Dear colleagues and friends,

A wise man once said, “The only thing constant is change.” Modern-day change seems to come at us from all sides at a dizzying rate. That is why I am so proud that as a college we seek to adapt to change, that our programs and services evolve to serve the profession, and we transform ourselves as necessary to contribute to pharmacy’s future success.

These principles lay at the core of who we are as a college. One excellent example of our ability to meet the challenges of the future is the pharmacy practice lab. Starting in their first semester, our PharmD students experience real and simulated practice experiences in our technologically-advanced and licensed PPL. Our PPL is a model for other pharmacy schools across the country—in fact, our faculty are literally writing the book that practice labs will use as a teaching tool!

Iowa Drug Information Service, one of the college’s oldest service divisions, has been in the business of providing database and drug information to subscribers worldwide for 46 years. Originally produced on microfiche, subscribers now have access to the IDIS 4.0 Drug Database, as this distinguished service continues to provide access to primary literature regarding medication use.

Professor Lawrence Fleckenstein has been a leading researcher of malaria and parasitic infections for over two decades. A recent publication in the New England Journal of Medicine showed how this collaborative international research is making breakthroughs in the treatment for infectious diseases worldwide.

These are just a few of the ways that our college is adapting to meet the needs of the 21st century. It’s a great time to be a Hawkeye and call the University of Iowa College of Pharmacy home!

Don
Annual Report 2012

About the Annual Report

The University of Iowa College of Pharmacy publishes the annual report once every year for alumni and friends. If you are using Internet Explorer, it is best viewed in IE9 or greater.

The University of Iowa prohibits discrimination in its employment and in its educational practices and activities. For additional information, contact the Office of Equal Opportunity and Diversity at (319) 335-0705 (voice) and (319) 335-0697 (text), 202 Jessup Hall, The University of Iowa, Iowa City, Iowa 52242-1316.

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Department of Pharmacy Practice and Science

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Division Head
Pharmaceutics and Translational Therapeutics
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Department of Pharmacy Practice and Science

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Department of Pharmaceutical Sciences and Experimental Therapeutics
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Department of Pharmacy Practice and Science

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Division of Health Services Research
Department of Pharmacy Practice and Science

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Department of Pharmacy Practice and Science
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Assistant Professor  
Division of Health Services Research  
Department of Pharmacy Practice and Science

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Assistant Professor  
Division of Medicinal and Natural Products Chemistry  
Department of Pharmaceutical Sciences & Experimental Therapeutics
## Executive Leadership Board

<table>
<thead>
<tr>
<th>Name</th>
<th>Title &amp; Position</th>
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</thead>
<tbody>
<tr>
<td>Thomas Veale, MBA, Chair</td>
<td>President, Tri Star Risk Management</td>
</tr>
<tr>
<td>Paul Abramowitz, BSPh, PharmD</td>
<td>Executive Vice President and CEO, American Society of Health-System Pharmacists (ASHP)</td>
</tr>
<tr>
<td>Gary Albers, BSPh</td>
<td>President and CEO, CarePro Health Services</td>
</tr>
<tr>
<td>Todd Christiansen, BSPh, MBA</td>
<td>Partner and Healthcare Industry Leader, IBM Global Services</td>
</tr>
<tr>
<td>Robert Egeland, BSPh</td>
<td>Vice President, Pharmacy Operations, Hy-Vee Inc.</td>
</tr>
<tr>
<td>Linda Griffey, BSPh, JD</td>
<td>Partner, O'Melveny &amp; Myers LLP</td>
</tr>
<tr>
<td>Kerry Hartauer, BSPh, PhD</td>
<td>Director, Lilly Research Laboratories, Eli Lilly and Company</td>
</tr>
<tr>
<td>Richard Hartig, BSPh, MBA</td>
<td>Chief Executive Officer, Hartig Drug Company</td>
</tr>
<tr>
<td>Dennis Helling, BSPh, PharmD</td>
<td>Executive Director, Pharmacy Operations and Therapeutics, Kaiser Permanente, Colorado Region</td>
</tr>
<tr>
<td>George Hiller, BBA, MBA</td>
<td>Owner, Hiller &amp; Associates</td>
</tr>
<tr>
<td>Thomas J. Johnsrud, BSPh</td>
<td>President, NuCara Management Group Inc.</td>
</tr>
<tr>
<td>Randy Juhl, BSPh, MS, PhD</td>
<td>Vice Chancellor, University of Pittsburgh</td>
</tr>
<tr>
<td>Patrick Keefe, BSPh, MBA</td>
<td>Former Executive Vice President &amp; COO, Omnicare Inc.; Owner, MMD Professional Services</td>
</tr>
<tr>
<td>Miekeleen Koerth, BSPh</td>
<td>Founder and CEO, MDK Consulting LLC</td>
</tr>
<tr>
<td>Donald Letendre, BSPh, PharmD</td>
<td>Dean and Professor of the University of Iowa College of Pharmacy</td>
</tr>
<tr>
<td>David Maher, BSPh</td>
<td>Former Vice Chairman and COO, American Stores</td>
</tr>
<tr>
<td>Edward Maier, BSPh</td>
<td>President and Registered Pharmacist, Maier Family Pharmacy P.C.</td>
</tr>
<tr>
<td>Stephen Mullenix, BSPh</td>
<td>Senior Vice President, Communications &amp; Industry Relations, National Council of Prescription Drug Programs</td>
</tr>
<tr>
<td>Matthew Osterhaus, BSPh</td>
<td>Owner, Osterhaus Pharmacy Inc.</td>
</tr>
</tbody>
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- Leadership
- New Faculty
- Executive Leadership Board
James Otterbeck, BBA, MBA  
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President & CSO, SciDose LLC

