LOOKING BACK
ON DEAN MARILYN SPEEDIE’S
21 YEARS OF LEADERSHIP

1 Guest Column
2 Milestones Timeline
14 Comparing the Years
16 Weaver Medal Recipients
17 Dean’s Letter
18 Donors Terry & Bette Noble
20 Donor Societies & Annual Fund Donors
24 Graduates
26 Administration
27 Endowed Chairs
28 Financial Information
Dear Friends and Alumni

It is an honor for me to write the Dean’s Column for this year’s annual report, as this document is a reflection on the 21 years that Marilyn Speedie served as dean.

It was about this time last year that Dean Speedie announced she was going to retire. We are happy that our search for a new dean was successful and very pleased that our new dean will be Dr. Lynda Welage from the University of New Mexico School of Pharmacy. We are all looking forward to working with Dean Welage to continue our Minnesota, national and international mission.

For this column, I am going to speak from the heart about Marilyn because I know that many of you feel the same way about her as I do.

When I arrived at the College of Pharmacy in 2005, I did not know that I was about to develop a wonderful relationship with someone who would be my boss but, more importantly, my colleague, mentor and friend.

Marilyn is an excellent mentor who has encouraged me to dream, look for opportunities, turn ideas into exciting images, and to take risks. That encouragement doesn’t mean I did not need a well laid out plan that was agreed upon and met budgetary stipulations, but it did create innovation, one of the most significant attributes that makes this college the second highest ranked U.S. pharmacy school. She has always had a “go for it” attitude, and encouraged me to develop fresh ideas and approaches to problems, as well as to follow my passion.

One thing I greatly admire about Marilyn is her ability to inspire and build consensus. She is a very patient leader. I certainly appreciate her willingness to invest in people and to trust those whom she has entrusted. Even when things have not gone the way we wanted, we could always count on Marilyn to have our back.

There are many reasons why Marilyn has led this college and profession to so much success (which you can read about in the following pages). Her visionary leadership that has tied the College of Pharmacy to the profession and practice has become one of the most important values of our college. I think this is why we are so highly regarded as a college. Her vision to not just train new pharmacists but push to advance the practice has been important in positioning this college, our graduates and alumni for future success.

Marilyn will be leaving with a wonderful legacy of building this into a superb college with its high rankings, “One College, Two Campuses” culture, investment in faculty and staff, advancement of the practice of pharmacy, and positioning and advocacy for the college and profession. I am personally grateful for the past 12 years to have been part of this journey.

One day we shared each of our top five strengths from StrengthsFinder. One of Marilyn’s was Futuristic. The description of this strength is someone who is inspired by the future and what can be. They inspire others with their visions of the future. I think that says a lot about the kind of person and leader Marilyn is.

Marilyn, from all of us:
Thank you for your vision, leadership, mentorship and friendship.
We wish you the very best always.

Randy Seifert
Senior Associate Dean
Marilyn Speedie becomes the sixth and first female dean in the college’s history.

Nils Hasselmo is U president.

Frank Cerra is senior VP of health sciences.

FDA Approves Diastat®
A diazepam rectal gel used to treat seizures, the research to develop Diastat was a collaboration between the college and Upsher-Smith Laboratories, Inc., a local pharmaceutical company. The rectal gel is an alternative to I.V. diazepam for patients who take anti-epileptic medications but still suffer from serious breakthrough seizures, known as cluster, serial or acute repetitive seizures. I.V. diazepam treatment is difficult to administer to someone having convulsions, and has potential dangerous side effects such as hypotension, cardiac dysrhythmia and central nervous system depression.

Pharmaceutical Care Laboratory
The Pharmaceutical Care Laboratory opened in fall 1995 to replace the dispensing and science labs when the college shifted to a PharmD program. Not only a physical space, the college led the nation in practice labs—a state-of-the-art setting for students to focus on patients as well as prescriptions. Students begin their studies in this laboratory in their first professional year. Previously, students did not apply classroom theory until the third professional year, when they completed clerkships and externships. The design of the lab is broken into areas for pharmacy practice vignettes such as community pharmacy, hospital and institutional pharmacy, drug analysis and compounding, and patient care services. In the beginning of the PharmD program, students learn the mechanics of providing drug therapy and, as knowledge increases, the laboratory provides more sophisticated challenges.

