Welcome to the Summer 2009 issue of Reellence, the magazine for graduates of the Leslie Dan Faculty of Pharmacy at the University of Toronto.

Since 1998, I have had the honour of serving as Dean of the Leslie Dan Faculty of Pharmacy. On June 30th of this year, I will step down from this position.

Over the past eleven years, the Leslie Dan Faculty of Pharmacy has changed immeasurably. We have increased enrolment, enhanced the number of instructors and researchers at the Faculty, and moved into a state-of-the-art teaching and research facility. Eleven undergraduate classes have graduated during my time here, as well as a large complement of graduate students, doctor of pharmacy students, pharmaceutical chemistry students, and international pharmacy graduate students. In all, close to 2,500 students have passed through the doors at 19 Russell Street and 144 College Street during my tenure.

I often find myself thinking about these graduates – wondering how they are doing, where they are working, and how their lives have changed.

Fortunately, every once and a while I run into a former student at an academic conference, an event organized by one of the professional associations, or in the course of my duties as Dean.

I am always pleasantly surprised to learn what these former students are up to – where they have settled, what area of pharmacy they are practicing in, and what they have already achieved, both professionally and personally.

Based on my comments in previous alumni magazines, it should come as no surprise to you that I am very excited about the future of pharmacy in Canada. As a profession, pharmacy appears to always be in flux but is now headed for even more change in the years ahead. The changes are taking advantage of (and will continue to take advantage of) the unique skills and abilities that we as pharmacists, the true medication specialists, possess. The Vision for Pharmacy, as stated by the Canadian Pharmacists Association, is to provide “optimal drug therapy outcomes for Canadians through patient-centred care.”

This requires pharmacists to participate in interprofessional interchange, be available and accessible to consult with physicians and be responsible for long-term monitoring and patient outcomes. Governments are asking us to ‘step up to the plate’ and take a greater role in the delivery of health care. The opportunity is there – let’s wholeheartedly seize it.

As I leave my post as Dean at Canada’s pre-eminent faculty of pharmacy, I am comforted by the knowledge that the profession is in good hands. The men and women who have graduated from our program in recent years have proven themselves worthy to carry the profession into the future, just as those who graduated before them have done a marvellous job of carrying our profession forward.

As I step down as Dean, the Faculty is in the process of implementing a new curriculum that addresses all qualifications required for us to provide an increased scope of practice and includes all of the keys for our profession’s future success. I leave knowing that the research currently being conducted in the laboratories is addressing some of health care’s greatest challenges head on, and contains the seeds to forever change health care not only in Canada, but all around the world. Further, I turn over the reins of the Faculty to a dedicated and proven leader in Dr. Henry Mann who will no doubt continue to lead the Leslie Dan Faculty of Pharmacy to new heights.

This issue of Reellence highlights accomplishments by current faculty members, students, and alumni at the Faculty, all with an eye toward the future and the changing nature of the health care system in Canada. This issue includes updates on faculty achievements and student events, a profile on one of Canada’s Top 40 Under 40 (hint: she’s a professor at the Faculty), an interesting piece on one of our most distinguished alumni – Bill Crothers, and a review of our annual fund campaign for the 2008-2009 fiscal year. I hope you will find these stories interesting and informative.

Finally, as I write my last column for Reellence as Dean, I wish to thank everyone who has made my time here among the most enjoyable and rewarding experiences in my life.

To the students who trusted me to teach them, helped me to understand and address their concerns as young people, and taught me as much as I taught them, I would like to say thank you.

To the staff at the Faculty who work behind the scenes to ensure that our programs are operational, our students are prepared to succeed, and our faculty members have the support they need, I would like to say thank you. Your contributions to this Faculty are immeasurable.

To the faculty members who pour all of their energy into teaching and pursuing pioneering research that will revolutionize health care in Canada, I

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Message from the Dean  
continued from page 2…

Thank you and wish you continued success. It has been a pleasure working with you and sharing your successes.

To the alumni, industry partners, and professional associations that I had the pleasure to meet and interact with during my term, thank you so much for your support.

