



COLLEGE OF
PHARMACY
UNIVERSITY OF MICHIGAN

INTERACTIONS



2014



IMPACT

For nearly 140 years, the University of Michigan College of Pharmacy has had one overarching goal: to make a profound, positive difference in the health of the world. Our success in achieving this goal is one reason U-M's pharmacy programs are consistently ranked among the best in the world.

The mission of the University of Michigan College of Pharmacy is to prepare students to become pharmacists and pharmaceutical scientists who are leaders in any setting. The College provides a quality education that effectively integrates critical thinking, problem-solving, and leadership skills. Research in the pharmaceutical, social, and clinical sciences and its translation into health care is a key component of our mission. The College achieves its mission by striving for excellence in education, service, and research, all directed toward enhancing the health and quality of life of the people of the State of Michigan, the nation, and the international community.

INTERACTIONS

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WE ARE A GLOBAL LEADER IN PHARMACY AND PHARMACEUTICAL EDUCATION, RESEARCH, AND PRACTICE.

WELCOME

Anyone paying attention will note that the College has (and is!) going through a number of changes: we have a new dean, we’ve remodeled the administrative suite and lobby, our curriculum continues to evolve, and many of our seemingly timeless faculty have retired with new faces joining our ranks.

You will also note changes in how we communicate with our alumni and friends – we have a quarterly *eInteractions* electronic newsletter, a more robust website, a bigger presence on social media and this publication, *Interactions*, has a different look and feel.

The great French poet and novelist Victor Hugo said this about change: “Change your opinions, keep to your principles; change your leaves, keep intact your roots.”

Our supporters can rest assured that we remain committed to the

College’s long traditions of excellence and leadership as we pursue our educational, research, and service missions. Dean **Jim Dalton** and the entire faculty and staff look forward to building on the College’s rich history, while preparing future researchers and pharmacists with the critical skills needed to navigate ever-changing healthcare and scientific challenges.

We’ll never forget our roots, and we will always keep sight of our principles.



IMPACT

Power Vision for the Future

It is an honor to serve as Dean of the University of Michigan College of Pharmacy. In my short tenure, I've come to greatly appreciate the traditions of excellence that have made the College an international leader for nearly 140 years.

I take my responsibility to uphold these traditions very seriously. The faculty and I are committed to delivering graduate and professional education at the highest levels. We are actively engaging with Michigan's other health science schools to create an innovative platform for interprofessional education. We are also bolstering our research efforts in anticipation of growing global public health priorities.

I am fortunate that I am following Dr. Frank Ascione as Dean. His strategic vision has laid the groundwork to meet so many of the challenges coming for pharmacists and researchers.

Since stepping into this role in September, I've met many of our alumni who emphasized that the College needs to remain in its international leadership position and that we continue to engage the alumni as partners in our education,

research, and service missions. I can assure you, I consider our alumni to be critical to the College's continued success.

We are also deeply committed to attracting the strongest possible students for our programs. In addition to our strong faculty and international reputation, we have an unmatched financial aid program for professional students, and we're working daily to add to this support. We're committed to high-end research opportunities for our graduate students while preparing them for an ever more challenging job market.

My family and I are feeling very much at home in Ann Arbor and are grateful to the fine faculty and staff who have welcomed us. We look forward to embracing all the Michigan traditions in the coming years. Thank you for your ongoing support, and please feel free to reach out if I can be of any assistance.



Dean Jim Dalton took over as Dean of the College on September 1, 2014 from former Dean Frank Ascione.

For information about Dean Dalton's background, see pharmacy.umich.edu/new-dean.

A Legacy of Leaders

Deans of the College

Albert B. Prescott
Dean, 1876-1905

Julius O. Schlotterbeck
Dean, 1905-1917

Alviso B. Stevens
Dean, 1917-1919

Henry Kraemer
Dean, 1919-1920

Edward H. Kraus
Acting Dean, 1920-1923
Dean, 1923-1933

Howard B. Lewis
Director, 1933-1947

Charles H. Stocking
Acting Director, 1947-1949
Dean, 1949-1951

Thomas D. Rowe
Dean, 1951-1975

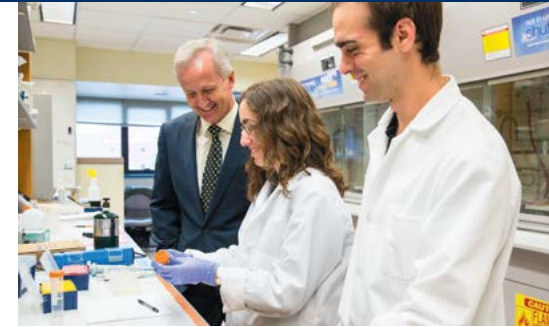
Ara G. Paul
Dean, 1975-1995

James W. Richards
Dean, 1996-1998

George L. Kenyon
Dean, 1998-2004

Frank J. Ascione
Dean, 2004 – 2014

James T. Dalton
Dean, 2014 –



Dean Ascione hands over the reins to Dean Dalton.



“ We look forward to embracing all the Michigan traditions in the coming years. Thank you for your ongoing support. ”

– Dean Jim Dalton

A Note from Dean Ascione

When I was appointed Dean at the University of Michigan College of Pharmacy in 2004, I remarked that I felt “honor and duty bound to give something back.” It was a pleasure fulfilling this promise, and I truly appreciate the opportunity I’ve had to work with our faculty, staff, students, alumni, and friends. The wonderful relationships I developed within each of these groups are a welcome reminder of the closeness of our Pharmacy family.

During my tenure as Dean, the College accomplished many important undertakings in fulfilling its education, research, and service missions. We revised our PharmD curriculum, expanded our research centers of excellence, and strengthened our relationships at the University of Michigan Hospital and Health Centers. We invested over \$10 million into laboratories and classrooms and are able to invest about \$2.5 million annually in scholarships and fellowships. As a result of these efforts, our faculty developed award-winning innovations in pharmacy practice, education, and pharmaceutical sciences. Our students graduated well-prepared and accepted exciting job opportunities in our sciences and profession. These accomplishments en-

abled us to remain a highly regarded institution, which continues to be widely recognized for its innovation and excellence.

There are numerous colleagues to whom I owe my gratitude. Many members of the faculty and staff provided great help and advice through the years. Our alumni offered an invaluable perspective on the importance of the College to their careers. Special thanks are directed toward two of my longtime mentors: **Jim Richards** and **Ara Paul**. Their extensive history of being stellar citizens of the College of Pharmacy set the standard for my actions as Dean.

I’m also grateful for the love and support of my children, **Wendy** and **Mark**, during my Deanship and the tender memory of my late wife, **Nancy**, helping me to successfully begin in this role. I look forward to many future adventures with family and friends (including the new ones I made as Dean) – especially **Beverly**.

I’m very excited about my replacement, Dr. **Jim Dalton**, who brings a wide range of



Frank J. Ascione

BSP Pharm’69, PharmD’73, MPH’77, PhD’81

experiences from both academia and the private sector. I’m confident that he’ll build on the great traditions existing at the University of Michigan College of Pharmacy.

I am happily returning to my role as alumnus and faculty member. I will continue as a less visible participant in our enduring quest to ensure that our College remains one of the best in the nation. That’s an ambitious goal. It constantly has been. But we’ve always risen to the challenge, and I have no doubt that we will continue to do so.

Thank you all for your support and Go Blue!

Dean Ascione Receives Michigan Pharmacist of the Year Award

At the 2014 MPA Annual Convention & Exposition, former Dean **Frank Ascione** was awarded the Michigan Pharmacist of the Year Award, Michigan's highest honor in the pharmacy profession.

Frank's recognition as a leader in pharmacy education and administration spans both national and international areas. His career has done the same, from early pharmacy practice and involvement at the American Pharmaceutical Association (APhA) to numerous research publications and his most previous role as dean at the University of Michigan College of Pharmacy – one of the leading colleges of pharmacy in the nation.

pharmacy.umich.edu/faculty-news

Class of 2014 Graduates Celebrate at Commencement

The College's Commencement was held on Saturday, April 26, 2014, with over 900 friends and family members in attendance. A total of 90 students graduated this year, who nominated **Mindy Prasad**, PharmD'14, as their student speaker and **Adam Loyson**, PharmD'14, to lead the class in reading the Oath of a Pharmacist.

U-M alumna **Lynda S. Welage**, BSP Pharm'81, PharmD, FCCP, delivered this year's commencement address. Dr. Welage is the former associate dean of the University of Michigan College of Pharmacy and is currently Professor and Dean of the University of New Mexico College of Pharmacy. She was on the U-M faculty from 1988 to 2011, serving as Associate Dean beginning in 2004.

The 2014 Alumni Distinguished Lifetime Achievement Award was presented to **Harvey L. Kaplan**, BSP Pharm'65, JD. The Alumni Distinguished Lifetime Achievement Award honors alumni who have made significant lifetime contributions in their profession or to society through practice, research, education, or public service. Mr. Kaplan is currently a partner of Shook, Hardy & Bacon in Kansas City, Missouri and the Chair Emeritus of the Pharmaceutical and Medical Device Litigation Division. Mr. Kaplan has successfully tried many high profile pharmaceutical industry cases in many jurisdictions. He is a fellow of the International



Academy of Trial Lawyers, the International Society of Barristers, the American Bar Foundation, and the Litigation Counsel of America.

Jolene R. Bostwick, PharmD'04, BCPS, BCPP, received the College's Teaching Excellence Award. This award recognizes exceptional teaching in the PharmD and PhD programs. Dr. Bostwick is currently a Clinical Associate Professor and clinical pharmacy specialist in psychiatry at the University of Michigan. She is an active leader in the College of Psychiatric and Neurologic Pharmacists, serving as Chair of the Student Committee at the national level.

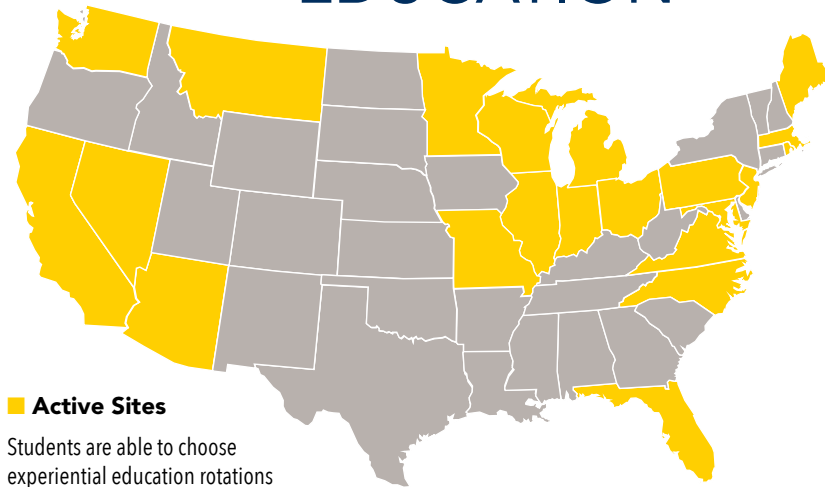
"This was the last Commencement Ceremony that I oversaw as Dean. It was very gratifying to witness their success for a final time. Thank you for your efforts in creating a very special memory for me and the graduating students," states former Dean **Frank Ascione**.

Fourteen PhD students graduated this year at a separate ceremony on May 2, 2014 which was hosted by the Rackham Graduate School.

Congratulations to the Class of 2014!

pharmacy.umich.edu/more-news

EXPERIENTIAL EDUCATION



Active Sites

Students are able to choose experiential education rotations in 23 states in addition to China, Puerto Rico, and the United Kingdom.

581 active preceptors
200 teaching sites

Our Experiential Education program is designed to help students develop the professional attitudes and competencies needed to practice effectively in any entry level, general pharmacy setting. We achieve this goal by providing experiences for students in real-life settings that expose them to pharmacy practice, increase their awareness of health care issues, and enhance their critical thinking and patient care skills. Experiential education is a vital component of pharmacy education at the University of Michigan College of Pharmacy and comprises approximately one-third of the PharmD curriculum.

We offer a wide variety of pharmacy practice experiences at the University of Michigan Health System (UMHS), a health system recognized nationally and internationally for excellence in patient care, education, and research.



We also partner with many other hospitals, health systems, community pharmacies, and other organizations to provide quality learning sites for students to gain experience and put into practice what they learn throughout the curriculum. We are currently affiliated with nearly 600 experienced, dedicated preceptors. At more than 200 teaching sites in Michigan and across the country, students acquire the skills, judgment, and confidence to become leaders in the pharmacy profession.