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Tom Temple Consulting

Jonas Wang, BSPh, PhD  
Partner, Sycamore Ventures

Susan Winckler, BSPh, JD  
President and CEO, Food and Drug Law Institute
College leads peers in pharmacy practice lab use

In preparing for careers as patient-oriented healthcare providers working as part of a multiprofessional team, College of Pharmacy students use a pharmacy practice lab to learn the latest techniques found in pharmacy practice. The University of Iowa was one of the earliest adopters of this integrated practice lab.

Since 2000, the practice lab has provided UI students in the first three years of the doctor of pharmacy program with real and simulated practice experiences in a technologically advanced licensed pharmacy on the second floor of the College of Pharmacy Building. Students learn to prepare compounds and use blood pressure monitors and other equipment, as well as practice counseling "patients"—instructors and standardized patient actors—on the use of medications and healthcare equipment, plus how to manage their lifestyle and diet.

The hands-on learning parallels topics in their other courses and helps students keep pace with changes in real-world pharmacy environments. For example, patient counseling is included in practice lab sessions during the same semester first-year pharmacy students cover patient communication in other courses. And several years ago when immunizations became a routine service offered in pharmacies, not just in physicians' offices, the lab added equipment so students could practice and master their injection skills before entering the work force.

"We're constantly evolving practice lab courses, asking when are we teaching a basic skill and does it need to be in a different part of the six semesters of the lab? If anything in the curriculum changes, it has a domino effect on us," says lab director Jeff Reist, '82 BSPh, PharmD.

The practice lab sees 324 students each semester. The active learning exercises developed by UI lab instructors Reist, Mary Starry, '80 BSPh, PharmD, and Michelle Fravel, '06 PharmD, clinical assistant professors of pharmacy practice and science, are widely respected and copied by practice lab instructors around the country.

Because the UI is a model for other pharmacy schools, the three instructors are drafting an innovative, Web-based lab manual. When complete, the manual will be available to help pharmacy schools establish a practice lab or further develop an existing lab. While more pharmacy schools are moving to the integrated lab model, which encourages students to combine knowledge from a variety of courses in a practice-like setting, other schools continue with separate lab courses associated with individual didactic courses.

"The integrated pharmacy practice lab has helped to make the College of Pharmacy a top-20 pharmacy school," Starry says, referring to U.S. News & World Report's list of the nation's graduate programs and colleges that ranks the UI College of Pharmacy 17th among peer institutions.
Class of 2012