Health Sciences Unit F, home of the College of Pharmacy since 1981, is renamed Weaver-Densford Hall after Lawrence Weaver (College of Pharmacy dean, 1966-1984 and interim dean, 1994-1995), and Katharine Densford (School of Nursing director, 1930-1959).

Nation’s first Rural Health School begins in Moose Lake, New Ulm and Grand Rapids. Pharmacy students are teamed with medical, nurse practitioner and physician assistant students to learn about patient care.

Lawrence C. and Delores M. Weaver Medal for Distinguished Contributions to Pharmacy Education, Research or Outreach is established.

Mark Yudof becomes U’s 14th president.

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Anti-AIDS drug Abacavir (Ziagen™) is commercialized.

Century Mortar Club classroom is renovated to promote active learning and increase the classroom seating from 80 to 100 students.

Two-year Pharmaceutical Care Leadership Residency established.

First entry-level PharmD class to complete the new curriculum in its entirety graduates.

Doctor of Pharmacy Program for Practicing Pharmacists Launched

In 1998, the college began offering a nontraditional PharmD program, the Doctor of Pharmacy Program for Practicing Pharmacists, designed to accommodate the professional and personal lives of practicing pharmacists. Credit was given for prior professional experience. Designed under the leadership of Henry Mann, the program’s hallmark was a cohort model of adult education, one in which students who entered the program at the same time proceeded through all course requirements and graduated together. By the time of its closing in 2007, 112 pharmacists received their PharmD degree through this program. “The program brought together diverse groups of students with varied skills who were able to learn from their preceptors and instructors as well as from one another,” said Kristin Janke, who served as program director.

Pharmacy Practice Act Revisions

Revisions to the Pharmacy Practice Act (PPA) passed unanimously. PPA now defines pharmacists’ roles in the collaborative management and modification of drug therapy, administration of the first dose of medication and medical emergency doses, patient counseling and drug therapy research.

AIDS Drug Settlement

The University reached a settlement with Glaxo for the AIDS drug Ziagen, developed by medicinal chemistry faculty member Robert Vince, with the college receiving 8 percent of royalties and the department of Medicinal Chemistry receiving another allocation.
Pharmacogenomics

The Human Genome Project revealed that 99.9 percent of our DNA is identical, but that 0.1 percent affects our health as much as our unique appearance. This scientific breakthrough prompted pharmacy experts to develop a new specialty within the field—pharmacogenomics—to determine how genetics traits affect drug response.

Engebretsons Have a Lasting Impact on the College's Drug Discovery Initiatives

Sponsored by Duane and Glenn Engebretson (class of 1943), the Engebretson Symposium was established to bring together top researchers to share ideas and expertise on new drug therapies. Their Engebretson Drug Design and Development Grants have supported a number of faculty’s drug discovery work in areas such as Alzheimer’s and cancer. “Duane and Glenn’s generosity over the years has been crucial to our faculty’s ongoing work in drug discovery research,” said Dean Marilyn Speedie.

Shortage of Pharmacists Identified

The college, along with the Minnesota Department of Health, surveyed pharmacists in rural areas and hospital directors in the Twin Cities. The survey found that 200 to 400 pharmacist positions are unfilled and that the shortage is more acute in rural areas.
One College, Two Campuses

Following three years of planning, the College of Pharmacy, Duluth was founded in response to a profound shortage of pharmacists in the state that resulted in a dramatic loss of pharmacy services in communities, especially in rural Minnesota communities when retiring pharmacists could not find replacements for themselves. Starting in 2003, the college added a class until it had a full cohort of students in 2006. While the expansion increased student enrollment by 50 percent, the number of students from Greater Minnesota increased by more than 100 percent from 2002 to 2003. The Duluth expansion was made possible through partnerships with UMD, the Duluth community, health systems and pharmacies in Duluth and throughout the state.

Stephen Hoag
is named Senior Associate Dean for the Duluth program. He served in this role until 2007.

First White Coat Ceremony
is held for the college’s 76 third-year students as a symbolic gesture to instill professionalism in the students beginning clinical rotations.

Capital Campaign
exceeds its $6 million goal.