Precepting rotation specialties:

| | | | | | | | |
|--|--|----------------------------|---|-----------------------------|--------------------------------|-------------------------------------|--------------------------------|
| Administration | Administration - Technology Systems | Critical Care | Industry | Medication Safety / Quality | Pain Management | Pharmacy Association | Toxicology / Poison Control |
| Administration - Ambulatory Care | Ambulatory Care | Disease Management | Infectious Diseases | Nephrology | Patient Education | Primary Care | Trauma/Burn/ Emergency Surgery |
| Administration - Chain Pharmacy | Anticoagulation | Emergency Medicine | Infectious Diseases Antimicrobial Stewardship | Neurology | Pediatrics | Psychiatry | |
| Administration - Compounding / Sterile Preparation | Bone Marrow Transplantation | Food & Drug Administration | Internal Medicine | Nuclear Medicine | Pediatrics Cardiology | Research & Development | |
| Administration - Health System / Hospital | Cardiology | Geriatrics | International | Nutrition Support | Pediatrics Critical Care | Solid Organ Transplantation | |
| Administration - Home Infusion | Community Pharmacy Management / Leadership | HIV/AIDS | Investigational Drug Services | Oncology | Pediatrics Infectious Diseases | Surgery | |
| | Compounding | Home Infusion | Long Term Care | Operating Room Pharmacy | Pediatrics Oncology | Teaching Skills | |
| | | Hospice Care | Managed Care | Outcomes | Pediatrics Surgery | Technology / Healthcare Informatics | |
| | | Indian Health Service | | | Pharmacokinetics | | |

College Research Ranks 10th Among All Colleges of Pharmacy

Each year, the American Association of Colleges of Pharmacy (AACP) compiles a list ranking NIH/Federal Funding awards, which compares colleges of pharmacy across the country. The College evaluates its research success through several key indicators, this ranking being one of them.

We are pleased to note, for the second consecutive year, the U-M College of Pharmacy was ranked 10th among all colleges of pharmacy. This is our highest ranking since 1998.

“Unfortunately, AACP no longer compiles the funding per faculty measure, which accounts for the relative size of the institution. Since we are one of the smallest colleges in the country among research intensive Universities, I am confident that our ranking in that category would be much higher,” states Dean **Jim Dalton**.

The number of grants submitted for the 2013-2014 academic year reached an all-time high of 180, compared to the previous high of 137.

Eighty-eight of these were to NIH, which presents another all-time high for the College.

“With such a high number of submitted grants, I think we will continue to experience future success. Congratulations to our faculty who devoted the time and effort in writing grants, as well as the staff that facilitated the process,” ends Dean **Jim Dalton**.

pharmacy.umich.edu/research-news



Faculty Impact

11:1
STUDENT/FACULTY
RATIO



37 REGULAR
INSTRUCTIONAL
FACULTY

28 CLINICAL
FACULTY

12 RESEARCH
FACULTY

2014-15 College of Pharmacy Faculty

Clinical, Social, and Administrative Sciences

Alaniz, Cesar
Ascione, Frank J.
Bagozzi, Richard P.
Balkrishnan, Rajesh
Bleske, Barry E.
Bostwick, Jolene R.
Carver Peggy L.
Choe, Hae Mi
Christen, Catherine
Clark, John S.
Diez, Heidi L.
Dorsch, Michael P.
Ellingrod, Vicki L.
Erickson, Steven R.
Eschenauer, Gregory A.
Farris, Karen B.
Frame, David G.
Guthrie, Sally K.

Hertz, Daniel L.
Kelling, Sarah E.
Klein, Kristin C.
Kraft, Michael D.
Kraft, Shawna L.
Marcelino, Marie A.
Mason, Nancy A.
Mehta, Varsha B.
Mohammad, Rima A.
Mueller, Bruce A.
Park, Jeong Mi "Jamie"
Redic, Kimberly A.
Regal, Randolph E.
Remington, Tami L.
Rockafellow, Stuart D.
Shimp, Leslie A.
Stevenson, James G.
Stringer, Kathleen A.

Stumpf, Janice L.
Sweet, Burgunda V. "Gundy"
Tingen, Jeffrey M.
Wagner, Deborah S.
Walker, Paul C.
Wells, Trisha D.
Zhu, Haojie

Medicinal Chemistry

Beleh, Mustapha A.
Carlson, Heather A.
Cresswell, Ronald M.
Dunbar, James B., Jr.
Garcia, George A.
Garner, Amanda L.
Kirchhoff, Paul D.
Larsen, Scott D.
Lomize, Andrei L.
Mosberg, Henry I.
Neamati, Nouri
Pogozheva, Irina D.
Schwendeman, Anna A. S.
Sherman, David H.
Showalter, Hollis D. H.
Soellner, Matthew B.
Wang, Shaomeng
Woodard, Ronald W.

Pharmaceutical Sciences

Amidon, Gordon L.
Amidon, Gregory E.
Chen, Hongwei
Cheng, Wei
Chertok, Beata
Dalton, James T.
Feng, Meihua "Rose"
Lee, Kyung-Dall
Moon, James J.
Rodriguez-Hornedo, Nair
Rosania, Gustavo R. "Gus"
Schwendeman, Steven P.
Smith, David E.
Sun, Duxin
Tsume, Yasuhiro
Yang, Victor C. M.

NOTABLE FACULTY AWARDS



A college's reputation and success is dependent on the quality of its faculty. At the University of Michigan College of Pharmacy, we have world class researchers and educators. We're proud of our faculty and their achievements – evidenced by some of the awards bestowed upon our faculty over the last year.

| | |
|--------------------------------|---|
| Bagozzi, Richard | Medal of Honor for Science, University of Bologna |
| Balkrishnan, Rajesh | Service award from the Agency for Healthcare Research and Quality for completion of study section service 2011-2013, US Government |
| Beleh, Mustapha | Special Recognition for Outstanding Teaching, University of Michigan College of Pharmacy Students Appreciation Award, University of Michigan College of Pharmacy |
| Bostwick, Jolene Renee | Teaching Excellence Award, P1 Student Appreciation Award, University of Michigan College of Pharmacy, Phi Delta Chi |
| Carver, Peggy | P3 Class Recognition Award, University of Michigan College of Pharmacy Students, Class of 2015 |
| Choe, Hae Mi | Center for Healthcare Research & Transformation Fellowship, Center for Healthcare Research & Transformation (CHRT), 2014 Pinnacle Award, American Pharmacists Association (APhA) Foundation |
| Clark, John | Phi Lambda Sigma - Delta Kappa Chapter Alumni of the Year, Phi Lambda Sigma |
| Dorsch, Michael | Fellow of American Associations of Colleges of Pharmacy, American Associations of Colleges of Pharmacy (AACCP) |
| Guthrie, Sally | Judith Sacklad Award for College of Psychiatric and Neurologic Pharmacists, College of Psychiatric and Neurologic Pharmacists (CPNP) |
| Hertz, Daniel | Graduate Education Advancement Board Impact Award, University of North Carolina |
| Moon, James | Best Poster Award, America Society of Nanomedicine |
| Rodriguez-Hornedo, Nair | 2013 Visiting Researcher Program, Graduate Program in Pharmacy, Brazilian Federal Agency for the Support and Evaluation of Graduate Education |
| Stevenson, James | Honorary Resident, University of Wisconsin Department of Pharmacy Honorary Member, Phi Lambda Sigma Delta Kappa Chapter |
| Stringer, Kathleen | Michigan Institute for Clinical and Health Research Distinguished Clinical and Translational Research, Mentor, Michigan Institute for Clinical & Health Research (MICHR) |
| Wagner, Deborah | 2014 UMHS Learning Catalyst Award: The Poke Program, University of Michigan Health System (UMHS) |
| Woodard, Ronald | Top Five Innovations in the WORLD, <i>The Scientist</i> |
| Yang, Victor Chi-Min | International Research Collaboration Award |

Notable Faculty Publications

Clinical, Social, and Administrative Sciences

- Fox ER, **Sweet BV**, Jensen V. Drug shortages: A complex health care crisis. *Mayo Clin Proc* 2014;89:361-373.
- **Burghardt KJ**, Grove TB, **Ellingrod VL**. Endothelial nitric oxide synthetase genetic variants, metabolic syndrome and endothelial function in schizophrenia. *J Psychopharmacol* 2014;28:349-356.
- Chrischilles EA, Doucette W, **Farris KB**, Lindgren S, Gryzlak B, Rubenstein L, Youland K, Wallace RB. Medication Therapy Management and Complex Patients With Disability: A Randomized Controlled Trial. *Ann Pharmacother* 2014;48:158-167.
- Stuckey L, Clark Ojo T, **Park JM**, Annesley T, Bartos C, Cibrik DM. Mycophenolic acid pharmacokinetics in lung transplant recipients with cystic fibrosis. *Ther Drug Mon* 2014;36:148-151.
- **Eschenauer GA**, Nguyen MH, Shoham S, Vazquez JA, Morris AJ, Pasculle WA, Kubin CJ, Klinker KP, Carver PL, Hanson KE, Chen S, Lam SW, Potoski BA, Clarke LG, Shields RK, Clancy CJ. Real-world experience with echinocandin MICs against *Candida* species in a multicenter study of hospitals that routinely perform susceptibility testing of bloodstream isolates. *Antimicrob Agent Chemother* 2014;58:1897-1906.
- **Bleske BE, Remington TL, Wells TD; Dorsch MP, Guthrie SK, Stumpf JL, Alaniz MC, Ellingrod VL, Tingen JM**. Team-based learning to improve learning outcomes in a therapeutics course sequence. *Am J Pharm Educ* 2014;78.
- **Dorsch MP**, Lose JM, DiDomenico RJ. The Effect of Cardiovascular Credentialed Pharmacists on Process Measures and Outcomes in Myocardial Infarction and Heart Failure. *Pharmacother* 2014; 34:803-808.
- Evans CR, Karnovsky A, Kovach MA, Standiford TJ, Burant CF, **Stringer KA**. Untargeted LC-MS metabolomics of bronchoalveolar lavage fluid differentiates acute respiratory distress syndrome from health. *J Proteome Res* 2014;13:640-649.
- **Zhu HJ**, Brinda BJ, Chavin KD, Bernstein HJ, Patrick KS, Markowitz JS. An assessment of pharmacokinetics and antioxidant activity of free silymarin flavonolignans in healthy volunteers: A dose escalation study. *Drug Metab Disposition* 2013;41:1679-1685.
- **Guthrie SK; Erickson SR**, Lau MS. Comparison of the prevalence and treatment of hypertension in two populations in the United States: Masters swimmers versus the NHANES population. *J Sports Sci* 2013;31:930-935.
- Butterfield JM, **Mueller BA**, Patel N, Cardone KE, Grabe DW, Salama NN, Lodise TP. Daptomycin pharmacokinetics and pharmacodynamics in a pooled sample of patients receiving thrice-weekly hemodialysis. *Antimicrob Agent Chemother* 2013;57:864-872.
- Doucette WR, Zhang Y, Chrischilles EA, Pendergast JF, Newland BA, **Farris KB**, Frank J. Factors affecting Medicare Part D beneficiaries' decision to receive comprehensive medication reviews. *J Am Pharm Assoc* 2013;53:482-487.



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FACULTY
PUBLICATIONS
IN 2014



experts.umich.edu

Medicinal Chemistry

- Kim K, Kim JM, Kim JS, Choi J, Lee YS, **Neamati N**, Song JS, Heo K, An W. VprBP Has Intrinsic Kinase Activity Targeting Histone H2A and Represses Gene Transcription. *Molecular Cell* 2013;52:459-467.
- **Mosberg HI**, Yeomans L, Anand JP, Porter V, Sobczyk-Kojiro K, Traynor JR, Jutkiewicz EM. Development of a bioavailable μ opioid receptor (MOPr) agonist, δ opioid receptor (DOPr) antagonist peptide that evokes antinociception without development of acute tolerance. *J Med Chem* 2014;57:3148-3153.
- Negretti S, Narayan ARH, Chiou KC, Kells PM, Stachowski JL, Hansen DA, Podust LM, Montgomery J, **Sherman DH**. Directing group-controlled regioselectivity in an enzymatic C-H bond oxygenation. *J Am Chem Soc* 2014;136:4901-4904.
- Breen ME, Steffey ME, Lachacz EJ, Kwarcinski FE, Fox CC, **Soellner MB**. Substrate activity screening for kinases: Discovery of small molecule substrate-competitive c-Src inhibitors. *Angewandte Chemie* 2014;126:7130-7133.
- Lundquist MR, Storaska AJ, Liu TC, **Larsen SD**, Evans T, Neubig RR, Jaffrey SR. Redox modification of nuclear actin by MICAL-2 regulates SRF signaling. *Cell* 2014;156:563-576.
- Raveh A, Deleka PC, Dobry CJ, Peng W, Schultz PJ, Blakely PK, Tai AW, Matainaho T, Irani DN, **Sherman DH**, Miller DJ. Discovery of potent broad spectrum antivirals derived from marine actinobacteria. *PLoS ONE* 2013;8.
- Khazanov NA, **Carlson HA**. Exploring the Composition of Protein-Ligand Binding Sites on a Large Scale. *PLoS Computational Biology* 2013;9.
- Molodtsov V, Nawarathne IN, Scharf NT, Kirchoff PD, **Showalter HD**, Garcia GA, Murakami KS. X-ray crystal structures of the Escherichia coli RNA polymerase in complex with benzoxazinorifamycins. *J Med Chem* 2013;56:4758-4763.
- Tripathi A, Schofield MM, Chlipala GE, Schultz PJ, Yim I, Newmister SA, Nusca TD, Scaglione JB, Hanna PC, Tamayo-Castillo G, **Sherman DH**. Baulamycins A and B, broad-spectrum antibiotics identified as inhibitors of siderophore biosynthesis in Staphylococcus aureus and Bacillus anthracis. *J Amer Chem Soc* 2014;136:1579-1586.
- Hansen DA, Rath CM, Eisman EB, Narayan ARH, Kittendorf JD, Mortison JD, Yoon YJ, **Sherman DH**. Biocatalytic synthesis of pikromycin, methymycin, neomethymycin, novamethymycin, and ketomethymycin. *J Amer Chem Soc* 2013;135:11232-11238.