Kaitlyn Adams*  Ashley Hildebrand  Bao An Pham
Bryan Ajuluchukwu  Chelsey Hogan  Nhi Pham
Elizabeth Amelon  Emily Israel*  Bryan Phillips
Matthew Arnold*  Clint Iive  Daniel Piernese
Christina Banks  Jessica Jackson  Cady Ploes*  Rachel Poppen
Lisa Beers*  Monica Jandura  John Powers
Darcy Bennett  Diana Karlow*  Nicole Rabs
Andrew Berg  Emily Keene  Lacey Roach
Danielle Boeding  Karen Kepler  Kevin Roeder*
Alphonsus Brady  Grace Kim*  Marci Rueter
Tiffany Brasham  Audrey Kostzewa*  Carrie Sayre***
Stacy Buettel*  Emma Kraayenbrink  Chelsea Schorg**
Sarah Calhoun*  Kathryn Krei  Robbie Schwenker
Esther Chung*  Molly Laaker  Phoebe Sebhatu
Sara Colling  Kaili Ledel  Whitney Slinker
Maranda Connop**  Heejin Lee  Sarah Sougstad**
Courtney Creary**  Kathryn Lee  Melissa Staats
David De Mik*  Amanda Leffler  Ann Starosta
Michael Donnelly*  Yai-leng Lin**  Nicholas Steffen
Razan El Meik  Dazhi Liu  Nicholas Stumpf**
Elysha Elson*  Stacy Livingston  Nhan Truong
Ryan Elscheid  Theresa Lower  Lam Vo
Monica Forte  Stephanie Lukas  Caltheen Wadle
Meleah Frauentholz  Hien Luong  Cucinhat Walker*
Julie Freeman  Adriane Miller  Kathleen Wallace
Britana Gadient  Chase Moore  Nathan Walliser*
Bridget Gbara  Joshua Moorehead  Andrew Washburn
Courtney Genit*  Megan Mormann*  Elizabeth Webb*
Megan Germer*  Jill Moses*  John Webb
Carolyn Gilbertson*  Ryan Muller  Amanda Wellens
Nicole Goodall*  Lindsay Murphy  Jessica Whalen**
Celeste Goodloe**  Washthin Nicodimos  Pamela Wong
Alex Hangartner***  Andrew Noda**  Xiaolin Wu
Nathan Harold**  Macklin O'Brien  Tong Xu*
Brittany Hebl  Caroline Onel  Pa Yang
Jacob Heffer  Nirav Patel**  *With Distinction
Lindsay Hendricks  Joseph Paulsen  **With High Distinction
Daniel Hernandez  Andrea Perez  ***With Highest Distinction

College leads peers in pharmacy practice lab use

Class of 2012

IDIS launches updated drug database

The quest to conquer malaria
IDIS launches updated drug database

When the UI College of Pharmacy’s Division of Drug Information Service (DDIS) launched the Iowa Drug Information Service (IDIS) 4.0 Drug Database this past summer, it marked an important step in its four-decades-plus history.

The new features streamline the interface and give subscribers easier access to vital drug information, says Kevin G. Moores, PharmD, director of DDIS and associate professor (clinical) of pharmacy practice and science. “The facilitated interface allows subscribers to search by drug, disease, and descriptor vocabularies to access detailed information about medication use for specific purposes in patient care. Advanced search functions give subscribers additional flexibility.”

The drug information service was established in 1966 by William W. Tester, the first director of the program. Hazel H. Seaba, MS, professor (clinical) and associate dean for assessment, curriculum and compliance, served as its second director.

Through the years, IDIS has been a leader in providing users with more efficient and thorough access to information. From the first paper indexes, IDIS transitioned to microfiche, CDs, and, most recently, Internet database services. In the beginning the database was shared with other Big Ten universities and later became a subscription service. Subscribers include many other colleges of pharmacy and hospital pharmacies throughout the United States and practitioners in more than 60 foreign countries.

In addition to information sharing, the division also provides customized drug information training programs for pharmacy practitioners and pharmacists representing ministries of health and other government programs around the world. The division also participates in scholarly work with the United States Pharmacopeia, the U.S. FDA Mini-Sentinel program, as well as other publishing and educational activities. Over 20 how-to videos are available to facilitate teaching with the new release (http://www.youtube.com/user/IDISVideos).

IDIS offers subscriber access to information selected from over 200 peer-reviewed journals, as well as pivotal studies and regulatory review documents from the FDA, AHRQ, National Institute for Health and Clinical Excellence, comparative effectiveness research, clinical practice guidelines, and boxed warnings in FDA-approved drug labeling. An IDIS search saves time in evaluating new medications for a formulary system, making recommendations for new drugs in practice, creating scholarly work, teaching, or anywhere drug therapy decisions are made. No other database provides such efficient access to these valuable documents in a single search.

IDIS (http://www.uiowa.edu/idis/succeed/) is a top drug information database for efficient access to primary literature and other critical information useful for drug therapy decision-making.
The quest to conquer malaria

Lawrence Fleckenstein, PharmD, professor of pharmaceutics and translational therapeutics, has focused for much of his career on malaria and other parasitic infections.

A member of the UI College of Pharmacy faculty since 1991, Fleckenstein’s current research focuses on an antimalarial combination of pyronaridine/artesunate (Pyramax) for the treatment of acute malaria. This is a joint project between Fleckenstein’s laboratory, Medicines for Malaria Venture, a non-profit based in Switzerland, and Shin Poong Pharmaceuticals, located in South Korea.

