim (UZ professor of medicine and director of the clinical research center), Chiedza Maponga
2010-11 ALUMNI ASSOCIATION ACTIVITIES

The first major alumni event held this year was our 2010 Reunion activities. A boat cruise on the Miss Buffalo with a tour of the Buffalo Harbor, Lake Erie and the Niagara River began our reunion activities. Our gala dinner dance at the newly constructed Embassy Suites, downtown concluded festivities for the classes of 1955, 1960, 1985 and 2000. Margaret Quinn ’60 and Myra Boyer ’60 gave heartwarming comments and reflections from their years at the school and how the education they and their classmates received prepared them for their career paths.

Each year, the Alumni Association bestows two awards, the Willis G. Gregory Memorial Award and the Orville C. Baxter Memorial Professional Practice Award. The Gregory Award, the association’s premier award, bears the name of our 4th Dean and is given to an outstanding alumni pharmacist who personifies the ideals of service, integrity and is a consummate pharmacy professional. The Baxter Award bears the name of a long standing faculty member and is given to an outstanding alumni pharmacist who demonstrates high ideals of professionalism and genuine care for patients. We were proud to recognize John Rodgers ’83 as our 2011 Willis G. Gregory Award recipient and Frank Heinrich ’83 as our 2011 Orville C. Baxter Award recipient. John and Frank were recognized for their meritorious contributions to the field of pharmacy at the school’s 2011 Awards Ceremony.

The American Society of Health Systems Pharmacists mid-year meeting is the association’s premier national outreach meeting. Our 2010 ASHP alumni reception was held in Anaheim, CA and over 100 alumni and guests attended. We remind all our alumni members who attend the ASHP mid-year meeting to look for the association’s annual reception. It is a great way to reconnect with your alumni colleagues, faculty and students from the school!

One of the primary missions of the association is support of students. In 2011, the association organized a Farewell Celebration reception for the PharmD Graduates of the Class of 2011. This event was well attended and was a great success! Also in 2011, the association gave six $500 ‘grants-in-aid’ awards to needy PharmD students as well as recognized Samuel Aitken ’11 with an award at the 2011 Commencement in recognition of his valuable contributions to the alumni association.

The alumni association values the support it gives to the school and students as well as the important role it plays in keeping our alumni informed and connected to each other and activities here at the school.

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.
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.
School-Wide Committees

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

Admissions Committee
Jennifer Hess (Chair) Javier Blanco, Fred Doloresco, Karl Fiebelkorn, Cindy Konovitz, (ex officio), William Prescott and Josh Sawyer
Support: Cynthia Acara, Christine Stumm and Mark Sauberan

Assessment Committee
Fred Doloresco (Chair) Jack Brown, Mei Jen Ho, Wojciech Krzyzanski, Mark Sauberan, Aiming Yu

Curriculum Committee
Patty Havard (Chair), Karl Fiebelkorn (ex officio), Cindy Konovitz (ex officio), Nicole Albanese, Peter Brody, Patricia Burch, Deborah Chiarella, Fred Doloresco, Ho Leung Fung, Donald Mager, William Prescott, Jun Qu, Erin Slazak, Robert Wahler, Joseph Sperber (P1), Julie Graham (P2), Heather Rodman (P3), Matthew Schnupp (P4)

Executive Committee
Wayne Anderson (Chair), Joseph Balthasar, Edward Bednarczyk, Kathleen Boje, Rebecca Brierley, Peter Brody, Karl Fiebelkorn, Patty Havard, Jennifer Hess, William Jusko, Cindy Konovitz, Candise Morris, Gene Morse, Leigh Yates

Safety Committee
Alfred Reiman (Chair), Vicki Rink, David Soda, Lee Zak

Student Academic Affairs Committee
Karl Fiebelkorn (Chair), Joseph Balthasar, Kathleen Boje, Nicole Paolini, William Prescott

Tenure and Promotion
Wayne Anderson (ex officio), William Jusko (Co-Chair), Eugene Morse (Co-Chair), Marilyn Morris, Robert Straubinger, Kathleen Tornatore

National Industrial Advisory Council

Wayne Anderson
Dean
UB School of Pharmacy and Pharmaceutical Sciences

Mario Roccì, Jr., ’76, ’81
President, IDS Division
ICON Development Solutions, LLC

Allen Barnett, ’65
President Emeritus
Kinex Pharmaceuticals, LLC

James Baxter, ’84, ’90
Senior Vice President Development
Boehringer Ingelheim Pharmaceuticals, Inc.

Lisa Benincosa, ’93
President, DMPK
Hoffman-LaRoche, Inc.

James Daly, ’84, ’85
Senior Vice President
Amgen, Inc.

Karl Donn, ’79
Vice President, Drug Development
Parion Sciences

James Ermer, ’83
Senior Director, Clinical Pharmacology & Pharmacokinetics
Shire Pharmaceuticals

Ronald Evans, ’69
President
MAPS 4 Biotec, Inc.

Pramod Gupta
Vice President, Quality & Chief Scientific Officer
Coldstream Laboratories

Steven Hansel, ’93
Senior Director
Pfizer, Inc.

George Lasezkay, ’74, ’78
Retired, Corporate Vice President, Corporate Development
Allergan Pharmaceuticals, Inc.

Margaret McGlynn, ’82
President and CEO
International AIDS Vaccine Initiative

Edward McNiff, ’75, ’76, ’83
President
EFM Consulting, LLC

Richard Morrison, ’77, ’83
Executive Director
Merck Research Laboratories

David Panasci
President
DHP Consulting LLC

John Rodgers, ’83
Executive Vice President and COO
Independent Health Association, Inc.

Daniel Salazar, ’89
Vice President, Medicine and Clinical Translation Pharmacology
DaiichiSankyo Pharma

Michael Taylor, ’81
President and CEO
Ensemble Discovery Corporation

Avi Yacobi, ’75
President
DOLE Pharma, LLC
We invite you to join us in celebrating the official dedication and grand opening of our new home, John and Editha Kapoor Hall, on the University’s South (Main Street) Campus.

Thursday, September 27, 2012
Gerhard Levy Distinguished Lectureship in the Pharmaceutical Sciences
• Afternoon: Lecture in Kapoor Hall
• Evening: Dinner Banquet

Registration will begin July 2012.
Questions/Assistance: Office of External Affairs:
phm-alumni@buffalo.edu or 716-645-6965

Friday, September 28, 2012
John and Editha Kapoor Hall Dedication and Grand Opening
• Morning/Afternoon: Dedication ceremonies, tours and other social activities
• Evening: Gala Dinner Dance at the historic Statler City, downtown Buffalo with special reunion activities for the milestone classes of 1957, 1962, 1987 and 2002.