Pharmaceutical Sciences

- Zhao Y, Liu L, Sun W, Lu J, McEachern D, Li X, Yu S, Bernard D, Ochsenein P, Ferey V, Carry JC, Deschamps JR, **Sun D**, Wang S. Diastereomeric spirooxindoles as highly potent and efficacious MDM2 inhibitors. *J Amer Chem Soc* 2013;135:7223-7234.
- Dahan A, Wolk O, Kim YH, Ramachandran C, Crippen GM, Takagi T, Bermejo M, **Amidon GL**. Purely in silico BCS classification: science based quality standards for the world's drugs. *Mol Pharm* 2013;10:4378-90.
- Kim JH, Song H, Austin JL, **Cheng W**. Optimized Infectivity of the Cell-Free Single-Cycle Human Immunodeficiency Viruses Type 1 (HIV-1) and Its Restriction by Host Cells. *PLoS One* 2013;8:e67170.
- Li AV, **Moon JJ**, Abraham W, Suh H, Elkhader J, Seidman MA, Yen M, Im EJ, Foley MH, Barouch DH, Irvine DJ. Generation of effector memory T cell-based mucosal and systemic immunity with pulmonary nanoparticle vaccination. *Sci Transl Med* 2013;5:204ra130.
- Min KA, Talattof A, Tsume Y, **Stringer KA**, Yu JY, Lim DH, **Rosania GR**. The extracellular microenvironment explains variations in passive drug transport across different airway epithelial cell types. *Pharm Res* 2013;30:2118-32.
- Posada MM, **Smith DE**. In vivo absorption and disposition of cefadroxil after escalating oral doses in wild-type and PepT1 knockout mice. *Pharm Res* 2013;30:2931-9.
- Shin MC, Zhang J, David AE, Trommer WE, Kwon YM, Min KA, Kim JH, **Yang VC**. Chemically and biologically synthesized CPP-modified gelonin for enhanced anti-tumor activity. *J Control Release* 2013;172:169-78.
- Iyer R, Hegde S, Zhang YE, Dinunzio J, Singhal D, Malick A, **Amidon GJ**. The impact of hot melt extrusion and spray drying on mechanical properties and tableting indices of materials used in pharmaceutical development. *Pharm Sci* 2013;102:3604-13.
- Min KA, Shin MC, Yu F, Yang M, David AE, **Yang VC**, **Rosania GR**. Pulsed magnetic field improves the transport of iron oxide nanoparticles through cell barriers. *ACS Nano* 2013;7:2161-71.



Dr. Wei Cheng,
BS'95, PhD'02

Ara G. Paul Assistant Professor
of Pharmaceutical Sciences,
College of Pharmacy

Dr. Wei Cheng's Laboratory Develops Tools Using Optical Tweezers to Identify the Individuality of HIV

HIV-infected people carry many different HIV viruses and all have distinct personalities—some much more vengeful and infectious than others. Yet, despite the breadth of infectivity, roughly 76% of HIV infections arise from a single virus. Now, scientists believe they can identify the culprit with very specific measurements of the quantities of a key protein in the HIV virus.

Quantifying this key protein may reveal which of the many viruses present actually caused the infection.

The University of Michigan study is thought to be the first in which researchers were able to capture HIV at the single-particle level and measure with molecular resolutions, said principal investigator Dr. **Wei Cheng** of the U-M College of Pharmacy. Dr. Cheng's group found that the HIV virus particles have different quantities of a key protein that enables virulence, and the protein-rich virus particles were more infectious than the others.

"There were significant molecular differences in the HIV viral particles—some were very dangerous and infectious, and some were more tame. The virus was very heterogeneous," Dr. Cheng said. "Our technique lets us see differences down to the single molecule level, so if one virus particle differs from another by even one molecule, our instrument can detect that."

"Now that scientists can measure molecular differences in HIV viral particles, there's a possibility that drugs could be developed to target the molecular features present in the more virulent strains", he said.

Dr. Cheng's lab developed and used a new optical technique that gives rise to research directions for how scientists can now infect individual cells with single HIV viral particles to determine the particle's virulence. This technique also has the potential for sorting of viruses and application in other deadly viruses. Ultimately, Dr. Cheng said they hope to learn which strains of HIV contain the most dangerous viral particles most likely to infect healthy cells.



Dr. Greg Amidon
BS'74, MS'78, PhD'79

Research Professor of
Pharmaceutical Sciences,
College of Pharmacy, and
Program Director of the
Pharmaceutical Engineering
Program, College of Engineering

Dr. Greg Amidon Elected as AAPS Executive Council President-Elect

Dr. Greg Amidon has been elected as the Executive Council President-Elect for the American Association of Pharmaceutical Scientists (AAPS).

Dr. Amidon received his BS in medicinal chemistry and his PhD in pharmaceutical chemistry from the University of Michigan. After 28 years in the pharmaceutical industry, he returned to the College of Pharmacy in 2007 as a research professor of pharmaceutical sciences. He currently directs the Pharmaceutical Engineering program, jointly sponsored by the College of Engineering and the College of Pharmacy.

He has held various research positions in R&D and is recognized for his expertise in the physical, chemical, and mechanical property characterization of active pharmaceutical ingredients, excipients, and products, as well as the development of scientific strategies for oral solid dosage form development. His research interests also include

oral bioperformance assessment and in vivo predictive dissolution methodology development.

Dr. Amidon has served on the USP Council of Experts since 1990. He is a member and Fellow of the American Association of Pharmaceutical Scientists and a past recipient of the Ebert Prize from the American Pharmaceutical Association.

“AAPS has always been a very important part of my professional career and has contributed immeasurably to my development as a scientist. I look forward to working closely with AAPS leadership and staff to advance AAPS’ mission of serving pharmaceutical scientists with great scientific programming, ongoing educational initiatives, and professional development opportunities,” states Dr. Amidon.

“Dr. Amidon is a prime example of the outstanding alumni from our graduate programs in the College of Pharmacy at the University of Michigan. We at the College congratulate him on these achievements and look forward to his continued contributions to AAPS and the College of Pharmacy,” states Dean **Jim Dalton**.

pharmacy.umich.edu/faculty-news



Dr. Hae Mi Choe,
BS'89, PharmD'93

Clinical Associate Professor,
College of Pharmacy, and
Director of Pharmacy Innovations
and Clinical Practices, UMHS

Dr. Hae Mi Choe Receives APhA Foundation 2014 Pinnacle Award

Dr. Hae Mi Choe has been selected to receive the APhA Foundation's 2014 Pinnacle Award for Individual Career Achievement.

In 1998, the American Pharmacists Association (APhA) Foundation's Quality Center established the Pinnacle Awards to celebrate significant contributions to the medication use process. The Individual Career Achievement Award recognizes individuals whose actions have demonstrated exceptional leadership in enhancing health care quality and medication use.

Dr. Choe is currently a faculty member at the University of Michigan College of Pharmacy, and she serves as the Director of Pharmacy Innovations and Clinical Practices for Faculty Group Practice (FGP), the University of Michigan Health System's (UMHS) physician group practice.

For the past 15 years, Dr. Choe has been a pioneer in advancing the role of pharmacists in the ambulatory care setting and within organized systems of care, such as the Patient Centered Medical Home (PCMH) and Accountable Care Organizations (ACOs). At the University of Michigan, she has served as the primary leader of these pharmacy services, which have become a model nationally.

"We are using our clinical expertise, but integrating and tying into the current health care delivery model to improve overall care of our patients. Pharmacists have been recognized as a valuable member of the care team in the patient centered medical home," states Dr. Choe.

"I have been privileged to work with Dr. Choe and to witness the amazing impact she has had on the advancement of pharmacy in the ambulatory care setting within our health system, the state, and nationally. Dr. Choe has been very active in sharing her experience with others so that they can also develop their programs more effectively," states former Associate Dean **James Stevenson**. Dr. Choe earned her PharmD in 1993 from the

University of California, San Francisco, and completed her pharmacy practice residency with Kaiser Permanente in Los Angeles in 1994. Following that, Dr. Choe spent five years overseas, where she developed and implemented anticoagulation and asthma services for the first time at the Samsung Medical Center in Seoul, South Korea.

In 1999, Dr. Choe joined the University of Michigan to develop ambulatory clinical services at the East Ann Arbor Health Center. In her leadership role, Dr. Choe and colleagues created a group-practice model at 14 of the U-M Hospitals and Health Centers. Dr. Choe has also developed a reimbursement process for clinical pharmacy services.

“I feel very humbled and grateful for the support I have received for this award,” states Dr. Choe.

“Dr. Choe is one of the premier ambulatory care pharmacists in the country and a recognized leader and educator. Her leadership has been exceptional and has resulted in significant improvements in the health outcomes of our patients,” according to former Dean **Frank Ascione**.

“Dr. Choe is someone who provides thought leadership and develops actionable efforts to define and advance the emerging role of the pharmacist as a health care provider. She consistently challenges the status quo and seeks to

influence and evolve existing health care industry practices and norms to enable our industry to better serve our patients’ complex needs for improved medication management and holistic care planning. In the time I have collaborated with her, I have been able to observe and experience the meaningful influence she has had on payers, physicians, and community pharmacy to lead the effort to better align incentives and collaborate in the interests of patient care. Specifically, her direct advocacy and leadership were instrumental to bringing the joint collaboration that we are currently working on together to fruition,” explains **Jason Todd Peters**, Director of Retail Pharmacy Strategic Product Development at CVS/Pharmacy.

“The pharmacist care model that Hae Mi has developed will serve as a model on how to effectively integrate pharmacist care into medical teams. Her willingness to share her approach and successes with others, as well as develop new practitioners who understand how effectively pharmacists can provide direct patient care within a medical team, is truly admirable,” states **Laurie Wesolowicz**, PharmD’86, Director II of Pharmacy Services Clinical at Blue Cross Blue Shield of Michigan.

Congratulations to Dr. Choe on this significant honor recognizing her accomplishments!

“ I intend to practice ambulatory care pharmacy with a focus on transitions of care. It has been my hope since I started pharmacy school to find a niche where I can help elderly patients when they are most vulnerable to medication errors - in their transition from the hospital

back to their homes.”
– PharmD Candidate



Dr. Scott Larsen,
BS'79, PhD'83

Joseph Burckhalter Collegiate
Professor of Medicinal
Chemistry, and Director of the
Vahlteich Medicinal Chemistry
Core, College of Pharmacy

Dr. Scott Larsen Receives 2014 Collegiate Research Professorship Award

The Office of Research at the University of Michigan has established this award to recognize members of the Research Faculty for significant scholarly contributions to their field of study. Specifically, this honor recognizes extraordinary contributions in research, education, and service, along with a strong international reputation and connections beyond the university. The high degree of enthusiasm shown by the recommenders is also a deciding factor.

Dr. Scott Larsen spent over 22 years in the pharmaceutical industry, specifically at The Upjohn Co., Pharmacia, and Pfizer, as a synthetic medicinal chemist, rising to the rank of Associate Director and Fellow. Dr. Larsen joined the U-M College of Pharmacy in 2007.

Dr. Larsen received Pharmacia & Upjohn Special Recognition Awards in 1998 and 2000, was

a charter member of the Pharmacia Fellows in 2001, and received a Pfizer Achievement Award in 2007. He is a member of the Medicinal Chemistry Division of the American Chemical Society and has served on the National Institutes of Health (NIH) Special Emphasis Panels for NIDA and NCATS.

“The past seven years have been an amazing experience. I’ve had the privilege of working on many more collaborations than I ever did in industry, and on a much greater diversity of therapeutic targets. What has been particularly gratifying is to see how my industry experience in medicinal chemistry has complemented the world-class biology of U-M researchers to advance important projects. I gratefully acknowledge the College of Pharmacy for its enduring support, the staff and students of the VMCC for all their hard work, and of course the many outstanding scientists I have collaborated with at U-M without whose generosity and expertise this award would not have been possible,” states Dr. Larsen.

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Dr. Rick Bagozzi,
MS'69, BSEE'70, MBA'72,
PhD'76, MA'05

Professor of Social and
Administrative Sciences,
College of Pharmacy

Dr. Rick Bagozzi Hailed Among “The World’s Most Influential Scientific Minds 2014”

Thompson Reuters determines some of the best and brightest scientific minds, all by analyzing citation data over the last 11 years to identify those who published the highest impact work. These individuals are influencing the future direction of their fields, and of the world.

Dr. **Rick Bagozzi** is currently Professor of Social and Administrative Sciences at the College of Pharmacy. His honor is based on objective opinions of the scientific community, which is very different from one based on nominations and subjective evaluations.

The section of researchers lists individuals who published the greatest number of highly cited papers in one of the 21 broad fields, 2002-2012. Highly cited papers rank in the top 1% by citations for their field and year of publication. It is precisely this type of recognition, recognition by peers in the form of citations, that makes their status meaningful. The identification of

these individuals is rooted in the collective, objective opinions of the scientific community.

“These researchers are, undoubtedly, among the most influential scientific minds of our time,” the report states.

Dr. Bagozzi also holds an appointment as the Dwight F. Benton Professor of Behavioral Science in Management at the Stephen M. Ross School of Business.