Finally, to everyone who donated financially, or through their time and skills to teach our students, support the Faculty, or help our profession grow; I owe you my deepest thanks. Your efforts have led to the realization of the vision that we shared for this Faculty and its students.

I have been very fortunate to work with some of the most talented and passionate people around, and it has left a lasting impression on me. I can only hope that I have been able to leave a similar mark on those of you I have been lucky enough to meet, teach and/or work with. Thank you.

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Ontario Pharmacists’ Association Students’ Cup

On Saturday, March 28th, students from the Bachelor of Science in Pharmacy program competed in the inaugural Ontario Pharmacists’ Association Students’ Cup against a team from the University of Waterloo’s School of Pharmacy. Bragging rights were on the line at the Moss Park Arena, where two proud hockey teams faced off in a two-period game.

The team from Waterloo scored early in the first period to gain the lead. The raucous crowd of Waterloo supporters only got louder. That served as a wake up call for the U of T team, who scored the next three goals and shut out Waterloo the rest of the way. At the end of the game, the Leslie Dan Faculty of Pharmacy was triumphant, and the OPA Students’ Cup had a new home at 144 College Street.

After the game, everyone made their way west to the Duke of Richmond for a post-game celebration.

Congratulations to everyone who competed, attended, and organized the game and post-game mixer.
New Dean Announced

In April, Professor Henry J. Mann was announced as the next Dean of the Leslie Dan Faculty of Pharmacy, effective July 1, 2009 and ending June 30, 2014.

Professor Mann is a graduate of the University of Kentucky College of Pharmacy where he received both his Bachelor and Doctor of Pharmacy degrees and completed an American Society of Health-System Pharmacists Residency Program. He then joined the University of Minnesota College of Pharmacy where he is currently a Professor and Associate Dean for Clinical Affairs. He is a Fellow of the American Society of Health-Systems Pharmacists, the American College of Clinical Pharmacy, and the American College of Critical Care Medicine.

Professor Mann's research has focused on the application of pharmacology and pharmacotherapy principles to critically ill patients and he is the founding Director of the interdisciplinary Center for Excellence in Critical Care at the University of Minnesota. Professor Mann also founded the Partnership for Excellence in Critical Care, a national network focused on the translation of critical care research into practice.

He has extensive academic administrative experience at the University of Minnesota, having served as Associate Dean and Director of Professional and External Relations, Associate Head of Pharmacy Practice, and Director of Experiential Education. He has also had responsibility for education programs and has served on the educational policy committee at Minnesota.

Please join us in welcoming Professor Mann to the Leslie Dan Faculty of Pharmacy at the University of Toronto.

In a recent Toronto Star article, Ontario College of Pharmacists’ Professor in Pharmacy Practice Zubin Austin and recent graduate Cynthia Cho-Kee (OT8) were quoted extensively about the evolution of pharmacy education and practice. In “Pharmacists’ role in evolutionary mode,” Dr. Austin outlined the change in pharmacy education from only “focusing on the scientific side and how drugs worked to thinking about people. Now we have courses in patient psychology, on the structure and function of the health-care system, how drugs are paid for and what to do when people can’t afford to pay for their drugs.” Cynthia observed how pharmacists are “the drug experts,” taking “umpteen” pharmacology courses (in comparison with most physicians, who may only take one or two). Reflected in Cynthia and Dr. Austin’s comments were also the respect and passion they have for pharmacy and the excitement they share over the future direction of the profession.

The Leslie L. Dan Pharmacy Building continues to receive a great deal of attention from the media. As part of Toronto’s recent 175th anniversary celebration, the Toronto Star published a list of 175 reasons to love Toronto. “The giant glowing pill-shaped classroom in the Leslie Dan Faculty of Pharmacy at U of T” appeared at number 113 on that list.

Associate Professor Anna Taddio published a research paper in the March 2nd issue of Pediatrics magazine that received considerable media attention. The story was picked up by the CBC, CityNews, The Medical Post, Medscape Medical News, and CHUM radio. Dr. Taddio was the lead author for a group of researchers at The Hospital for Sick Children (SickKids), the University of Toronto, Mount Sinai Hospital and York University who collaborated on the study that revealed that sucrose analgesia (table sugar) reduces a baby’s pain response to routine care following a painful procedure. Dr. Taddio was also recently profiled on the Canadian Institutes of Health Research website for her research into infant pain. To read more, please visit http://www.cihr-irsc.gc.ca/e/38279.html.