Fleckenstein, the chair of the product development team for Pyramax, says it’s been a concentrated effort that involved many people, but one that is bearing fruit. “Over the past 10 years we have done rigorous preclinical and clinical testing to evaluate the safety and efficacy of this new treatment,” he says. His team’s recent publication in the New England Journal of Medicine reported on one of three pivotal phase III clinical trials that found Pyramax is highly effective in treating acute falciparum malaria. The clinical trials, conducted at about 20 sites in Africa and Asia, resulted in the submission of a registration package and approval of the drug by the European Medicines Agency this year.

He became aware of the problems of malaria and parasitic infections while taking a required course in parasitology at University of California, San Francisco School of Pharmacy. After graduation, Fleckenstein planned to carry out research on clinical pharmacokinetics of cardiovascular and analgesic drugs. Soon after, he was recruited as a research pharmacologist at Walter Reed Army Institute of Research to conduct research on the pharmacokinetics of investigational antimalarial drugs. “I was lucky enough to work on pharmacokinetic projects with a multidisciplinary team that developed two new antimalarials,” he says. He also served on several World Health Organization advisory committees that further cemented the importance of his research.

The University of Iowa has long been a leader in tropical disease research. “There is a lot of expertise in pharmaceutical development as well as considerable expertise in tropical medicine,” he adds. "There is a tremendous need to discover and develop new treatments for infectious diseases that affect millions of people worldwide," Fleckenstein notes. "It is especially important to ensure that advances in basic and clinical science are translated into research of direct relevance to human health.”

In addition to research into antimalarial drugs, Fleckenstein is studying the design of clinical pharmacokinetic experiments, population clinical pharmacokinetics, and pharmacodynamics study design and clinical trial design; the use of traditional and population methods for PK/PD analysis; and the influence of disease factors on the pharmacokinetics of drugs.

Fleckenstein says he’s had the best of professional worlds. “I particularly like working in a multidisciplinary environment. I enjoy teaching pharmacokinetics and passionately believe it gives pharmacists a foundation to make significant contributions in the delivery of health care or advancing scientific knowledge.”
Garnering support statewide

Have you ever wondered what would happen if the voices of all the University of Iowa College of Pharmacy alumni, students, parents, and friends joined together to demonstrate support for the college? Thousands of members strong, the Pharmacy Hawkeye Caucus provides an advocacy network to garner enthusiasm and spread the news of all the exciting advancements being made by the college.

The Pharmacy Hawkeye Caucus was formed in 2012 to provide the college’s supporters with information and tools to advocate for the college on the local, state, and national levels. As one of only two pharmacy schools in the state of Iowa, and the only one with a post-graduate residency program, the UI College of Pharmacy has a significant impact statewide. As we prepare to take the next step forward, it is more important than ever to have the support of our friends in all corners of the state.

As the leader of the college, Dean Donald E. Letendre spent much of the spring and summer of 2012 on the road, sharing the message of the college with legislators and supporters. “It is an honor to travel the state, speaking to fellow Iowans and the leadership of this great state on behalf of the college. We have always held a high standard of excellence, and our students and faculty are a superb reflection of this tradition. The pharmacist’s ever-expanding role as the most accessible health care provider means that the UI College of Pharmacy has had and will continue to have an impact on communities and citizens statewide,” Letendre says.

The College of Pharmacy must rely on its statewide networks. In the coming years, the college will seek funding for a new instructional facility, where Iowa’s future pharmacists will receive a top-tier pharmacy education.

“The newest teaching techniques in pharmacy involve teamwork and collaboration that mirrors the newest practice techniques for providing optimal care, centered on the patient. A new College of Pharmacy facility will reflect these critical-thinking and practice techniques to continue Iowa’s long tradition of being a pioneer in pharmacy practice, which will in turn benefit all Iowans,” says Nathan Peterson, a pharmacy student from Thurman, Iowa.
2012 class generosity pays off quickly

It was a day to celebrate the College of Pharmacy Class of 2016, but the Class of 2012 loomed large at the annual Welcome to the Profession Ceremony in August, when two new pharmacy students were surprised with scholarships.

Long “Lane” Nguyen of Sioux City and Amaris McCann of Portland, Ore., each received a $1,000 award courtesy of recent graduates and other loyal pharmacy alumni, as well as the college and its dedicated faculty, in a funding push that had started just three months earlier.

“I named it the ‘impromptu scholarship,’” says Mack O’Brien, ’12 PharmD, class president.

Just two days before their graduation, O’Brien and his classmates had gathered in Zopf Auditorium a final time. Dean Donald E. Letendre stood before them. He called O’Brien to the front.