“It is wonderful to see this level of recognition for Dr. Bagozzi’s contributions to science. His role in our department has primarily been to work with our graduate students to improve the rigor of their research, and his guidance has been very beneficial,” states former Associate Dean **James Stevenson**.

“This honor is very well deserved; it is of great value to us to have such prominent faculty at the College,” ends Dean **Jim Dalton**.

pharmacy.umich.edu/faculty-news

Michigan Value

Joslyn Neal; 2015 PharmD Candidate

Money is one of the things a student thinks about when deciding to pursue a professional degree. Students must balance the clear advantages of a professional education with the steep price associated. When one considers the 54% increase in cost of pharmacy school tuition since 2004, a notable decline in salary growth rates, and a labor market straining to absorb graduates from increasing numbers of pharmacy schools, it is a tough decision to continue one's education (Am J Pharm Educ. 2014;78(1):5).

The challenge for schools of pharmacy is to create sufficient value to attract talented students despite the additional debt. Additionally, schools owe it to the profession to equip new practitioners with not only the necessary clinical and scientific skills to succeed in practice, but also endow them with leadership and critical thinking skills to address a profession in a constant state of transition.

The University of Michigan College of Pharmacy is tackling these issues from two different fronts. Through the generosity of alumni and friends, the College is able to award nearly \$1.5 million in scholarships annually to help mitigate student debt. If current fundraising campaign goals are met, that number can increase to \$2 million annually.

Other scholarships are also available through the College's Leadership Scholars Program. Students in this selective program are challenged to develop their leadership skills through special mentoring sessions with the College's admin-

istrative leadership. Limits are tested with unique exercises that reward students with additional skills and experience to tackle the current issues in pharmacy.

Scholarship support from these programs

has provided me with the opportunity to limit my weekly work hours and become more involved with student organizations, perform well academically, volunteer at the Hope Clinic, and coach girls ice hockey. I am fortunate to stay connected to a sport I love while helping maintain a healthy work-life balance, which would not be possible without scholarship funding. The valuable skills gained through these experiences have opened doors to many opportunities, such as being the student representative for the Dean Search and leading various initiatives as part of the College's student organizations.

I am very grateful for the scholarship program at the University of Michigan College of Pharmacy. The support of our alumni and others allows students like me to focus efforts during pharmacy school on learning, teaching, serving, and volunteering, while maintaining quality of life through a very rigorous curriculum. Given these points, I am confident that I am getting a great return on my investment!



Joslyn Neal
2015 PharmD Candidate,
Fred and Dee Lyons Scholar

“ I have a sincere love for community pharmacy practice. I have worked in this branch of pharmacy for many years and am only now able to fully appreciate the importance of the pharmacist in this role. I work as much as I can to continue to immerse myself in the “real world” of a pharmacy career and to ensure I maintain the relationships I have made with patients over the years. ”
 – PharmD Candidate



PharmD Class of 2018

133 Admits
85 Matriculants

| | | |
|--------|----|-----|
| Male | 33 | 39% |
| Female | 52 | 61% |

96% of the incoming class have or will have a bachelor's degree when starting PharmD.

PRE-PHARMACY STUDY:

| | | |
|--------------|----|-----|
| UM Ann Arbor | 31 | 36% |
| Non-UM | 54 | 64% |



PhD 2014 Entering PhD Students

34 Admits
22 Matriculants

| | | |
|--------|----|-----|
| Male | 12 | 55% |
| Female | 10 | 45% |

DEPARTMENT ENROLLMENTS:

| | |
|----------------------------------|----|
| Medicinal Chemistry | 15 |
| Pharmaceutical Sciences | 7 |
| Social & Administrative Sciences | 0 |

Fall 2014 Total Enrollment All Students

| | |
|--------|-----|
| PharmD | 324 |
| PhD | 108 |
| BS | 5 |

2014-2015 Scholarships All Students

| | |
|--------|--|
| PharmD | 202 students receiving a scholarship |
| PhD | 50 students will receive scholarship support this year |
| BS | 0 |

2014-2015 Leadership Scholars Program



At the College of Pharmacy, leadership is measured in units of achievement.

To nurture these leadership skills in PharmD students, the College of Pharmacy sponsors a Leadership Scholars Program (LSP). LSP is a co-curricular educational program that recruits PharmD students based upon three criteria: demonstrated leadership in College life; academic record; and poise and clarity during the rigorous interviewing process.

The program began with alumnus **Fred W. Lyons**, BSP Pharm'57, and his wife **Dee**, BA'57, who funded a leadership scholarship in 2005. Their vision was that clinically trained health professionals should play significant leadership roles in business and public policy in addition to direct patient care.

The LSP prepares PharmD students for leadership roles in four ways:

- Helping students identify and develop their leadership strengths through education and training;
- Practicing leadership skills in diverse settings to improve self-confidence;
- Fostering participants' ability to affect positive change while striving for personal excellence;
- Recognizing student achievement through scholarships provided by alumni donors.



A core set of values permeates LSP, which include:

- A desire to take on new challenges;
- A commitment to personal growth;
- The practice of creative and innovative thinking;
- The cultivation of respect for teammates and others.

Independent study, group-based learning, impromptu and formal presentations, giving and receiving feedback, case and book discussions, guest speakers, and assignment of formal professional mentors is evident throughout this program.

Professionalism is enhanced by activities such as learning how to choose a professional wardrobe, dinner etiquette, CV and cover letter review, and mock interviews.

In addition to their regular academic workload, students selected for the program accept a busy agenda. For example, P3 students prepare for and participate in monthly business-style Saturday morning meetings held during the academic year. While working on their PharmD Investigations project, P4 students also work with a mentor on an independent leadership. These projects address issues related to leadership, entrepreneurship, profession-specific topics, and other mutually agreed upon projects.

Both P3 and P4 students participate in special projects and challenges designed to contribute value to College of Pharmacy programs and services. They also attend special meetings and networking events with administrators, alumni, and others throughout the academic year.

"Scholarship support is not only financial assistance, but the encouragement and motivation to pursue my dream of becoming a pharmacist and giving back to the community."
– PharmD Candidate

pharmacy.umich.edu/student-news

Current LSP Scholarships

Fred and Dee Lyons Leadership Scholarship

for P3s advancing to their P4 year
Joslyn Neal

Gloria Niemeyer Francke Excellence Scholarship

for P3s advancing to their P4 year
Kristyne Russell

Joseph D. Williams Leadership Scholarship

for P3s advancing to their P4 year
Kristina Brooks *Rahim Merchant*
Lauren Brown *Gianni Scappaticci*
Katie Dudzinski *Suhail Shaikh*

Charles R. Walgreen Jr. Entrepreneurial Leadership Scholarship

for P3s advancing to their P4 year
Chris Dolan

Elise Katz-Rouhier Memorial Scholarship

for P2s advancing to their P3 year
Stephanie Burke *Jaimini Patel*
Matthew Lau *Allison Schepers*
Swan Lin

Frank J. Ascione Scholarship Fund

*Beginning in 2015

LSP Origins

The Leadership Scholars Program recognizes students who have demonstrated leadership and seeks to develop those skills for the benefit of the patient communities they will eventually serve.

The program began after **Fred and Dee Lyons** challenged the College to develop tomorrow's healthcare leaders and established the Fred and Dee Lyons Leadership Scholarship. Fred (BSP Pharm '57) and Dee (BA '57) were both active student leaders while at Michigan and saw their campus activities as an important catalyst to their post-baccalaureate success. Fred had a successful business career in the pharmaceutical industry, becoming President of Marion Laboratories Inc. in 1977 and retiring as Chairman of Hoechst Marion Roussel, Inc., a successor company in 1996. Dee served as Director of the Kansas City Coro Foundation, President of the Crippled Children's Nursery Association and on the board of the Children's Mercy Hospital in Kansas City. Both currently serve as Honorary Chairs of the College's Victors for Michigan Campaign.

Student Organizations

More than 300 different student groups are active on campus, serving recreational, athletic, social, cultural, political, and professional interests. Most pharmacy students belong to at least one of several groups in the College of Pharmacy:



Offering Leadership Development, Social and Community Service Activities

American Association of Pharmaceutical Scientists - Student Chapter (AAPS)

The American Association of Pharmaceutical Scientists Student Chapter at the University of Michigan endeavors to enrich the academic experience of its members by being an organization that is socially active and professionally responsible. The members of the AAPS student chapter are given an opportunity to learn about the latest developments in the field of pharmaceutical, biopharmaceutical, pharmacogenomic, proteomic, bioinformatic, and drug delivery research. The AAPS student chapter strives to provide its members with an opportunity to interact with people in academia and industry and thus help them learn more about the function and organization of industry and academia, as well as

make useful contacts. Besides the academic enrichment, the student chapter also encourages social events that help develop a bond between the chapter members who come from diverse backgrounds, but are currently working in related areas of research. Further, they work toward promoting pharmaceuticals as an area of research amongst undergraduate and graduate students from other disciplines.

American Pharmacists Association Academy of Student Pharmacists (APhA-ASP)

The University of Michigan's Albert B. Prescott Chapter of the APhA-ASP was founded in 1946 and named after the College's first dean. U-M APhA-ASP members hold joint membership in the APhA and the Michigan Pharmacists Association

(MPA). All pharmacy students are eligible for membership. Meetings are held regularly during the academic year.

College of Pharmacy Graduate Student Organization (COPGSO)

The COPGSO was established in 2014 to facilitate rapport among graduate students in the various divisions of the College of Pharmacy. The organization promotes professional development of graduate students and facilitates communication between graduate students, faculty, and administration of the College of Pharmacy.

Health-System Student Pharmacists (UM-HSP)

The University of Michigan Health-System Student Pharmacists started during the 2008-2009

academic year. After the inaugural year of 2009-2010, the organization was recognized by the American Society of Health-System Pharmacists (ASHP) Student Society of Health-System Pharmacy (SSHSP). UM-HSP's mission is to prepare the next generation of health-system pharmacists to be leaders by advancing the pharmacy profession. UM-HSP works to establish an organizational framework that enhances collaboration through service projects and delivery of student-relevant information, tools, and resources - including hospital tours, residency forums, and health system guest speakers. The organization also addresses the needs of its members through professional and leadership development, career interest education, and other innovative initiatives.



International Society of Pharmacoeconomics and Outcomes Research (ISPOR)

The University of Michigan formed the fifth ISPOR student chapter in April 2000. The goal of U-M ISPOR is to increase student knowledge of practices and advances in pharmacoeconomics and health outcomes research from a global perspective. The student chapter serves as a bridge between students interested in pharmacoeconomics and members of the pharmaceutical industry, health care organizations, government, and academia. ISPOR at the University of Michigan is truly multidisciplinary with members drawn from the College of Pharmacy, School of Public Health, School of Medicine, School of Business, and School of Nursing.

Pharmacy Christian Fellowship (PCF)

PCF exists for the central purpose of glorifying Jesus Christ in pharmacy education and practice. Its members are an interdenominational group open to people of all religious backgrounds. PCF strives to provide activities for the refreshment and encouragement of members, prayer and meditation on Scripture, education and discussion of current issues in pharmacy, service and missions, and networking with Christian health professionals.

Pharmacy Student Ambassadors (PSA)

The Pharmacy Student Ambassadors is a student-initiated volunteer organization that targets its efforts towards making the admission process as enriching and welcoming

as possible. It serves as a unique resource for prospective students prior to, during, and after acceptance. Its mission is to welcome and assist prospective candidates with questions and concerns about the University of Michigan College of Pharmacy and its admission process, as well as provide outreach opportunities to potential students prior to applying to the program.

Pharmacy Student Government Council (PSGC)

The PSGC is the College's official, University-sanctioned pharmacy student government organization. It has primary responsibility for administration of the College of Pharmacy code of conduct. The Council also advocates for the interests of pharmacy students, shares information about pharmacy and

other health concerns with students at U-M and other pharmacy schools, and promotes the education and career needs of pharmacy students.

Phi Delta Chi (ΦΔΧ)

Founded at the University of Michigan in 1883, Phi Delta Chi now has 66 collegiate chapters nationwide. Members perform community service projects, arrange speakers on topics of interest to pharmacy students, and enjoy social fellowship. Phi Delta Chi members meet weekly during the academic year and attend the organization's annual national convention and biennial grand council meeting. There is also an alumni chapter.

Student Impact



Phi Lambda Sigma (ΦΛΣ)

Phi Lambda Sigma, also known as the national Pharmacy Leadership Society, was first established as an honorary society in 1965 to both recognize and promote a culture of strong leadership within the profession of pharmacy. Members, selected through peer recognition, are chosen for having proven a commitment to the advancement of the profession through demonstrated leadership.

The Delta Kappa Chapter of Phi Lambda Sigma at the University of Michigan initiated its inaugural class on October 16, 2013 and is one of over 110 chapters nationwide. The organization proudly represents a diverse, collaborative group of the College's foremost student leaders, with a mission

to empower the next generation of pharmacy leaders by providing innovative opportunities for growth and promoting the recognition and development of leadership at the College of Pharmacy.

Relay for Life

The College of Pharmacy's Relay for Life team, named RxFactor, has been active in raising money and awareness for the American Cancer Society for the past several years. RxFactor collaborates with other pharmacy student organizations - including APhA-ASP, ISPOR/AMCP, PDC, PSGC, SNPhA, and UM-HSP- to raise over \$15,000 annually for the cause. Fundraising events are hosted throughout the year and range from smaller events, such as bucketing during football games, T-shirt sales, and various food fundraisers to

larger-scale events, such as the Networking Auction and the Art Auction. The fundraising concludes in April, where students and faculty all come together for a fun-filled 24 hour walk at the University's Relay for Life event.