In the January 24th edition of The Globe and Mail, Canada Research Chair in Chemical Genetics Guri Giaever was quoted extensively in “As U.S. emerges from dark age, Canada’s scientific edge fades.” In this article, a number of researchers from Canadian institutions discussed the effect of the Bush administration on U.S. research, its impact upon the Canadian research scene, and the change in American research policy promised in Barack Obama’s inaugural speech in January.

Professor Giaever noted how she decided to leave the U.S. after the National Institutes of Health, the main medical research funding agency in the U.S., saw its budget shrivel under the Bush administration. She also cited the opportunity to work at a “world-class facility” with “world-class collaborators” as reasons to move to U of T.
Students in the Bachelor of Science in Pharmacy program recently named their Teachers of the Year for the 2008-2009 academic term. They are:

- Marie Rocchi – Year 1
- Anna Taddio – Year 1
- Debra Sibbald – Year 2
- Jack Uetrecht – Year 3

Congratulations to these four instructors on being recognized by students as the best at what they do.

At the beginning of June, F. Norman Hughes Chair in Pharmacoeconomics Murray Krahn was recognized with the AFPC-Pfizer Research Career Award for 2009. This award recognizes the recipient’s contribution to pharmacy research and the influence that this individual’s research has had on pharmaceutical research at the national and international levels.

At the American Association for Pharmaceutical Scientists’ (AAPS) Annual Meeting, Professor K. Sandy Pang received the Service Award for the Pharmacokinetics, Pharmacodynamics and Drug Disposition Section (PPDM). This annual award recognized Dr. Pang for her involvement with and contribution to the PPDM Section and the AAPS. Over the years, Dr. Pang has served on the PPDM Executive Committee in a number of roles, been involved in fundraising efforts, planned conferences and student mentoring programs, and organized numerous workshops, symposia, and roundtables. She has also been influential in promoting the advancement of colleagues as AAPS fellows and encouraging the participation of students as members of standing committees.

Chair Renewed

In April, Professor Ping Lee’s GlaxoSmithKline Chair in Pharmaceutics and Drug Delivery was renewed for a five-year term. Dr. Lee’s research focuses on drug delivery, including polymers that can be used to enhance drug solubility and control the rate at which drugs are released in the body. By molecularly dispersing poorly soluble drugs in a polymer, Dr. Lee has discovered that the drugs are absorbed better by the body, which could result in lower drug doses in each capsule and reduced dosages to achieve desired therapy.

Commercialization of Research

Associate Professor Christine Allen and Professor Micheline Piquette-Miller recently signed a licensing and development agreement with Prollenium Medical Technologies, Inc. The agreement focuses on the commercialization of a new dermal filler based on technology created in the labs of Dr. Allen and Dr. Piquette-Miller. The injectable gel technology PoLi developed for drug delivery is biocompatible, biodegradable, and the composition can be optimized for dermal filler application. In the press release announcing this agreement, Prollenium noted the Leslie Dan Faculty of Pharmacy’s “formidable pharmaceutical research facilities which have long been recognized for some of the most dramatic and important breakthroughs in pharma science.” Based on the excitement surrounding this partnership, the groundbreaking work being developed in Dr. Allen and Dr. Piquette-Miller’s laboratories will likely revolutionize the dermal filler market.
**Student News**

**Undergraduate Student Awards Night**

On March 30th, the Undergraduate Pharmacy Society invited students, faculty and staff to the OPA Lecture Hall for Awards Night 2009. Hosted by UPS Vice-President Christine Truong, the event celebrated student achievement, participation, and athletic accomplishment.

The Leslie Dan Faculty of Pharmacy at the University of Toronto has a long tradition of student involvement in academic, athletic and extracurricular activities, and the UPS Awards Night helps showcase these pursuits. The fact that 177 awards were handed out as part of Awards Night is a testament to this involvement.