Duluth campus welcomes its first class of students in August as the first branch expansion of the college in its 110-year history.

College is ranked #4 pharmacy school in the nation by U.S. News & World Report.

Enhancing Pharmacists’ Ability to Serve Public Health

Legislature approved important advances in our ability to take care of patients. Pharmacists are now allowed to administer influenza and pneumococcal vaccines to adults 18 years and older under a standing order from a
The legislature also approved bonding funds for the Translational Research Facility, which will house 200 researchers, including some from the College of Pharmacy.

**Rural Pharmacy Preservation Act**

The Rural Pharmacy Preservation Act was developed after a study of 126 rural communities revealed 216,000 patients were required to travel an average of 22 miles to a neighboring town to receive medications. This Act preserved access to pharmacy services for rural Minnesotans and included incorporation of rural pharmacy planning and a transition grant program. Additionally, the Act included a new graduate loan forgiveness for pharmacists practicing in needful rural regions.

**Experiential Education Sites Expanded**

To meet the needs of the expanded professional program, students are encouraged to consider practice opportunities outside the metro and care for all Minnesotans. The college increased its number of experiential education sites in Greater Minnesota. The recently added sites bring the number of experiential education sites around Minnesota to 325 and another 45 outside the state. Of those sites, about 122 are in rural communities.

**Medication Therapy Management Services**

The Minnesota Legislature directed the Minnesota Department of Human Services to pay qualified pharmacists for Medication Therapy Management Services (MTMS) for Medical Assistance or MinnesotaCare recipients effective for dates of service on or after April 1, 2006. The MTMS program was developed with input from an advisory committee representing pharmacy groups and other interested parties.

**Gunda Georg Joins the College**

Gunda Georg, a world-renowned researcher in drug discovery and development, joined the college as head of the Department of Medicinal Chemistry, the Robert Vince Chair in Medicinal Chemistry, the McKnight Presidential Chair in Medicinal Chemistry, and Director...
of the newly established Institute for Therapeutics Discovery and Development. Georg is highly regarded for her research on discovering and developing potential drugs to treat cancer and developing contraceptive agents.

The National Institutes of Health identified Georg as one of the top five percent of researchers receiving funding during the past 25 years. Through collaboration with the Masonic Cancer Center and the Medical School, her hiring establishes drug discovery and development as a major focus of the University.

Recently, a phase 1 clinical trial launched to assess the toxicity of Minnelide, a pancreatic cancer drug based on patented technology from Georg’s lab. She is also at the forefront of developing a non-hormonal pharmaceutical solution to stop sperm from ever reaching maturity, and she is working to develop a non-hormonal birth control pill for women.

Century Mortar Club Celebrates its 40th Anniversary

The Century Mortar Club—a dedicated group of alumni, pharmacists and friends committed to enhancing the student experience and investing in pharmacy’s future—gathered in 2008 with William Hodapp serving as the guest speaker. Founding members Hodapp, Barry Kreitz and Larry Weaver were honored for their contributions.
Experiential Education Program expands to offer first and second-year students exposure to pharmacy practice through three-week Community and Institutional Introductory Pharmacy Practice Experiences (IPPEs).

The college begins offering PharmD/MBA dual degree for students already enrolled in the PharmD program.

Krelitz and assistant secretary treasurer Karl Leupold received the Century Mortar Club’s Friend of the Year award. Many volunteers were recognized for their service over the past four decades. Each person recognized received a mortar and pestle.

Student-Provided Care

After three years of planning, the HOPE (Health of People Everywhere) Clinic began seeing patients in 2008, operating two hours every Tuesday afternoon at the Churches United in Ministry Center, a homeless shelter and community center in downtown Duluth. The clinic is a free triage and referral clinic run year-round by Duluth student pharmacists and student physicians from the University of Minnesota Medical School, Duluth. The clinic provides patient care and facilitates entry into the Duluth area healthcare system for adults from underserved populations while training student pharmacists and student physicians to work interprofessionally to provide patient care.
Advancing Practice

A pioneer in the advancement of medication therapy management (MTM), the college is also a national leader in innovative design and delivery of MTM services as a health plan benefit. In 2007, Randy Seifert proposed an MTM pilot as a benefit for Duluth-based University employees. Based on its success, the MTM benefit was expanded to all eligible employees and dependents enrolled in the University’s health plan in 2009. Today, other employers across Minnesota have contracted with the network to provide MTM services to their employees. “Our goal is to have pharmacists practice their skills at the top of their training,” said Seifert. “We have situated our network in a position that allows them to respond to the changes in health care delivery for the benefit of patients.”