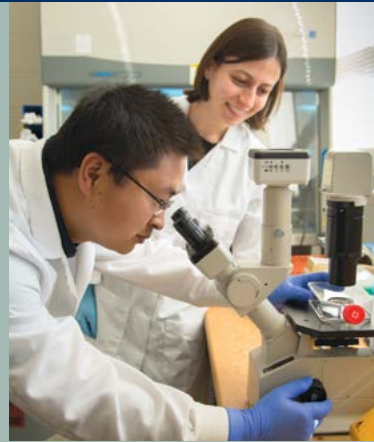
Rho Chi (PX)

Rho Chi is an academic honor society in pharmacy. The mission of the society is to encourage and recognize excellence in intellectual achievement and foster fellowship among its members. Initiates to Rho Chi include those achieving a GPA within the top 20% of the pharmacy class after the first two years of pharmacy school. Certificates of Rho Chi are honorees of Rho Chi, receiving recognition for achieving a GPA within the top 25% of their class after one year of pharmacy school.

There are two major programs sponsored by Rho Chi. First is the Project PEERS Tutoring Program. This program offers walk-in, free tutoring services in Therapeutics, MedChem, Physiology, Evidence-Based Medicine (EBM), and Research Methods to P1-P3s in a group setting. Second is the Rho Chi Shadow Program. This program matches P1-P3s with preceptors who work in their areas of interests and facilitate a one-day shadow experience.

Student Committee for International Opportunities (SCIO)

SCIO is a student group whose mission is to promote international dialogue on the subject of pharmacy. SCIO was created to help the College of Pharmacy welcome international pharmacy exchange



students and other international visitors. In addition to helping visitors with logistics, such as housing and transportation in Ann Arbor, SCIO works to spread the word about international opportunities in pharmacy, and to advocate for increased international opportunities.

Student Michigan Pharmacists Association/Michigan Pharmacists Association (SMPA/MPA)

The Student Michigan Pharmacists Association is an affiliated chapter of the Michigan Pharmacists Association (MPA) that promotes engagement in and activism for the profession. MPA's vision is for its members to be an influential force in developing health policy and optimizing patient health, safety, and medication management.

University of Michigan members of the SMPA represent the will of the students to the MPA through the Student Pharmacist Executive Council. The University of Michigan chapter of SMPA offers networking and mentorship opportunities with leaders in pharmacy and provides a platform for involvement in legislative affairs at the state and national level. At U-M, SMPA holds financial, ethics, legislative, and community service events.

SMPA represents student pharmacists at the three colleges of pharmacy in Michigan: Ferris State University College of Pharmacy, University of Michigan College of Pharmacy, and Wayne State University Eugene Applebaum College of Pharmacy and Health Sciences.

Student National Pharmaceutical Association (SNPhA)

SNPhA creates programs to improve the health, educational, and social environment of minorities. SNPhA members develop leadership skills, participate in national health care issues, promote greater exposure of minority health professionals, especially pharmacists, and help provide minority communities with better health care information. At the annual national convention, members attend education and career workshops, develop ties with other students, and help set national SNPhA policy.

“Scholarship support is not only financial assistance, but the encouragement and motivation to pursue my dream of becoming a pharmacist and giving back to the community.”
 – PharmD Candidate

“What eventually kept me at the University of Michigan for graduate school was the realization that very few schools offer the resources, networks, and possibilities that Michigan does. We have great leadership, great students, and dedicated alumni, and that is enough to open doors for anyone.”
 – PhD Candidate

pharmacy.umich.edu/student-organizations

"I feel that my education at the U-M College of Pharmacy contributed to my success."

94.8% agree

"If I did it again, I would choose the U-M College of Pharmacy for my education."

90.1% agree

MORE THAN

4,000

ALUMNI WORLDWIDE

College Of Pharmacy Alumni Board Of Governors

The members of the University of Michigan College of Pharmacy Alumni Board of Governors are elected to three-year terms. The roles of the Board are to foster communication between the College and its alumni, to take leadership roles in College activities, and to offer counsel to assure that the College's traditions of excellence remain intact.

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Dr. Shea B. Van Vuuren, PharmD'97
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U-M Alumni Association Liaison

Mrs. Paulette Najarian-Knight, BSP Pharm'80
Clarkston, MI
(qdp@umich.edu)



Harvey L. Kaplan & his wife Michele Kaplan
Chair Emeritus of the Pharmaceutical and Medical Device Litigation Division, Shook Hardy, & Bacon.

2014 Alumni Distinguished Lifetime Achievement Award Recipient

He has tried high profile pharma cases in many jurisdictions, including Arizona, Louisiana, Michigan, Missouri, New Mexico, New York, Ohio, Oklahoma, and Pennsylvania. He has won defense verdicts in cases involving serious personal injuries alleged to have been caused by drugs and devices such as DES, the Cu-7 IUD, the Dalkon Shield IUD, and the FenPhen diet drug combination.

He is a Fellow of: the International Academy of Trial Lawyers (Board of Directors); the International Society of Barristers; the American Bar Foundation; and Litigation Counsel of America (Member, Advisory Board 2014-2015). He has served on the Board of Directors of the International Association of Defense Counsel (IADC) and the Defense Research Institute (DRI). He has been Director of the IADC's Defense Counsel Trial Academy; Co-Chair of the DRI Corporate Counsel Roundtable; and

he was also at the forefront of launching DRI Europe. In 2010, he received the Burton Award for Excellence in Legal Writing.

Mr. Kaplan was named Global Product Liability Lawyer of the Year from 2008-2011 by Who's Who Legal - The International Who's Who of Business Lawyers. He was also named the World's Leading Product Liability Lawyer in 2009-2011 by The Legal Media Group Guide to the World's Leading Product Liability Lawyers. Law360 profiled Mr. Kaplan in 2010 as one of the 10 most admired product liability lawyers. He has also been featured in articles about SHB's selection as The American Lawyer's Product Liability Litigation Department of the Year. The ABA Journal referred to him as "... the godfather of product liability law" in an article featuring SHB as "the firm many of the world's biggest companies turn to at the first hint of trouble with one of their products."

Harvey L. Kaplan is a partner of Shook, Hardy & Bacon in Kansas City, Missouri. He is Chair Emeritus of the Pharmaceutical and Medical Device Litigation Division and has served as a member of its Executive Committee. He is a graduate of the University of Michigan (BS Pharmacy 1965) and the University of Missouri School of Law (JD 1968).

Mr. Kaplan is well known for defending pharmaceutical and medical device companies. His national litigation practice also includes other product liability cases and complex commercial litigation.

pharmacy.umich.edu/alumni-news

How You Make An IMPACT

The College of Pharmacy has launched a \$20 million campaign focused on scholarships, fellowships, and research.

In the nearly 140 years since the College's founding, the world of pharmacy and pharmaceutical care has changed almost beyond reckoning. Now, in a world with nano-technology, pharmacogenomics, and a thorough reengineering of our healthcare system, we have to rethink the overall value proposition of the College of Pharmacy.

Everything is on the table as we examine our educational, research, and service missions for relevance – not only for today,

but for decades into the future. To this end, we have outlined strategic objectives for our faculty, staff, and students, and we have refocused our research and educational philosophies vis-a-vis the future of research and healthcare. We've also refreshed our commitment to service and health outcomes.

We are known for our standards of excellence and leadership. Together, we can assure those standards continue to shape the face of pharmaceuticals, medicinal chemistry, and pharmacy practice.

IMPACT: **REDUCE STUDENT DEBT BY \$2 MILLION ANNUALLY**

Currently, we reduce debt by \$1.3 million annually but seek additional support to raise that amount by roughly 50%. Your gift to the Alumni Scholarship Fund will impact our students in perpetuity.

IMPACT: **100% POST GRADUATION PLACEMENT**

Competition for jobs is tough in both basic sciences and pharmacy practice. Help students differentiate themselves with a gift to the Annual Fund that impacts classroom excellence and cocurricular opportunities in leadership, innovation, and entrepreneurship.

IMPACT: **INCREASE POSITIVE PATIENT OUTCOMES**

Support for interdisciplinary basic and clinical research impacts patient outcomes in the near and far horizons. Your gift to the Annual Fund will mean funds for research, necessary technology, and world-class faculty.

Learn more about the Annual Fund on page 42.

CAMPAIGN PRIORITIES

What motivated our alumni to establish this endowment?

Jay Carter, BSP Pharm '81

"For me, it's all about giving back to the College... especially to that student that was like me in the College. I knew that I loved the profession and what I was learning, but was also sure that there were other ways to use that knowledge to aid in health care."

Rich and Jody Grossman, BSP Pharm '79 & BSP Pharm '79

"We were motivated to establish this endowment from conversations with Dean Ascione and Pete Niedbala. The ability to establish an endowment has given us a meaningful way to give back to the College. We have great affinity to the College. Both Jody and I are still enjoying fulfilling careers and recently celebrated our 35th Wedding Anniversary; having met while attending the College."

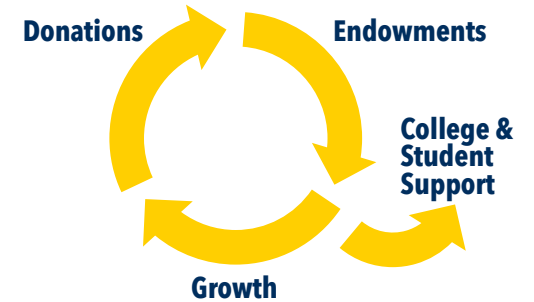
Bob Lipper, PhD '78

"I enjoy supporting the College of Pharmacy in general, but decided I wanted to do something more specifically directed to the Pharmaceutical Sciences department, where I got my graduate degree."

Endowed Impact

Establishing a named endowment at the College will benefit generations of future scientists and healthcare professionals

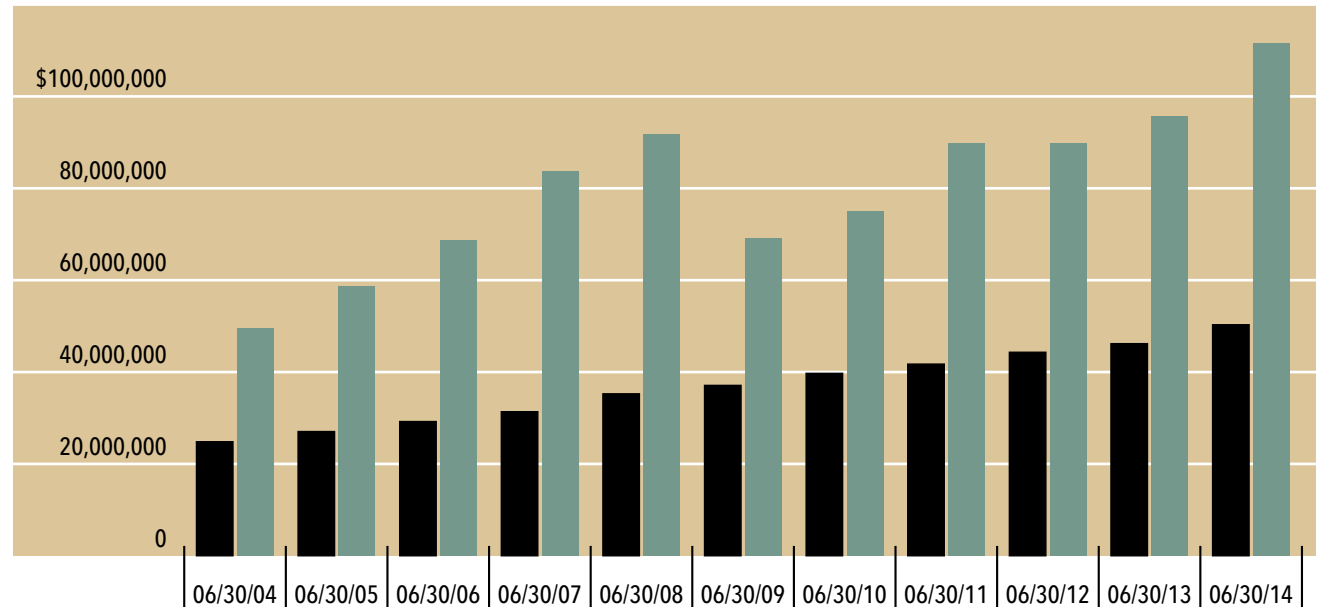
Contact the Office of Pharmacy Advancement at: pharm.advance@umich.edu or (734) 764-7350 for more information.



10 Year College of Pharmacy Endowment History

Historical Summary

■ Book Value ■ Market Value





The Dean's Advisory Committee meets annually to help the College leadership assess the overall strategic direction of the College and to act as a sounding board for potential future plans. Additionally, this committee serves as the College's Campaign Steering Committee when the University is actively in a fundraising campaign.