Congratulations to all of this year’s award recipients.

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**Graduate Research in Progress**

On April 29th, the M.Sc. and Ph.D. students in the Graduate Department of Pharmaceutical Sciences staged their annual Graduate Research in Progress (GRIP) symposium. Graduate students from all branches of the graduate program presented their research findings in oral and poster presentations, highlighting the incredible breadth and diversity of research currently being undertaken at the Faculty.

The Keynote Address was delivered by Dr. David Henry, President and CEO of the Institute for Clinical Evaluative Sciences (ICES). In “Informing the public about new medications: the key role of the media,” Dr. Henry discussed the responsibility of the media to deliver all the facts in their reporting as consumers/patients are increasingly influenced in their health care decisions by what they read and see about treatments in the media.

At the end of the day, six awards for best oral and best poster presentations for basic science and clinical, social and administrative pharmacy were awarded to deserving students.

Congratulations to everyone who helped make this year’s GRIP so successful.
International Pharmacy Graduate Program Graduation Ceremony

On Wednesday, February 18th, students in the International Pharmacy Graduate (IPG) program participated in a graduation ceremony. The IPG program is a unique bridging program that prepares internationally-educated pharmacists to practice in Canada. The program is designed to bridge the knowledge and experience that foreign-trained pharmacists have acquired outside of Canada with the North American pharmaceutical care model. Pulling from the Faculty’s undergraduate program, the program reinforces the education that participants have acquired internationally, and teaches participants the skills and knowledge required to succeed in Canadian practice. The IPG program is held as the model bridging program in Ontario, with almost 800 graduates since 2001 and a 92% success rate in writing licensing exams.

To mark the occasion, a number of key internal and external stakeholders participated in the event, including Dean Wayne Hindmarsh, the Honourable Michael Chan (Minister of Citizenship and Immigration for Ontario), Della Croteau (Deputy Registrar/Director of Professional Development for the Ontario College of Pharmacists), Maria Bystrin (Director, Continuous Professional Development), and Tim Mickleborough (Acting Manager, IPG).

After the ceremony, a reception was held in the Apotex Atrium. Congratulations to the 180 most recent graduates of this model bridging program.

Pharmacy Arts Night

On April 3rd, students in the Bachelor of Science in Pharmacy program took over the Music Room at Hart House to stage the annual Pharmacy Arts Night. The evening was filled with musical performances from students in all years of the undergraduate program, which was punctuated by numerous pieces of artwork, photography, and poetry on display. In between performances, students had an opportunity to do some impromptu studying as part of a trivia contest giveaway, proving once and for all how important it is to study and be armed with a response to the question of what is the difference between crack and cocaine?
Class of 8T3 Reunion

On November 8, 2008 the Class of 1983 and their guests gathered on the top of the Rexall PharmaPlus Lecture Hall at the Leslie Dan Faculty of Pharmacy to celebrate the twenty-fifth anniversary of their graduation. The class was treated to a tour of the building by two distinguished guides, Dean Wayne Hindmarsh and Professor Emeritus Graham Nairn, followed by a cocktail reception.

The Class of 1983 has been active both professionally and personally since graduation. Some have become pharmacy owners: Ray Chan is a partner in two pharmacies in Brantford. Denise O’Hanian works in Dell Pharmacy (the pharmacy that her father started). Pete Yurek is at Yurek Pharmacy. Chris Oliveira is the owner of Springdale Pharmacy in Brampton. Jane Mulvihill is part-owner of Mulvihill Drug Mart which has four locations. Gail Dulmage (née Hylton) was owner of Wellington Pharmacy which she recently sold. Jim Turbett owns Medical Arts Pharmacy in Owen Sound.

Others pursued careers in hospital pharmacy. Dolores Iaboni (née Chiarelli) is a NICU clinical pharmacist at Sunnybrook. Tom Wan works at Toronto General Hospital in the outpatient pharmacy. Laura Gleason (née Serre) works at Parkwood Hospital in London.