Expanding Global Education

A new international Advanced Pharmacy Practice Experience (APPE) is developed: “Comparative and International Perspectives in Pharmacy Care” in Germany. In 2012, the college added another international APPE in Tanzania, and in 2015 the college joins a consortium of five top-ranked schools in China to establish a program to educate the next generation of clinical pharmacy leaders in that country.

E-learning initiative launches, which includes a portfolio of online courses for undergraduates, other health professional students and practicing pharmacists.

College joins new initiative that unites resources from across the U in an effort to improve success in drug discovery and development, and increase the number in human, phase I clinical trials.

The college receives the full six years of accreditation by the Accreditation Council for Pharmacy Education.

Student team wins American College of Clinical Pharmacy’s first annual Clinical Pharmacy Challenge.

A group of students in Germany for an international Advanced Pharmacy Practice Experience.

2010

2010

2010

2010

2010
Creating Academic Pharmacy Leaders for the Future

The College of Pharmacy’s faculty members are renowned leaders in education, practice and policy. During Dean Speedie’s tenure, several faculty were recruited to serve as dean of other pharmacy schools: Rod Carter was named dean of the Regis University School of Pharmacy, Courtney Fletcher was named dean of the University of Nebraska School of Pharmacy, Henry Mann was named dean of the Leslie Dan Faculty of Pharmacy at the University of Toronto (and subsequently moved to the Ohio State University College of Pharmacy), Charles Taylor was named dean of Northeast Ohio Medical University College of Pharmacy (and subsequently moved to the University of North Texas System College of Pharmacy), and Tim Tracy was named dean of the University of Kentucky College of Pharmacy. Also, Henning Schroeder was named dean of the U of M Graduate School.
New Curriculum Launched

After years of planning, the college launched its new curriculum focused on preparing pharmacists to work in an ever-changing environment and as a critical member of the health care team. The curriculum is designed to educate pharmacists who are outstanding clinicians with a strong scientific foundation and prepared more intensively for the new biology and personalized medicine, nanomedicine, pharmacogenomics, and cellular, gene and protein therapies.

Threaded throughout the four years are competency domains: patient-centered care, population health and vulnerable communities, health systems management, leadership and engagement, professional and interprofessional development, and scientific inquiry and scholarly thinking. “The goal is to produce collaboration-ready pharmacists who can work in an ever-changing environment,” said Dean Speedie.

New technology enhanced classrooms were also unveiled on each campus in Duluth and the Twin Cities to provide robust active learning environments designed to facilitate small group work and distance learning through integrated and automated video conferencing. The classrooms also offer unique active learning pods designed to encourage student collaboration and peer teaching.

Stephen Schondelmeyer Receives Prestigious Awards

Stephen Schondelmeyer received the 2014 Tyler Prize for Stimulation of Research from the American Pharmacists Association, which recognizes an individual for encouraging research by peers, students, fellows, residents and others via publications, or by directing research, serving as a preceptor, or mentoring in any discipline of the pharmaceutical sciences. The award is considered one of the three most prestigious scientific awards of the American Pharmacists Association and is presented every three years. That same year he also received the Harold R. Popp Award sponsored by the Minnesota Pharmacists Association—the highest honor bestowed by the association.

Pharmacists’ Expanding Roles

The Pharmacy Workforce Center’s 2014 National Pharmacist Workforce Survey showed that pharmacists
are performing more patient care activities in a variety of healthcare settings and spending less time in the traditional dispensing role. Also, pharmacy has shifted toward a female-dominated profession, with more women than men serving as actively practicing pharmacists and in management positions. This study was the fourth in a series of surveys conducted by the Midwest Pharmacy Workforce Research Consortium, which is led by College of Pharmacy faculty members Caroline Gaither and Jon Schommer.