Dean's Advisory Committee

Ilisa B. Bernstein, PharmD'87, J.D.
Deputy Director, Office of Compliance, Center for Drug Evaluation and Research
U.S. Food and Drug Administration

Grant H. Brown, BSPHarm'80;
PharmD'83
CEO, Brown's Advanced Care Pharmacy and Medical Supplies

Frederick M. Brubaker, BSPHarm'62; MBA'64
Retired Vice President
Bristol-Myers Squibb Company

Dr. Ronnie M. Cresswell
Retired Chairman, Parke-Davis Pharmaceutical Research
Retired Senior Vice President, Warner Lambert Co.
Professor of Medicinal Chemistry University of Michigan

Timothy M. Cunniff, PharmD'89
Executive Vice President, Research & Development
Marathon/Paragon Pharmaceuticals

Gayle C. Fischer, BSPHarm'74; MM'84
Principal
Strategic Pharma Solutions, LLC

Madurai G. Ganesan, Postdoc'83
Chief Executive Officer
Sanja Pharmaceuticals Company

John R. Graham, BS'74; BSPHarm'75; MHSA'79
Regional Executive/CEO
St. Mary's of Michigan & St. Joseph Health System

Chung-Chiang Hsu, PhD'81
President, Chief Executive Officer and Director
Impax Laboratories, Inc.

D. Kevin Kwok, PharmD'86
Head of Talent Acquisition and Strategy
Theravance

Peter M. Labadie, BSPHarm'79
Retired CEO
Williams-Labadie, LLC

James R. Lang, BSPHarm'76; PharmD'82
Vice President, Pharmacy Services
Blue Cross Blue Shield of Michigan

Robert A. Lipper, PhD'78
President
Back Cove Pharma, LLC

Fred W. Lyons, BSPHarm'57
Retired Chairman
Hoechst Marion Roussel, Inc.

Dinesh C. Patel, PhD'79
Managing Director
vSpring Capital

Dr. Ara G. Paul
Dean Emeritus College of Pharmacy
University of Michigan

Michael L. Ryan, PharmRes'81
VP & General Manager, U.S. Value, Access and Reimbursement
Amgen Inc.

Frederick E. Schmid, BSPHarm'68
President
Dexter Pharmacy, Inc.

John J. H. Schwarz, AB'59; LLDHon'03
Family Health Center of Battle Creek

Christopher M. Sinko, MS'86; PhD'89
SVP, Pharmaceutical Development, Research and Development
Bristol-Myers Squibb Company

Donald G. Therasse, BS'78; MD'82
Executive Partner
Your Encore, Inc.
Vice President, Global Product Safety, Eli Lilly and Company (retired)

Joseph S. Turi, MS'71; PhD'73
Cephalon Inc.

Norris G. Turner, PharmD'90
Director, Clinical Development, Extramural Research Medical Affairs, Central Nervous System
Janssen Scientific Affairs, LLC

Charles R. Walgreen, BSPHarm'58
Chairman Emeritus,
Walgreen Co.

Sharon M. Watling, PharmD'87
Independent Consultant-Clinical Drug Development, Adjunct Clinical Assistant Professor, College of Pharmacy

David S. Zaccardelli, PharmD'88
Executive Vice President
Pharmaceutical Development and Operations
Chief Manufacturing Officer
United Therapeutics Corp.

P4 Pledge Drive Students Receive Forever Go Blue Award

Congratulations to the College of Pharmacy P4 Pledge Drive Committees of the past 10 years as recipients for the Forever Go Blue Award in Student Philanthropy within the University of Michigan.

The Forever Go Blue awards honor students and/or organizations that promote philanthropic values and work. Last year, over 500 nominations were submitted for

students and student organizations in the different award categories. These categories recognize social justice, education, arts, entrepreneurship, and many other values of the University of Michigan.

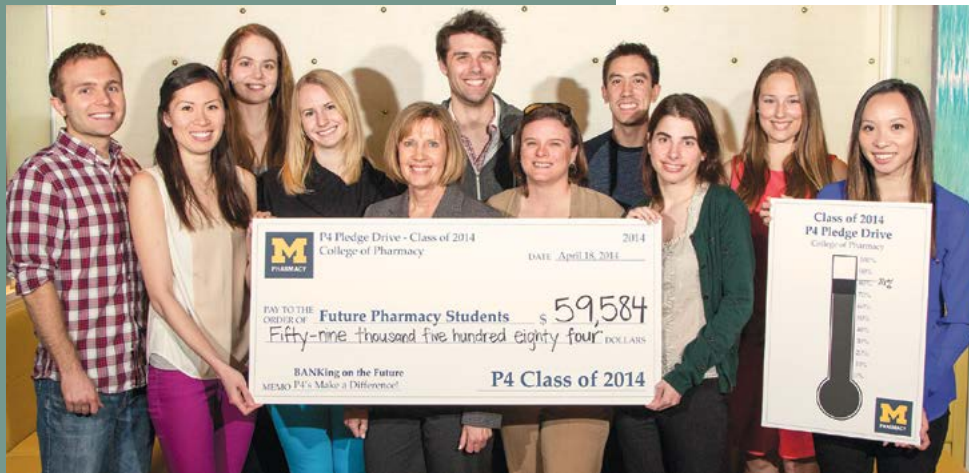
“It has been very gratifying to see our students take ownership of the pledge drives every year. It’s their leadership and dedication that has made the difference and success of this program,” boasts **Peter Niedbala**, executive director of pharmacy advancement and external relations.

Committee members set dollar and participation goals and solicit their classmates to make pledges payable over three years.

“It has been especially heartening overseeing this program as Dean. It’s been a model for other colleges of pharmacy around the nation, including the programs at Florida and Texas,” states former Dean Frank Ascione.

Students from the 2014 P4 Committee accepted the award on behalf of a decade’s worth of committees at the university-wide Michigan Difference Student Leadership Award Ceremony on Tuesday, April 15, 2014.

The College sincerely thanks those who have made P4 commitments throughout the years, and couldn’t be more grateful for your dedication to the profession of pharmacy and contributions.



Over the last decade, our students have pledged nearly \$700,000 to support P3 and P4 scholarships.

GRADUATES: 90 • PERCENTAGE PARTICIPATION: 81% • AMOUNT RAISED: \$59,584

NAMED ENDOWMENT FUNDS



Over the years, generous gifts to the College created these funds that will provide support in perpetuity to students, faculty, and the College in general. Contributions can still be made directly to these funds.

Abbott Laboratories Scholarship

Aiden Jon Abbey Memorial
Scholarship Fund

J. B. Alexander Pharmacy
Scholarship Fund

Alumni Scholarship Fund

American Foundation for
Pharmaceutical Education
Fellowship

Gordon and Pamela Amidon
Fellowship in Pharmaceutics

Henry Arbour Scholarship Fund

Nancy Agard le Grand Ascione
Scholarship Fund

**Frank J. Ascione
Scholarship Fund**

Rosemary R. Berardi Scholarship
Fund

Mr. Edward S. Blake Fellowship

**Sidney R. Blank Endowed
Scholarship Fund**

Eddie L. Boyd Scholarship Fund

Bristol-Myers Squibb Fund

Elizabeth Broomfield International
Student Support Fund

Elizabeth Broomfield Dean's
Discretionary Fund

Grant and Anne Brown Dean's
Discretionary Fund

Isabelle and Denniston Brown
Scholarship Fund

Sharon and Frederick Brubaker
Scholarship Fund



**Frank J. Ascione
Scholarship Fund**

**Frank Ascione
BSP Pharm '69, PharmD '73,
MPH '77, PhD '81**

What's your vision for the future of
the field?

"I believe that pharmacy is positioned to increase its impact on health care because of our unique understanding of the science of the drug product."

Sandra L. Chase Leadership
Scholarship Fund

Samuel C.H. and Barbara Ching
Scholarship Fund

Eugene and Shirley Cordes
Scholarship Fund

Sheila B. Cresswell Fellowship in
Medicinal Chemistry

Gayle C. Crick Scholarship Fund

William T. and Norma J. Crick
Scholarship Fund

**Timothy M. Cunniff
Scholarship Fund**

CVS Scholarship Fund

Jennifer B. Dressman Fund

Duellman Graduate Student
Research Fund

Myles E. Duellman Memorial Fund

Ottmar Eberbach Fund

Julia E. Emanuel Scholarship Fund

**Entrepreneurship in
Healthcare Fund**

The Meihua Rose Feng and Family
Fund for Visiting Graduate
Students in Pharmaceutical
Sciences

William E. Finley Scholarship Fund

Russell H. Fiske Scholarship Fund

Recently Established Funds in Bold.



Sidney R. Blank Scholarship Fund

**Sidney Blank
BSP Pharm '60**

What motivated you to establish this endowment?

"Wanting to help a few deserving students receive the same opportunities that I had, was a very strong motivation. Guidance and encouragement from Dean Emeritus Ara Paul and Dean Frank Ascione was also important. Meeting the students at the Prescott Dinner the last two years was also strongly motivating. Their vitality, energy, and smarts are terrific. We've got to get more alumni to these dinners and exposed to the young students. They are an untapped resource."

Sidney Blank poses with Emeritus Dean Ara Paul (pictured on left).

David Fleisher Graduate Student Memorial Scholarship Fund

Gordon and Beverly Flynn Scholarship Fund

Daniel Foy Plastic Bronchitis Research Fund

Gloria Niemeyer Francke Excellence Scholarship Fund

Richard Thomas and Marilyn Holtom Garrett Research Fund

Glaxo Pharmacy Fellowship

**Sangeeta Goel
Endowment Fund**

**Richard and Jody Grossman
Scholarship Fund**

Jo Harrison Memorial Scholarship Fund

Helfman Pharmacy Student Aid Fund

Everett N. Hiestand Scholarship Fund

Hoechst Marion Roussel Educational Fund



Entrepreneurship in Healthcare Fund

**Jay Carter
BSP Pharm '81**

What lessons have you learned in your career that you want to share with our current students?

"The most important thing that you will learn in pharmacy school is the inter-dependencies between physiology, pathophysiology, diagnosis, and therapeutics. The drugs today matter less than your understanding of how it all fits together. That knowledge endures. Nobody prescribes Aldomet anymore. Knowing how it works is still vital."

Craig R. Hopps Memorial Scholarship Fund

Eu-Phang and Chih H. Hsu Endowment Fund

Gertrude and George Huebner Scholarship Fund

Cary E. Johnson & Nancy Peterson-Johnson Scholarship Fund

Karageanes Family Scholarship Fund

Elise Katz-Rouhier Memorial Scholarship Fund

George L. Kenyon Fund for Academic Excellence

Duane M. Kirking Fund for Graduate Students in Social and Administrative Sciences

Gloria Kosasa-Gainsley and Stephen E. Gainsley Scholarship Fund

Emily Koulogeorge Scholarship Fund

Peter Labadie and Suzanne Saxman Scholarship Fund

NAMED ENDOWMENT FUNDS



James R. Lang Scholarship Fund
Roger H. L'Hommedieu
Continuing Education Fund
Eli Lilly Technology Fund
Lilly Endowment Pharmacy
Fellowships

R. A. Lipper Fund for Students in Pharmaceutical Sciences

Robert and Nancy Lipper
Scholarship Fund
Guo-jie Liu Memorial Endowed
Scholarship Fund
Fred W. Lyons Fellowship Fund
Fred and Dee Lyons Leadership
Scholars Program Fund
Marion Laboratories Educational
Fund
Dana J. Marra Research Fund
Albert M. Mattocks Professorship
Kristen McGlone Memorial Fund
Jerry and Elzbieta McLaughlin
Scholarship Fund



Timothy L. Cunniff Scholarship Fund

**Tim Cunniff
PharmD'89**

What are your goals for this
endowment?

"The soaring cost of college tuition is a concern, and it would be a shame if qualified and dedicated students could not pursue their dreams on the basis of cost alone. I think it was one of Michigan's past presidents who remarked that the University provides "An uncommon education for the common man". I hope that the endowment will provide some relief in achieving this mission."

Meijer Scholarship Fund
Merck Fellows in Pharmaceuticals
Middleton Pharmacy Lectureship
Jerry and Midge Mills Scholarship
Fund
Norma and John Missimore
Scholarship Fund
Najarian Scholarship Fund
Jack H. and Jean L. Nearhoof
Scholarship Fund
Chhotubhai and Savitaben Patel
Fellowship
Ara G. Paul Professorship in
Pharmacy
Ara G. and Shirley W. Paul
Scholarship Fund
P. Gregory Peck Memorial
Scholarship Fund
Dean V.L. Perry Scholarship Fund
Pfizer Fellowship in Pharmaceuticals
Pharmacy Student Aid Fund



Sangeeta Goel Endowment Fund

**Sangeeta "Sandy" Goel
AB'92, PharmD'98**

What are your goals for this
endowment?

"My goals for this endowment are to support students in their professional and career development as they engage in learning activities, leadership experiences, and networking opportunities that will serve them long after they graduate and as alumni representatives of U-M College of Pharmacy."

George and Margaret Phillips
Scholarship Fund

Abe Plough Community Pharmacy Fund

Plough Pharmacy Scholarship Fund

Dwight H. and Hannah Doan Purdy Scholarship Fund

Rampy Family Fund for Medicinal Chemistry

James W. Richards Scholarship Fund

Frank E. Robbins Memorial Pharmacy Scholarship Fund

Tom D. Rowe Memorial Scholarship Fund

Schering-Plough Educational Fund

Schering-Plough Graduate Fellowship Fund

Frederick E. Schmid Family Scholarship Fund

Dorothy and Blaine Schnell Scholarship Fund

Howard B. Schumir Dean's Memorial Discretionary Fund



Rich and Jody Grossman Scholarship Fund

Rich and Jody Grossman BSP Pharm'79 and BSP Pharm'79

What new developments in the field excite you?