Others ventured in academia: Dianne Azzarello is lecturer at the Leslie Dan Faculty of Pharmacy and President of Market Access Strategic Regulatory Services Inc. in Markham Ontario. Jana Bajcar (née Lazor) is a Health Service Research in the Department of Pharmacy and Primary Care Research Unit at Sunnybrook Health Sciences Centre and an Associate Professor at the Leslie Dan Faculty of Pharmacy and the Department of Family & Community Medicine at the University of Toronto. Lalitha Raman-Wilms is Associate Professor and Director of the Division of Pharmacy Practice at the University of Toronto. Karen Riley is Associate Professor for the University of Florida’s Pharm.D. program and lab instructor at Wayne State University in Detroit.

The class of 1983 has athletes as well. Denise O’Hanian runs half marathons. Rosemary Polczer competes in triathlons and Linda Brafield runs 30 km races. Dave Gleason’s team beat Ken Burns’ Pharmacy North Hockey Team.

After the tour and reception, the Class of 1983 continued on to the Toronto Hilton for dinner and a reception in the Governor General’s Suite.

Planning a Reunion?

Is your class celebrating a milestone this year? Would you just like to get together as a class at some point over the next twelve months to catch up and remember your time together?

If so, please contact Miriam Stephan at miriam.stephan@utoronto.ca or 416-946-3985. Miriam will help you plan your event, get in touch with classmates, and can arrange for tours of the Leslie L. Dan Pharmacy Building for those events taking place in Toronto.

If you are having a reunion, don’t forget to let Reconnection know. We’d be happy to include your event in our Upcoming Events section, and would love to include a brief story about your class in a forthcoming issue.
Padding the Résumé

Before April 7, 2009, Bill Crothers (6T3) already had an impressive résumé—pharmacy owner, Canadian record holder, Olympic Silver medalist, school board chair, and board member of several charitable organizations. He even had a secondary school named after him. However, he had never had a job interview until he applied to become a member of the University of Toronto’s Governing Council.

“I never, ever applied for a job,” notes Bill “I had always been offered jobs.” He got his first job delivering papers because a friend was giving up the route and offered him the opportunity to take it over. A few years later, another friend was leaving his delivery job at a pharmacy and set Bill up as his replacement. Then, when Bill graduated from the Faculty of Pharmacy at the University of Toronto, he was offered a job working at a pharmacy in Markham for the owner of the pharmacy he worked at in high school. The closest he had ever come to filling out a job application was when he ran for school board trustee in York Region.

So when it came time to apply to become a Governor at U of T, Bill was in unfamiliar territory. The intensive process involved completing a detailed application, securing signatures from ten U of T graduates, providing three letters of support, and traversing through a daunting interview process. After navigating through these waters, Bill successfully emerged from his first application process to be named as one of two new Alumni Governors for the University beginning this July.

Established by the University of Toronto Act, 1971, the Governing Council oversees the academic, business and student affairs of the University. It is composed of 50 members—25 members from within the internal University community (including administrative staff, teaching staff, and students), and 25 members external to the University (including alumni and Lieutenant-Governor-in-Council appointees). Bill’s election as Governor marks the first time a pharmacy alumnus has participated on the Governing Council.

The decisions made by the Governing Council have an impact on the daily life of members of the university community, and include the approval of academic programs, budgets, capital expansion, employment policies, fundraising, research policies, student life, and tuition fees, among many other items. Members oversee the management of the University and ensure that the decisions that are made by the Council are in the best long-term interests of the University.

The drive and determination Bill has shown throughout his careers in pharmacy, education, and athletics have positioned him for success as a Governor. While completing his Pharmacy degree, he would balance studying with participating in intramural activities and competitive athletic pursuits. For example, it was not uncommon for Bill to fly to New York after labs on a Friday, compete that night and the next day in track events, and then fly back on Sunday to study or participate in class-related events.

Likewise, while working as a pharmacist in Markham, Bill trained for the 1964 Olympics in Tokyo, where he would go on to win a Silver medal in the half-mile.

The same determination and drive have served Bill well as a Trustee with the York Region District School Board for the past 20 years (15 of which were spent as Chair). The high regard his community has for Bill was recently reflected in the establishment of a new school named in his honour. The Bill Crothers Secondary School in Markham offers students an inclusive, character-focused learning environment that links excellence in education and athletics with a commitment to healthy, active living for all students.