**New Interprofessional Partnerships**

In 2015, pharmacy faculty joined one of the only nurse practitioner-led clinics in the region. The clinic aims to improve access to qualified care providers in a diverse and growing community. “To our knowledge, this is the first time pharmacists have partnered with nurse practitioners to provide primary care in a nurse-managed clinic,” said Kylee Funk, who provides comprehensive medication management services at the clinic.

The college also partnered with the U’s School of Dentistry to add a pharmacy practice in the general dentistry clinic. The practice started with a pharmacy resident and today includes pharmacists on the dental teams. Pharmacy faculty also collaborate with the school to offer their students and practicing dentists online training for basic and comprehensive immunizations as well as managing pain and preventing addiction.

**New Epilepsy Drug Approved by FDA**

The FDA approved Carnexiv™ (carbamazepine) injection as a short-term replacement therapy for oral carbamazepine formulations in adults with certain seizure types when oral administration is temporarily not feasible. James Cloyd, Angela Birnbaum and Ilo Leppik helped conduct early clinical proof-of-concept studies.
U of M joins a team of academic institutions, private companies, governmental entities and nonprofit organizations across the U.S. as a partner for the newly established National Institute for Innovation in Manufacturing Biopharmaceuticals.

The college ranks #2 in the nation by U.S.News & World Report.

College of Pharmacy receives the full eight years of accreditation from the Accreditation Council for Pharmacy Education.

Kylee Funk provides comprehensive medication management at one of the only nurse practitioner-led clinics in the region.

which were instrumental in developing the formulation of Carnexiv, making intravenous administration possible. Carnexiv is the second drug product for epilepsy whose development originated with the college’s epilepsy research group. The first was rectal diazepam (Diastat).
Lawrence C. and Delores M. Weaver Medal for Distinguished Contributions to Pharmacy Education, Research or Outreach Recipients:

1996
Lawrence Weaver
Delores Weaver

1997
Frank DiGangi

1998
Arnold Delger

1999
Cherie Perlmutter

2000
Robert Cipolle

2001
James Cloyd
Hugh Kabat
Phillip Portoghese
Ronald Sawchuk

2002
Lowell Anderson

2003
Julie Johnson
Darwin Zaske

2004
Henry Mann

2005
Yusuf Abul-Hajj

2006
Steven Simenson
Wendy Simenson

2007
S. Bruce Benson

2008
Kenneth Miller

2009
Stephen Schondelmeyer

2010
Donald Dee

2011
Ronald Hadsall

2012
Frank Cerra

2014
Marilyn Speedie

2015
Timothy Stratton

2016
Randall Seifert
Dear Alumni and Friends

I am excited to bring you this annual report, which is focused on my 21 years as dean of this college. We have accomplished a great deal in that time, undergone a lot of change and growth.

We have expanded our ability to serve the citizens of Minnesota and the world, and improved the quality and numbers of our graduates. I believe they are leaving our college with the ability to provide patient care and to lead change in the profession.

We have expanded our research funding but also the impact of our research. We are making important contributions to drug discovery and development, drug delivery, pharmacogenomics, clinical trials, informatics, pharmacoeconomics, and understanding drug-taking behaviors, among other areas.

We are contributing to the advancement of the profession in its ability to serve patients in new models of interprofessional health care.

These are all accomplishments to be proud of, and I am proud.

I am also humbled by the accomplishments of the individual faculty, staff and students who make up this organization. They are extremely innovative and hardworking, and have developed their individual national and international reputations. It is the collective impact of these individual efforts that result in our #2 ranking by U.S. News & World Report. As people look at us and rank us, they reflect on the individual employees and students, residents, pharmacists they know who are at our school or have come from the school. They look at the progressive nature of the practice in Minnesota. And, then they rank us highly because we are innovative, we are known, we are having an impact on the world, and we produce outstanding graduates.

Certainly one of my contributions is to create an environment which is supportive of the people doing all this work. In fact, I have been instrumental in hiring 80% to 90% of the current faculty of the college. We have been fortunate to be able to hire new faculty in all departments, and we have been extremely strategic in our selections. We have defined areas of science, practice and education in which we wish to excel, and we have hired the very best candidates we could find. In this manner we have built groups who work together to accomplish each of these areas which are aligned both with our strategic plan and with the Academic Health Center and the University.