"Pharmacists finally being recognized by the payors in health-care for what they bring to the table. From increasing access and providing vaccines to managing therapies for a variety of disease states, pharmacists continue to demonstrate their value to the healthcare system. It is a very exciting time for the role of pharmacists in the community setting."

Rich and Jody Grossman with their grandson; Noah.

Joseph B. Schwartz Graduate Student Pharmaceuticals Travel Fund

John G. Searle Professorship

Allen J. Sedman, MD, PhD Lectureship Series in the Pharmaceutical Sciences

Ching-ju Wang Sheu Graduate Student Fellowship

Hollis and Martha Showalter Fund

Christopher M. and Angela C. Sinko Scholarship

Edward Smith Memorial Scholarship

Donald and Patricia Therasse Scholarship Fund

John G. Topliss Medicinal Chemistry Lectureship Series Fund

Leroy B. Townsend Medicinal Chemistry Graduate Student Fund

The Truong / O'Dell Family Fund

Upjohn Company Research Fund



Robert A. Lipper Fund for Students in the Pharmaceutical Sciences

Bob Lipper PhD'78

How did the College influence your career?

"The College provided a remarkably relevant academic foundation for my career in the pharmaceutical industry, with emphasis on thorough understanding of the basic physical-chemical principles that underpin the science of pharmaceutical product development and drug delivery. And of course the prestige of a Michigan College of Pharmacy degree and the faculty's reputation and connections in the industry didn't hurt, either!"

NAMED ENDOWMENT FUNDS



Upjohn Fellowships in
Pharmaceutics

Ella and Hans Vahlteich Research
Fund

Hans W. Vahlteich Professorship

Sharon L. Valley Memorial
Scholarship Fund

Wagner Family Scholarship Fund

John G. Wagner Memorial Fund

John G. Wagner, Pharmacia, and
Upjohn Lecture Fund

Charles R. Walgreen, Jr.
Scholarship Fund

Charles R. Walgreen, Jr. Dean's
Discretionary Fund

Charles R. and Jean B. Walgreen,
Jr. Scholarship Fund

Charles R. Walgreen, Jr.
Professorship

Charles R. Walgreen, III Pharmacy
Administration Fund



Christopher M. and Angela C. Sinko Scholarship Fund

**Christopher Sinko
MS'86, PhD'89**

How did the College influence
your career?

*"It reinforced the importance of
creating your own success. Nothing
is given to you and you must work
hard to achieve – great lessons to
learn during my years at Michigan."*

Christopher and Angela Sinko with their
children; Brendan, Kiersten, and Michael.

Charles R. Walgreen III
Professorship in Pharmacy
Administration

Walgreen Educational Fund

Warner-Lambert/Parke-Davis
Fellowship

Norman Weiner Graduate
Scholarship Fund

Joseph D. Williams Scholarship
Fund

Seymour Yudkin Memorial Fund

Zaccardelli Family Pharmacy
Scholarship Fund

The 2014 Honor Roll of Donors was compiled as
accurately as possible from University Records dated
July 1, 2013 through June 30, 2014. If there are
any discrepancies, please contact the Pharmacy
Advancement Office at: 734-764-7350 or [pharm.
advance@umich.edu](mailto:pharm.advance@umich.edu).



Wagner Family Scholarship

**Deb Wagner
BSP Pharm'76, PharmD'82**

What motivated you to establish
this endowment?

*"It is a way of giving back to the
College of Pharmacy for providing
me with a career that has allowed me
to do more things than any one other
career could have. I have had great
fortune in my career as a pharmacist
and the College assisted me to
pursue graduate studies as well. As
the College of Pharmacy is a family
of sorts it was logical to establish
a family scholarship as both my
mother and sister are or have been
associated with teaching as well."*

Deb Wagner with her sister Julie and mother
Marilyn Wagner (pictured from left to right).

Tributes

In memory of Nancy Agard le Grand Ascione

Dr. Michael M. Dabaja
Mrs. Betty Jo Kolb

In honor of Dean Frank J. Ascione

Mr. Brad Canale
Dr. Grant H. and Mrs. Anne B. Brown
Mr. Frederick M. Brubaker and
Mrs. Sharon C. Brubaker
Dean James T. Dalton and
Dr. Stephanie S. Scott
Dr. Stephen W. Durst
Dr. George A. Garcia
Mr. and Mrs. Robert D. Hild
Mr. Daniel W. Kaercher
Dr. Nancy A. Mason and
Mr. John W. Mason
Ms. Hilda I. McDonald
Dr. Bruce A. Mueller and
Mrs. Laurie Mueller
Mr. Peter C. Niedbala
Dean Emeritus Ara and Shirley Paul
Dr. Michael D. Reiter and
Mrs. Mary E. Reiter
Prof. James W. Richards and
Mrs. Helen Richards

Ms. Jenn Rohl
Ms. Pennie Rutan
Dr. Beverly Schmoll
Drs. Steven and Anna Schwendeman
Dr. David H. Sherman and
Dr. Carey W. Sherman
Dr. James G. Stevenson and
Mrs. Julie A. Stevenson
Dr. Lynda S. Welage and
Mr. Donald E. Welage

In honor of Jeff Nearhoof

Mr. Nearhoof's colleagues at
Northwestern University

In honor of Brian and Saumuy Puchala

Mrs. Anne H. Puchala and
Mr. Martin Puchala

In honor of David and Debra, Jerry and Susan, and John Zaccardelli

Mr. Richard Zaccardelli and
Mrs. Ellen Zaccardelli

In memory of Dr. David Fleisher and in honor of Leslie Fleisher Fladd

Mr. Frederick W. Fladd and
Mrs. Leslie F. Fladd

In memory of Gerald Fleisher and Eunice D'Ambrosio Fleisher

Mr. Frederick W. Fladd and
Mrs. Leslie F. Fladd

In memory of Mr. William Crick

Mrs. Mary L. Anzick
Mr. and Mrs. Richard J. Brady
Mr. and Mrs. David Bossung
Mr. and Mrs. Edward E. Boan
Mrs. Gayle Crick Fischer and
Mr. Thomas P. Fischer
Ms. Nancy J. Foster
Mr. Edward J. Gallagher
Mr. and Mrs. Bruce Hambell
Eugene and Catherine Kroeff
Mr. and Mrs. William D. Lacy
Ms. Ann Marie Mann
Mrs. Karen L. Maxwell
Mr. and Mrs. Donald J. Miller
Mr. and Mrs. Paul T. Rabaut
Mr. and Mrs. Edward J. Toton
Mr. and Mrs. Thomas G. Warman

In memory of George Fishman

Mrs. Maureen F. Glassberg

In memory of Dolores Gmerek

Ms. Annette M. Karageanes

In memory of John E. Jacobs

Ms. Annette M. Karageanes

In memory of Dr. Kristen McGlone

Dr. Cesar Alaniz and Dr. Janice L. Stumpf
Dr. Pamela I. Brown
Mr. Bruce F. McGlone and
Mrs. Diane F. McGlone
Ms. Marion Zimmnicki

In memory of Marcella Doubrava and Betty Robertson

Dr. Christopher A. Robertson

In memory of Mrs. Georgia Rowe

Dr. Kiyoshi Kitasaki and
Mrs. Lillian Kitasaki

In memory of Donald Swanson

Mr. Joseph C. Dilger
Mr. and Mrs. Jerry T. Roberts
Mr. and Mrs. Robert L. Starnes

HONOR ROLL OF DONORS 2014

AN ANNUAL GIFT OF **\$10,000** CAN PROVIDE **2** SCHOLARSHIPS TO P3 OR P4 STUDENTS.

Our annual Honor Roll of Donors is one way that we express our gratitude to the hundreds of alumni and friends who support the College's education, research, and service missions. Without this financial support, a Michigan College of Pharmacy education wouldn't be accessible to many of our students and those extras that distinguish the Michigan Experience would

be lost. Your support makes a daily impact on the lives of future researchers and healthcare professionals.

If you discover that we've omitted your name or have otherwise erred on a listing, please let us know at pharm.advance@umich.edu or call us at (734)-764-7350.

Thank you for your support!

College of Pharmacy Distinguished Recognition Levels

Dean's Cabinet

\$10,000 and up

- Acknowledgement Letter from the Dean
- Listing in Honor Roll of Donors
- Homecoming Event Admission
- Invitation to Prescott Circle Dinner

Harvey A.K. Whitney, Sr. Circle

\$5,000 to \$9,999

- Acknowledgement Letter from the Dean
- Listing in Honor Roll of Donors
- Homecoming Event Admission
- Invitation to Prescott Circle Dinner

Frederick F. Blicke Circle

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- Invitation to Prescott Circle Dinner

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- Homecoming Event Admission
- Invitation to Prescott Circle Dinner

Donald E. Francke Associates

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- Acknowledgement Letter from the Dean
- Listing in Honor Roll of Donors
- Homecoming Event Admission

Tom D. Rowe Associates

\$250 to \$499

- Acknowledgement Letter from the Dean
- Listing in Honor Roll of Donors

College Donors

\$1 to \$249

- Acknowledgement Letter from the Dean

Dean's Cabinet

recognizes donors of \$10,000 and over to the College of Pharmacy

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 Mr. Sidney R. Blank
 Dr. Grant H. and Mrs. Anne B. Brown
 Jay and Rhonda Carter
 Drs. Eugene and Shirley Cordes
 Dr. Timothy M. Cunniff
 Mrs. Gayle Crick Fischer and Mr. Thomas Fischer
 Dr. and Mrs. Gordon L. Flynn
 Mrs. Gloria Kosasa Gainsley and
 Dr. Stephen E. Gainsley
 Mr. Richard A. Grossman and Mrs. Jody S.
 Grossman
 Mr. Peter M. Labadie and Ms. Suzanne L.
 Saxman
 Dr. James R. Lang
 Dr. Robert A. Lipper and Ms. Nancy M. Lipper
 Mrs. Marcia G. Mootz and Dr. Lee Mootz
 Dr. Dinesh C. Patel and Mrs. Kalpana Patel
 Dr. Kiran C. Patel and Dr. Pallavi Patel
 Mr. Pradip C. Patel and Mrs. Naini Patel

Dean Emeritus Ara and Shirley Paul
 Dr. Larry W. Rampy ♦
 Prof. James W. Richards and
 Mrs. Helen Richards
 Mr. Frederick E. Schmid and
 Mrs. Diane F. Schmid
 Dr. Beverly Schmoll
 Dr. Allen J. Sedman and
 Prof. Emer. Aileen B. Sedman
 Dr. Chingju W. Sheu ♦
 Dr. and Mrs. Christopher M. Sinko
 Dr. Donald G. Therasse and
 Mrs. Patricia M. Therasse
 Dr. Deborah S. Wagner
 Ms. Julie A. Wagner
 Mrs. Marilyn J. Wagner

♦ *Deceased*

The Harvey Whitney, Sr. Circle

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 Dr. Rosemary R. Berardi
 Mr. and Mrs. Samuel C. H. Ching
 Dr. Michael M. Dabaja
 Mr. Dennis A. Dahlmann and Ms. Patricia M. Garcia
 Dr. Cary E. Johnson and Mrs. Nancy M. Peterson Johnson
 Mr. and Mrs. Harvey L. Kaplan
 Dr. Susannah E. Koontz Webb and Mr. George W. Webb III
 Dr. Katherine M. O'Dell and Dr. Kevin S. O'Dell
 Dr. David H. Sherman and Dr. Carey W. Sherman

The Frederick F. Blicke Circle

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 Mrs. Paulette Najarian-Knight and Mr. Richard Knight
 Dr. King C. Kwan
 Dr. Hollis D. Showalter and Mrs. Martha A. Showalter
 Dr. Randall G. Stehle
 Dr. Lynda S. Welage and Mr. Donald E. Welage

HONOR ROLL OF DONORS 2014

The Albert B. Prescott Circle

recognizes donors of \$1,000 and over to the College of Pharmacy

A GIFT OF

\$1,000

**CAN
UNDERWRITE
A STUDENT
LEADERSHIP
WORKSHOP.**

Dr. Jon F. Abbey and Mrs.
Alicia S. Abbey

Dr. and Mrs. William J.
Addicks Jr.

Dr. and Mrs. Gregory E.
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Mr. Sidney R. Blank

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B. Brown

Mrs. Isabelle J. Brown

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Dr. Sandra L. Chase

Dr. Judith E. Chill

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Cordes

Dr. Timothy M. Cunniff

Dr. Michael M. Dabaja

Mr. Dennis A. Dahlmann and
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Dr. Stephen W. Durst

Dr. Meihua Rose Feng
Mrs. Gayle Crick Fischer and
Mr. Thomas Fischer

Mr. Eric Fiske and Ms. Judy
M. Fiske

Mr. Frederick W. Fladd and
Mrs. Leslie F. Fladd

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Mrs. Gloria Kosasa Gainsley
and Dr. Stephen E. Gainsley

Dr. George A. Garcia

Dr. Dale E. Greenwood and
Dr. Nancy Jezyk

Mr. Richard A. Grossman and
Mrs. Jody S. Grossman

Dr. Timothy A. Hagen and
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Ms. Holley J. Hall

Dr. Guy Hasegawa and Dr.
Elizabeth A. J. Hasegawa

Dr. Sui Yuen Eddie Hou and
Dr. Chia-Ming Chiang

Dr. Shannon M. Hough and
Mr. Trevor D. Hough

Dr. and Mrs. Che C. Huang

Dr. Cary E. Johnson and Mrs.
Nancy M. Peterson Johnson



THE ANNUAL FUND

Annual gifts from alumni and friends provide critical funds that are immediately available and vital for the success of the College. They help meet emerging challenges and contribute toward student aid, research opportunities, visionary initiatives, and much more.