“As I turned to face the class, I was taken aback when the dean pulled out his wallet and handed me a crisp five-dollar bill. He challenged each of us to give five dollars or whatever we could to put toward a scholarship,” O’Brien says. “To fund this impromptu scholarship, he asked that we forgo the equivalent of a good cup of coffee or espresso and pay that money forward to the future of our profession, the incoming pharmacy students.

“People dug into their pockets, their purses, and their wallets and started heading down the aisle toward me, bills in hand,” he says.

Thanks to the generosity of the 2012 class, plus contributions from faculty, other alumni, and matching funds from the college, the result was a total of $2,000 to award.

Scholarships funded by graduating classes are not new in the College of Pharmacy. Since 2009, graduates have established endowed scholarships as their class gifts, with participating classmates each pledging $1,000 payable over four years. Typically such scholarships are first awarded several years later. The Class of 2012, however, was given an opportunity to also support the education of future pharmacists more immediately.

“This is an engaging way to introduce students to the culture of philanthropy early in their careers. Our newest students immediately realize how important their success is to our alumni.” Letendre says.
The following awards support the accomplishments of our students. These gifts, many of which are named for an individual who has made a difference in the profession of pharmacy, represent remarkable generosity on behalf of our donors. They inspire our students and benefit the patients and communities they serve in Iowa, across the nation, and around the world.

### 2011-2012 Doctor of Pharmacy Scholarships
- Seymour M. Blaug Memorial Scholarship
- Ilse Buckner Memorial Scholarship
- Burroughs-Wellcome Scholarship
- David and James Carlson Scholarship
- Jordan and Jana Cohen Doctor of Pharmacy Scholarship
- Vernon Conzemius Memorial Scholarship
- Ben M. Cooper Memorial Scholarship
- CVS Pharmacy Scholarship
- John and Margo Daniel Scholarship
- Max Eggleston Memorial Scholarship
- Alice Gates Coxon Memorial Scholarship
- Lori A. Grimes Memorial Scholarship
- Gary Hadley Scholarship
- Dick and Brenda Hartig Scholarship
- Thomas D. Hill Memorial Scholarship
- Janet Hinderliter Scholarship
- Frances T. and Charles Holub Scholarship
- Iowa Pharmacy Foundation Scholarship
- RA Kuever Scholarship
- Ernest Kyle Memorial Scholarship
- Ronald P. Madden Scholarship
- Charles J. Malecek Scholarship
- Carleton R. Mikkelsen Scholarship
- Miller-Ruegnitz Scholarship

### 2011-2012 Doctoral Student Scholarships
- Keith Guillory Pharmaceutics Graduate Fellowship
- Flanagan/Guillory/Matheson/Wurster Pharmaceutics Graduate Fellowship
- John L. Lach Memorial Scholarship

Garnering support statewide, 2012 class generosity pays off quickly.
NACDS Foundation Pharmacy Partners Scholarship
Petersen Linder Scholarship
Pharmacists Mutual Scholarship
Pharmacy Student Aid Scholarship
Quad City Area Pharmacy Association Scholarship
Sattler Family Scholarship
Schering Scholarship
Chuck and Jacqueline Schwenke Scholarship
Gordon H. Sheffield Scholarship
Shopko Scholarship
Shutt Pharmacy Scholarship
H. Curtis Snyder Award
Supervalu Pharmacies Scholarship
Wilber J. Teeters Scholarship
Teeters Scholarship and Teeters-Wahl Scholarship
John S. Thor Memorial Award (Nash)
Colonel Thomas C. Veach Class of 1952 Scholarship
Wal-Mart Scholarship
Zopf Memorial Scholarship
John D. and Bets Zuehlke Scholarship
College of Pharmacy Financial Report

The college's budget was able to be fairly maintained in FY12 given modest tuition increases and salary adjustments. Research productivity has weathered a challenging environment in national research funding. The decrease that we see in federal funding is reflected throughout the university and nation as the awards allocated in the American Recovery and Reinvestment Act (ARRA) are ending. As we look ahead, the level of state support for higher education is something that we continue to monitor carefully. Extramural grants and contracts will continue to provide challenges and opportunities for our faculty. We are moving aggressively to increase private and corporate giving to enhance program support, establish endowments to keep faculty salaries at competitive levels and providing students with scholarship and fellowship support.

College of Pharmacy Foundation Finances

The University of Iowa Foundation collects contributions on the behalf of the College of Pharmacy. These contributions come from a variety of sources including alumni, corporations, and foundations. The University of Iowa Foundation is a nonprofit IRC Sec. 501(c)(3) organization and is independent from the University of Iowa.

View the University of Iowa Foundation Financial Report (PDF)