Our #2 ranking and the rich, stimulating and collaborative environment the University of Minnesota presents helps us land the people we want since candidates see that they will succeed here. We also pay a great deal of attention to building a diverse faculty and to mentoring of junior faculty members.

The future of the college lies in capable hands. Incoming Dean Lynda Welage is inheriting an outstanding organization, and she is well-experienced and has the right skills and abilities to carry it forward. I am excited to see where we are going.

This past year we have created a 2017–22 strategic plan (available on our website www.pharmacy.umn.edu/about/mission-and-vision) with input from all faculty as well as students and alumni, including many of you. Thank you for your participation. It is well thought out and should guide our future.

As always, we value your contributions of your time, talent and treasure. Without your involvement, our ability to meet our mission would be greatly diminished. I hope you feel pride in what we have accomplished together.

I thank you for the privilege of serving as your leader. While I am looking forward to new adventures and fewer demands on my time, I still think this was the best job in the world, and as Confucius said, “When you have a job you love, you never have to work a day in your life.”

I wish you all well. Thanks for our time together.

Marilyn K. Speedie, Ph.D.
Dean
Terry and Bette Noble: Supporting drug development to help save lives and alleviate suffering
An ingenious invention that allows pharmacists to easily dilute antibiotics. A simple, elegant, compartmentalized plastic case — inspired by one patient’s creative use of an egg carton — to help people organize their weekly pill regimens. Lifesaving medical jewelry for allergy sufferers, diabetics and heart patients.

These are the innovations that made Apothecary Products — cofounded by College of Pharmacy alum and donor Terry Noble — an international leader in consumer wellness.

The driving spark has always been making it easier for patients to comply with their physicians’ instructions. In his pharmacy practice, Noble often observed how easy it was for things to break down between the prescription pad and the complications of patients’ daily lives.

“We never lost sight of the patient,” Noble says. “How do we make things simpler for patients — and for pharmacists? How do we bridge the gap between the ideal and the real? That was always the keel of the ship.”

That itch to constantly improve patient health has also fueled the Baudette, Minn. native’s quiet philanthropy over the years. With his wife Bette, Noble has made major donations to the College of Pharmacy, supporting research to advance treatment of ovarian cancer and opiate addiction.

“Sixteen years ago, Bette was diagnosed with stage 3 ovarian cancer, and they gave her four months to live,” Noble says. “Today — thanks to Taxol, her Mayo Clinic oncologists, and five major surgeries — she’s alive and thrilled to be here.”

As for drug addiction, “it’s something that permeates our society and touches all of our lives.”

He’s grateful for the college’s role nurturing his success and savoring the opportunity to give back.

The Nobles have strenuously resisted the spotlight, always making their gifts anonymously. Terry Noble only agreed to be profiled upon learning that this year’s annual report would focus on outgoing Dean Marilyn Speedie, whom he admires and appreciates.

“She always kept after me,” Noble chuckles.

He’s also thankful to her predecessor, Larry Weaver, “a neat guy” who helped make the college the world-class entity it is today, and Frank DiGangi, who was “really instrumental in launching my career.”

Noble treasures his memories of his time at the U. “It was a memorable time and a great environment,” he says. Among his most vivid memories is living, junior year, in an apartment above the restaurant where he worked. One early morning, after a late night in which Noble — a hockey player — had returned from playing a game in Sioux City, he was awakened by his roommate; their building was on fire.

Noble assumed his roommate was playing a prank and went back to sleep. The roommate returned: “I told him to get out of my room. He came back a third time, and we heard a sound like a broom sweeping, then the whole room exploded.” The two escaped, wrapped in nothing but curtains. All their possessions went up in smoke.

“I lost all my books, all my work. We were right in the middle of final exams. But the profs were terrific,” Noble says, and he had the support to finish the year strong. “The College of Pharmacy was a like a small town; everybody knew each other.”

After graduating in 1966, Noble served in the Marine Corps, then went on to work as a pharmacist for Target. His interaction with patients and passion for problem-solving would turn Noble into a moonlight inventor.

From Apothecary Products’ inception, when Noble tinkered with the Reconstitube prototype in the basement of the bungalow he shared with a pregnant Bette, through its growth into a global standard-bearer, Noble kept the patient's challenges and needs at the core of their work.