In becoming a Governor at the University of Toronto, Bill adds one more line to a remarkable résumé he has seldom had occasion to use. Not bad for someone who had never even been interviewed for a job before.
In 1998, Dr. Wayne Hindmarsh joined the University of Toronto’s Faculty of Pharmacy as Dean. Before he steps down on June 30th, Excellence sat down with Dean Hindmarsh and asked him some questions about the last eleven years and the future of the Faculty and the profession.

What is your background?
I come from the prairies – public school in Manitoba, high school in Moose Jaw, Saskatchewan. I completed my Bachelor of Science in Pharmacy and Master of Science at the University of Saskatchewan, and my Ph.D. at the University of Alberta. After completing my doctorate, I spent some time working as a Forensic Toxicologist with the RCMP before becoming a faculty member at the University of Saskatchewan. I was Dean at the University of Manitoba from 1992-1998.

How did you decide to get into pharmacy?
It was not until the 12th grade that I made the decision. I was discussing career options with some other students at a banquet one evening and pharmacy came up as a possibility. I was not able to afford to go to University after grade 12 so I worked for a year in a pharmacy in Moose Jaw to pay for my first year tuition and living expenses (which was fairly cheap in those days). I graduated from Pharmacy with a debt of $400.00.

What were your expectations when you decided to accept the position of Dean at the Faculty of Pharmacy (as it then was known) at the University of Toronto?
I knew that the University of Toronto’s Faculty of Pharmacy had the potential to be the greatest school of pharmacy in Canada. The undergraduate curriculum was solid and there were a number of excellent faculty members. During the interview process I was told there might be the possibility of a new building and opportunity for growth. I was somewhat overwhelmed with things when I arrived, but knew we could build on the excellent base that the former Dean had left.

What do you feel are your greatest accomplishments at the Faculty?
I don’t think the accomplishments are mine but rather ‘ours’. So many people provided support for the growth of the Faculty that I can’t take credit alone when it was truly a group effort. The construction of a new home for the Faculty with all of the teaching and research amenities was a major accomplishment and required the work of everyone at the Faculty. So too was the expansion of the undergraduate and graduate programs to their current sizes. I am so pleased we were able to bring so many incredible new faculty members into the fold, which has allowed us to build up our research program considerably. Similarly, the recent introduction of the Continuous Professional Development and International Pharmacy Graduate programs should be a great source of pride for our Faculty. That we accomplished all of these things in such a short period of time is truly a testament to the people who work at the Faculty and those individuals and groups outside the Faculty who have supported us in these endeavours. We have a lot to be proud of.

In 1998, a fresh faced Wayne Hindmarsh is appointed Dean of the University of Toronto’s Faculty of Pharmacy.

Dean Hindmarsh and wife Lois in the Dean’s office at 19 Russell Street.

Dean Hindmarsh is joined by Anna and Leslie Dan at the April 28, 2003 groundbreaking ceremony.
What was the biggest obstacle you had to overcome here?

When I arrived, the Faculty enjoyed a modest level of recognition within the University and pharmacy communities. This, of course, was undeserved. To get where we needed to be, I knew we had to increase our profile and enhance our reputation.

How do you hope to be remembered at the Faculty?

While I didn’t come here looking to build a personal legacy, I hope that I will be remembered for some small contributions I made to the profession, the Faculty and its programs.

If there was one thing you could do again, what would it be and why?

There have been times where I wish I had been more forceful in ensuring things happened with greater speed. The structure of the University and the Faculty sometimes make it difficult to effect change at the speed it is required. However, since we should be always leaders at the University of Toronto and not playing catch up, I wish I had been able to move a number of things along at a faster pace to ensure we lived up to our mandate as leaders.

What do you wish you could have done that you weren’t able to do during your term as Dean?

I regret that I was not able to build up the Pharmacy Practice Division to what it needs to be to be competitive with the great international schools of pharmacy. We have a great nucleus in place, but we require additional instructors and researchers to help us get to where we need to be.

You’ve worked for the RCMP and with academics. What was more difficult?