In the past year, donations to the College's Annual Fund helped supplement scholarships, underwrote career and leadership development activities for students, brought speakers to campus for the Dean's Leadership Lecture Series, and funded other priorities. Every gift creates an impact and helps sustain the College's educational, research, and service missions.

Give every year. "Be a victor every day."

| | | | | | |
|--|--|--|--|--|--|
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College of Pharmacy Hosts First Research Forum; Huge Success

On Friday, January 31, 2014, the College of Pharmacy hosted their inaugural Research Forum at the Michigan League, which offered an opportunity for College students and faculty to showcase their research and network with other College affiliates. The event brought together over 500 participants, which was the largest ever College gathering.

Nearly 120 PharmD students, PhD students, post-doctoral fellows, and faculty members presented their research. Aisles of posters were intentionally grouped in themes of research, with the goal of combining researchers from different departments who work on similar problems but rarely cross paths. Three video crews were busy full time recording poster presentations and capturing brief overviews of each presenter. P2 students were also able to meet with faculty to discuss research

and potentially identify their investigations project mentor.

“The Research Forum was a great opportunity to connect the entire College and share the value of our research with the greater health community. We were able to showcase the breadth of what the College offers, as well as the interdisciplinarity of our research,” states Associate Dean **Bruce Mueller**.

The second annual Research Forum will be held on Friday, February 13, 2015 at the Michigan Union. The crowds at this past year’s event have already demanded a larger venue for next year, proving its success.

“This gathering celebrates a key component of the College’s mission of education, research,



and service. The U-M College of Pharmacy has a unique tradition of exposing not only PhD candidates, but all students, into the scientific process to further emphasize the long tradition of science,” notes former Dean **Frank Ascione**.



For more information, visit pharmacy.umich.edu/researchforum

pharmacy.umich.edu/more-news

THE COLLEGE INTRODUCES CAREER CONNECTIONS

The College of Pharmacy is pleased to announce Career Connections, a new program designed to serve the professional development and career planning needs of our students.

This program falls within the Office of Student Affairs. The focus is connecting students with residencies, fellowships, and employers in pharmacy and pharmaceutical science professions, tapping into the college's vast network of preceptors and alumni. We offer our students and potential employers access to an electronic job board, and host on-campus interviews and job fairs. Also, our professional development events and career exploration activities prepare students for the job market. Many of these events are provided in collaboration with student organizations.

If you learn of job or internship opportunities, or if you have suggestions for how Career Connections can best meet your needs, email us at cop.careerconnections@umich.edu or visit the website: pharmacy.umich.edu/careerconnections

Thank you in advance for your support of these efforts to assist our students in finding their dream jobs!

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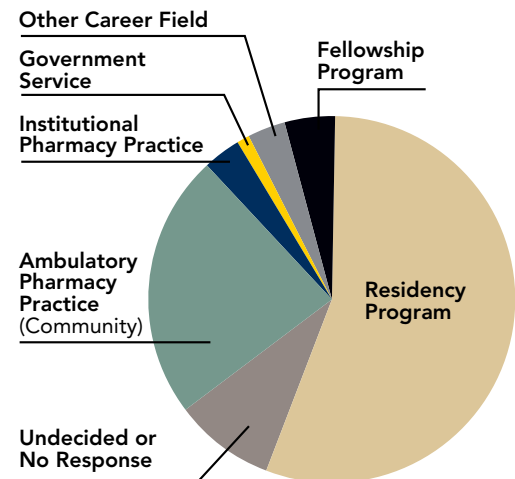


36 Employers
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Career Gateway,
the College's Annual
Career Fair.

**OUR BIGGEST
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89 Total PharmD Class
Career Plans



Safe Medication Disposal Event Proves a Resounding and Continued Success

The College hosted its first ever Safe Medication Disposal Event near Ingalls Mall in Ann Arbor on March 17, 2014.

We are pleased at the resounding success of this event! An estimated 160 pounds of medications were collected during the 4-hour event, 25% of which were controlled substances. This has a huge impact on keeping our water clean and our communities safe from drug diversion.

“It was wonderful to be invited to work with the University on this. The students did a great job. I’m very pleased with the success of the event,” states Sergeant **Gary Hicks**, U-M Police Department Community Outreach Supervisor.

A special thanks goes out to the U-M College of Pharmacy students, Sergeant **Gary Hicks**, **Debra Cook** from Village Apothecary, and **Chris Angel** from Great Lakes Clean Water Alliance “Yellow Jug” Program for making this event possible.

The College hosted a second Safe Medication Disposal Event on September 18, 2014, where 165.2 pounds of non-controlled, an estimated 37.5 pounds of controlled medications, and an estimated 3 pounds of epinephrine pens were collected.

“By sponsoring this event, the College of Pharmacy faculty and students are leading the way to help educate people about the importance of secure and responsible drug disposal,” states **Chris Angel**, president of Great Lakes Clean Water.



pharmacy.umich.edu/more-news

COMMUNITY IMPACT

Throughout the school year, College of Pharmacy students and faculty engage in a broad range of community outreach activities – locally and globally. Here are some of the highlights...

In the 2013-2014 school year, students organized

17 HEALTH FAIRS,
administered
hundreds of immunizations,
and raised
thousands of dollars for charity.

Student Research Efforts Support Clinical Practices in Africa

A University of Michigan Partnership with Kenya Methodist University and Consolata Hospital

Dr. Vicki Ellingrod, and three P2 students, **Charlotte Buckley, Craig Michael, and Emily Van Wieren**, recently returned from Meru, Kenya, where they spent 4 weeks learning about the practice of pharmacy, exploring the structure of pharmacy education, and working on research projects. This interprofessional initiative partnered the College of Pharmacy with U-M's Medical School, School of Dentistry, School of Nursing, and School of Social Work. The initiative was supported by the Michigan Institute for Clinical and Health Research (MICHR) Global Summer Research Program.

The purpose of this trip was to improve the economy, health services, resource utilization, and quality of life in developing, rural communities of Kenya. Students designed research



projects that explored the occurrence of counterfeit medications, how insulin is stored in a region where refrigeration is not common, and acetaminophen use by local Kenyans.

Pharmacy practice and education in Kenya are very different from the United States. Therefore, this program partnered with the pharmacy school at Kenya Methodist University (KeMU) to promote best practices in clinical pharmacy with their faculty and students. U-M students initiated this partnership through their relationship with KeMU's pharmacy leader, Dr. **James Ombea**, BPharm, PharmD.

Academics at U-M

- 19 schools & colleges
- 250 degree programs
- 79 majors and more than 100 minors
- Nearly 2,000 classes available each semester
- 16:1 student/faculty ratio
- More than 100 study-abroad programs on 6 continents
- #10 in the nation for students studying abroad
- More than 600 global initiatives worldwide



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Times Higher Ed, 2014

100

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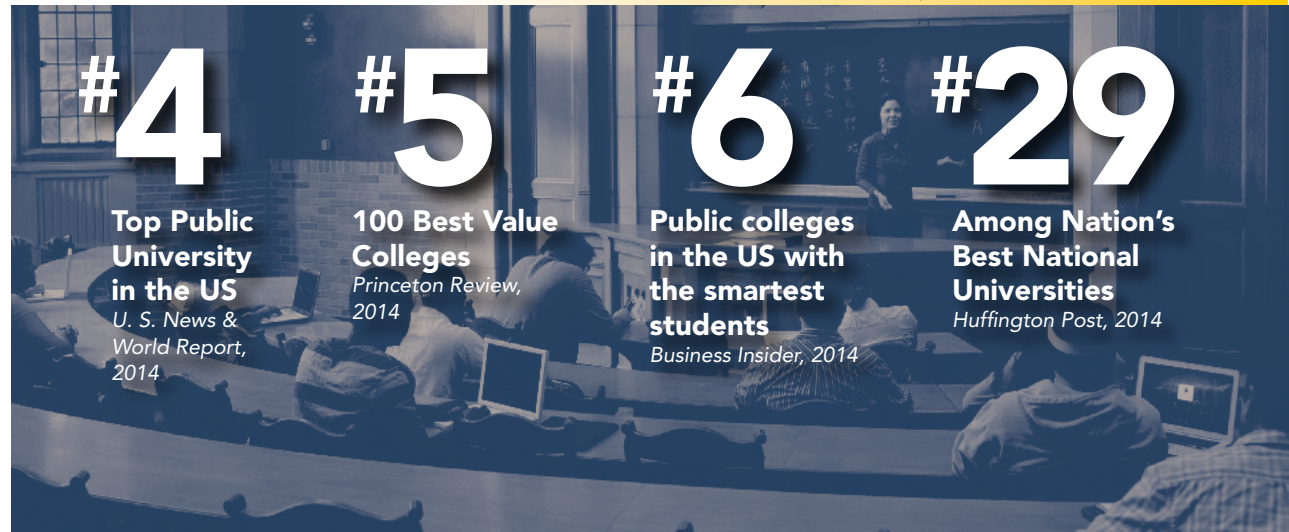
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Mark Schlissel Named New U-M President

On July 1, 2014 **Mark S. Schlissel, MD, PhD**, was appointed the 14th president of the University of Michigan. President Schlissel, formerly provost of Brown University, succeeded **Mary Sue Coleman**, who is retiring after 12 years leading U-M.

“Mark Schlissel brings an exceptional portfolio of scholarship and leadership, and just as importantly a tremendous commitment to Michigan’s public ethos,” said **Andrea Fischer Newman**, chair of the University of Michigan Board of Regents. “I am confident Mark will lead the university into its next century focused on our deepest ideals of world-class academic excellence and public impact.”

President Schlissel, age 56, is a nationally recognized biomedical researcher who has risen through the ranks of academic and administrative positions in higher education. Before being named provost at Brown in 2011, President Schlissel was University of California at Berkeley’s Dean of Biological Sciences in the College of Letters & Science and held the C.H. Li Chair in Biochemistry.

“It is a tremendous honor to be entrusted with the presidency of one of the nation’s great public universities,” President Schlissel said. “I will bring to Michigan a fierce commitment to the

importance of public research universities, a strong and personal belief in the ability of education to transform lives, and the understanding that excellence and diversity are inextricably linked.”

A graduate of Princeton University (AB, summa cum laude, Biochemical Sciences), President Schlissel earned both MD and PhD degrees at the Johns Hopkins University School of Medicine. He did his residency in internal medicine at The Johns Hopkins Hospital and was a postdoctoral research fellow at the Massachusetts Institute of Technology’s Whitehead Institute for Biomedical Research.

President Schlissel noted the synergy between research and an excellent educational environment. “Students get to learn from faculty who are defining the leading edge of human knowledge and curiosity; and the imagination and energy of our students contribute to the research enterprise. The university’s nearly 200-year history, its great faculty and steady stream of gifted students, and its strong culture of interdisciplinary collaboration allow it to tackle the toughest long-term problems for the public good.”



President Schlissel will take over the helm of the \$4 billion Victors for Michigan fundraising campaign launched last year. The campaign is the largest ever in the university’s history and its highest priority is to raise funds for student support.

“I promise to do my best to live up to the University’s highest ideals. I will work to enhance access and affordability, to promote academic excellence, and to support research and teaching of the highest impact and greatest value to society,” President Schlissel said.

President Schlissel, born in Brooklyn, N.Y., has been married for 29 years to Monica Schwebs, an environmental lawyer. They have four grown children.

RESOURCES

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- Submit Your Personal News** ▶ pharmacy.umich.edu/submitpersonalnews
- Planned Giving** ▶ michigan.giftlegacy.com
- Ways to Give** ▶ pharmacy.umich.edu/alumni-friends/giving
- Regents Bios** ▶ regents.umich.edu/about/bios

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KEY DATES FOR 2015

Research Forum
February 13, 2015

APhA Conference
March 27-30, 2015

Awards Banquet
April 23, 2015

Commencement
April 25, 2015

**Board of Governors
Spring Meeting**
June 8, 2015

**Alumni & Friends
Golf Scramble**
June 9, 2015

AACP Annual Meeting
July 11-15, 2015

White Coat Ceremony
October 7, 2015

**Annual Pharmacy Lectures &
Homecoming Reception**
October 9, 2015

**Homecoming Tailgate &
U-M Football Game**
October 10, 2015

AAPS Conference
October 25-29, 2015

**Dean's Advisory Committee
Meeting & Prescott Society Dinner**
November 6, 2015

ASHP Mid-Year Meeting
December 6-10, 2015



"Faculty, administrators, and staff are committed to serving as positive role models for students."

98.7% of Graduating Students (Class of 2014) agree

"Preceptors provided me with individualized instruction, guidance, and evaluation that met my needs as a Doctor of Pharmacy student."

98.7% agree

"I am prepared to enter pharmacy practice."

97.3% agree

Go Blue!

100% agree



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