“We listened to patients,” Noble says. “And we never stopped trying to improve — the goal was always to render archaic our last patent.”

Noble sold his company in 2014 and spends the greater part of the year in Naples, Florida where he still plays hockey three times a week, fishes, plays golf, and stays involved with numerous charities through the foundation he and Bette established.

“I’m proud that we helped to solve some of the myriad issues involved with patient compliance and thus improve the health of the patient,” Noble says. “I’m looking forward to continuing that focus through the College of Pharmacy as a donor.”
Ph.D. and M.S. Graduates

**Experimental and Clinical Pharmacology Ph.D.**
- Mariam Adel Tohamy
- Ahmed Malek F. Okour
- Chay Ngee Lim
- Taraswi Mitra Ghosh
- Kinjal Jayesh Sanghavi

**Medicinal Chemistry M.S.**
- Denise Casemore

**Medicinal Chemistry Ph.D.**
- Skye Doering
- William Fiers
- David Huang
- Kimberly Maize
- Jingjing Shen
- Nicholas Struntz
- Adam Zarth
- Bo Zhou

**Pharmaceutics M.S.**
- Vidhi Devendra Khanna
- Shail Panchamia
- Saif Shahriar Rahman

**Pharmaceutics Ph.D.**
- Stephen M. Kalscheuer
- Mehak Mehta
- Pinal Mistry
- Karen Eileen Parrish
- Nidhi Sharda

**Social and Administrative Pharmacy Ph.D.**
- Basma Gomaa
- Miigis Gonzalez
- Claire Kolar
- Sirikan Rojanasarot
- Rebecca St Germaine

**Social and Administrative M.S.**
- Lucy Johnson
- Jesse Peterson
Pharm.D. Graduates

Sabiha Fathima Ahmed
Ahmed Omar Ali
Emily Jean Anderson
John Jeffrey Anderson
Angela Ann Armbruster
Scott Baird
Michael Matthew Baker
Kellie Laurine Bartlett
Jenna Marie Bednar
Carl Andrew Bergquist
Yonatan Eyob Berhe
Caitlin Dole Bernett
Martin Philip Bloch
Kent Virgil Bridgeman
Emily Bruggeman
Erin Marie Burton
Melanie Marie Campbell
Kaitlin Ruth Carlson
Tim M. Casey
Scott Louis Casper
Kristy Maitong Chang
Yi-Chieh Chen
Julia Rachel Cherryakov
Helen Chiajung Chiang
Alex Wei-Jen Chien
Aaron Thomas Creech
Chrissy Czyalla
Mark Desjardins
Benjamin Devine
Sandy Bingyun Dong
Adeline Douanla
Benjamin Michael Dresow
Justin John Dullinger
Alexandra C. Edlund
Kaitlyn Ann Erickson
Chidera Chiamaka Esele
Gudina Andea Eticha
Jason R. Evers
Randa Safwat Fahim
Bemnet Tilahun Fanta
Wesley Joseph Franke
Stephanie Lynn Gibbs
Nouh Tufa Gobena
Nicholas Joseph Goeden
Brandi Marie Gossard
Anthony Michael Granda
David James Green
Emily Katherine Grjic
Abigail Marie Guderian
Logan James Gylten
Matt Haak
Brittany Adella Hawke
Tara Marie Hawley
Jennifer Erin Heath
Michael Thomas Heikkinen
Jeremy Michael Helle
Justin A. Himes
Yan Yan Huang
Alissa Marie Huhn
Joy Faith Hwang
Angela Jeong
Micah William Johnson
Jessica Marie Jones
Lauren Elizabeth Kaldun
Amrita Karia
Kaitlin Rose Keyworth
Boramy Kim
Ilhoe Koo
Brian Francis Korus
Duane Edwin Koski III
Kameron Nicholas Krueger
Callie Anne Krummel
Lindsay Elizabeth Kubina
Amanda Kurtti
Victor Lai
Jennifer Marie Lamermayer
Ryan Michael Langem
Jonathan James Lanthier
Kristina Louise Lantis
Christine Ann Larsen
Mimi Le
Bohyun Lee
Brett Michael Leja
Travis John Liebhard
Yi-Fang Lin
Levi Raymond Long
Albert Gin Lu
Elizabeth Ludewig
Lindsay Marie Lundell
Nguyen Tam Luong
Jessica A. McCabe
Bridget Alanna McGugan
Valerie Milazzo
Megan Joy Miller
Patrick T. Miller
Meena Nachammal Murugappan
Breacha Marie Nelson
Curtis Michael Henry Nelson
Deeter Ryan Neumann
ShuYoung Ng
Chioma Frances Nnolim
Mark Inpone Nola
Kimberly Elizabeth Park Overman
Eunice Jieun Park
Ajay Ramji Patel
Mrugesh Nareshkumar Patel
Neal Patel
Jonathan Chorana Pin
Monica Dhanesha Premsukh
Julia Lynn Prokop
Rebecca Ann Pulk
Ha Thu V. Quach
Alyssa Marie Quitschau
Andrew Steven Radzak
Krishna Shankar Rangarajan
Nicole Reinarz Stover
Ben David Reynolds
Jacob Kenneth Riley
Zachary Thomas Rivers
Rachel Elizabeth Rockwell
Ernest L. Ruiz III
Toni Marie Salvatore
Jill Marie Scheel
Sheila Kay Scheuer
Nichelle J Schloemer
Jessica Marie Shannon
Paige Alexandra Skelton
Kehly Brianne Skoog
Amber Nikole Soukkala
Jill Kathryn Spitzmueller
Erik Alexander Stoa
Grant Douglas Syverson
Fei Tang
Sarah Taylor
Wrenda Teeple
Kyle Thomas Townsend
Joseph Paul Vargo
Huong Xuan Quynh Vu
Mary Katherine Walters
Erin Kathleen Warner
Landon Lewis Weaver
Shelby Lynn Weiss
Steven Lee Wesbur
Erin Weslander
Laura Anne Westlund
Jessica Ann Wiens
Jonathan Jay Wilson
Ting-Ting Wu
Carolyn Mai Der Xiong
Maria Yang
Rebecca Yang
Angela Kathleen Yarbrough
Susan Yeung
Kwangchae Yoon
Benjamin Haesung Yun
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Julie Johnson, Pharm.D. associate dean
Mike Swanoski, Pharm.D. co-associate dean
Sarah Westberg, Pharm.D. co-associate dean
Jeannine Conway, Pharm.D. assistant dean