Without hesitation, academia. You are working with bright, accomplished people and one has to be very secure in themselves to be effective. I am just a prairie boy who never dreamt in my wildest dreams that my career would take me to the University of Toronto. The RCMP had its own challenges – lawyers and court work.

How would you define your career?

Exciting and rewarding. One that has provided incredible opportunities. I’ve met such great people nationally and internationally. I am so fortunate to have had the experiences I’ve had.

Where do you see pharmacy in Ontario headed in the next five years? Ten years?

Pharmacists are going to be major players in health care delivery provided they ‘step up to the plate’ and deliver on the opportunities that emerge. It is truly an exciting time for the profession and hopefully the changes that we see today are just the beginning. For too long we have been viewed as businesspeople and not as the health professionals we are. Our medication knowledge is unlike that of any other health care professional and we should be ensuring the other health professions are aware of this knowledge and how it is a tremendous asset in primary care.

For the first time in my pharmacy career we have a document (the Blueprint for Pharmacy) that has been supported by all of the pharmacy organizations in Canada. As pharmacists, we are all finally ‘singing from the same song sheet’ so to speak! For too many years we were rather schizophrenic – divided into our areas of interest and not caring about the bigger picture or what other pharmacy organizations were doing. I am optimistic that pharmacists will seize on the opportunities that come our way now that we are all on the same page.
Where do you see the Faculty headed in the next five years? Ten years?
I hope to see an increase in the Pharmacy Practice research area. My successor is strong in the Critical Care and Disease State Management areas, so I am quite optimistic that we will see growth in Pharmacy Practice research. To maintain our leadership role among North American schools of pharmacy, we need more clinical research emanating from our Faculty, particularly in the Pharmacy Practice realm.

Where do you see research at the Faculty headed in the next five years? Ten years?
The research within the Faculty is first class. We have a nice mix of established researchers with highly productive labs and younger researchers in the early stages of their careers who have brought exciting new research programs to the Faculty. In a very short time, the scope of research conducted here has expanded beyond the walls of conventional pharmaceutical research with some very encouraging results for the future.

The pioneering research conducted in the Reilly, Allen/Piquette-Miller, and Kelley labs, for example, has a real and tangible opportunity to transform health care practices. In other labs, like those run by professors Angers, Hampson and Heerklotz, fundamental science discoveries are being made that will provide the building blocks for future applied science research. In the Social, Clinical and Administrative Pharmaceutical Sciences Division, the research being performed by investigators like professors Krahn, Köhler, Grootendorst and Thompson is influencing social policies around the world. The work of Drs. Austin and Taddio in the Pharmacy Practice field is changing the way pharmacists and health care professionals work.

I could go on and on about the research conducted in each of the labs here, and have not left others off this brief list because their research is not first class, but you wouldn’t have enough space in this magazine to include everyone at the Faculty currently engaged in groundbreaking research.

I cannot, however, fail to mention the graduate students at the Faculty, who continually come forward with exciting new theories and projects that will propel pharmaceutical sciences research forward in the coming years.

It is an exciting time for research in the pharmaceutical sciences. I am eager to see where this research takes us in the next 5-10 years.

What will you remember most about your time at the Leslie Dan Faculty of Pharmacy?
There are so many wonderful memories that it’s difficult to choose. Getting the go ahead for a new building is something I will always remember. I did not realize all the work that this would involve, but in the end it was more than worth it. Being able to hire world class faculty members and seeing their success in securing research grants, obtaining prestigious awards, and graduating excellent new Ph.D’s has really put Pharmacy on the radar screen internationally and raised our profile at the University of Toronto. It has been an incredible eleven years – I will cherish all of my time here.

After you step down as Dean, what do you plan to do?
First, I will take an administrative leave and explore the options available to me within the pharmacy world. There are a number of things that I might do, but I will take the first six months to consider my next step. I also hope to travel, read, sleep in a little, and go for runs daily (when the weather permits).
Any words of wisdom for the new Dean?

I wish Henry Mann all the best. He is taking over the reins at an exciting time for the pharmacy profession in Ontario and Canada, and I know he is the right person to lead the Faculty forward to meet any challenges that lay ahead. All I can offer by way of advice is to always be available to students, faculty, staff, and alumni who have the most amazing contributions to make.