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Gunda Georg, Ph.D.
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Robert Straka, Pharm.D.

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Darren Hoff human resources director
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Wendy Simenson
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Jill Strykowski
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Bruce Thompson
Mark Trumm
Dianne Witten

New Faculty

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Assistant Professor
Pharmacy Practice & Pharmaceutical Sciences

Diana Langworthy
Assistant Professor
Pharmaceutical Care & Health Systems

David Stenehjem
Assistant Professor
Pharmacy Practice & Pharmaceutical Sciences

Jared Van Hooser
Assistant Professor
Pharmacy Practice & Pharmaceutical Sciences
JAMES CLOYD
Lawrence C. Weaver Endowed Chair in Orphan Drug Development

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Endowed Chair in Medicinal Chemistry

ENDOWED CHAIRS

STEPHEN SCHONDELMEYER
Century Mortar Club Endowed Chair in Pharmaceutical Management & Economics
Sources for Fiscal Year 2016 (in millions)

- Tuition & Fees: $23.9
- State Support: $5.4
- Royalties: $0.1
- Gifts & Endowment Income: $2.5
- Indirect Cost Recovery: $4.5
- Grants & External Sales*: $3.9
- Transfers (Net): $4.0
- Sponsored (Direct): $12.1
- Total Sources: $56.5

*Includes accounts receivable and deferred revenue.

Uses for Fiscal Year 2016 (in millions)

- Salaries & Benefits: $36.1
- General Lab Supplies: $8.9
- Consulting Services: $2.3
- Student Assistance: $0.9
- Equipment & Facilities: $8.9
- Central Assessments: $8.7
- Total Uses: $57.8

Sources for FY 2016 (in millions)

<table>
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<th>Sources</th>
<th>FY 2016 (in millions)</th>
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The College of Pharmacy improves health through innovative education, pioneering research, and interdisciplinary practice development that attends to the diverse needs of the people of Minnesota and the world.

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