What will you miss most about being Dean at the Faculty?

There are many things I will miss and a number of things I will not miss. I will certainly miss my regular contact with the student leadership and being ‘in the loop’ on all the exciting things going on within the University. I won’t miss all of the meetings, some of which felt like they lasted a week or longer.

What are some of the things you’ll remember most about the students here?

Some students I will remember as being a bit of a challenge. Fortunately those students were the minority. Speaking generally about our students, they possess strong leadership skills, a passion for pharmacy, and many qualities that will make them tremendously successful as professionals. Over the course of the last eleven years, I have enjoyed the many thoughtful discussions I’ve had with them about the future of Pharmacy and their role in leading the profession forward. I will also remember the great hockey team we had!

Any final words for the students, staff and faculty here?

To the students, I encourage you to continue to be leaders in Pharmacy. You are all very special and have a wonderful opportunity to make the world a better place.

For faculty and staff, remember why we are here – it is for the students. They deserve the best that we can offer. Continue to do all of the great things that you are doing.

To everyone at the Faculty – students, faculty, and staff alike – thank you for allowing me to be part of your lives for the past eleven years. I hope you feel, as I do, that we have taken many positive steps forward as a Faculty over this time. I cannot thank you enough for entrusting me to lead this Faculty forward, and for working with me to ensure that we realized our potential as students, educators, researchers, and professionals.

To celebrate Dean Hindmarsh’s final year as Dean, funds raised at the annual golf tournament in 2008 were designated to establish the K. Wayne Hindmarsh Award of Excellence. Participants in the tournament were given wine with this label affixed.

Dean Hindmarsh proudly stands in front of the Leslie L. Dan Pharmacy Building.

Dean Hindmarsh on top of the small lecture pod, Spring 2009.

At the 2009 Graduate Research in Progress symposium, Dean Hindmarsh shares a laugh with Leslie Dan and David White, Assistant Dean, Advancement.
Shana Kelley never planned to be a scientist. As a high school student, she thought about becoming a lawyer, a politician, or a journalist, and entered university as a business major, before quickly discovering that she didn’t like the course material.

It was in speaking with her freshman advisor that her academic career took a turn. Knowing that she wasn’t happy as a business major, her advisor found her high school transcripts and noticed that she’d always done well in the sciences, and suggested that she might consider a career in medicine. As “blood makes me queasy,” Shana wasn’t convinced. Still, she was persuaded to take a chemistry course, just to see if she liked it. She did. And she was good at it.

Now, less than twenty years later, Dr. Shana Kelley is a Professor at the Leslie Dan Faculty of Pharmacy and was recently recognized by The Globe and Mail as one of Canada’s Top 40 Under 40.

Canada’s Top 40 Under 40 recognizes individuals under 40 years of age from the private, public and not-for-profit sectors who have made a significant contribution to society. Shana received this honour this year for her groundbreaking nanotechnology research that has resulted in the development of new diagnostic technologies to detect cancer and infectious diseases in a fraction of the time and at a fraction of the cost of conventional methods.

Shana’s career in science began at Seton Hall University, where she was first exposed to university-level courses. Science was everything she was looking for but couldn’t find in business – concrete, logical, and governed by a set of rules. She enjoyed her course work and was fortunate to have outstanding advisors who took her into their research labs as an undergraduate student and gave her interesting projects to work on.

“At that point, I was hooked,” Shana notes. “Doing research in the lab and making my own discoveries got me hooked on science.”

As she neared graduation, Shana’s advisors insisted she go to graduate school, which led her to the California Institute of Technology to pursue her Ph.D. in chemistry. There she was able to work on a project that was fundamental in nature and provided discoveries in new diagnostic assays, which would become the foundation for what she does today.

Upon graduating from CalTech, she moved from chemistry into a molecular biology laboratory, incorporating an interdisciplinary nature to her research. During this time, the biotechnology company that she co-founded to commercialize her research findings enjoyed considerable success, developing the first test for the MRSA superbug and the first electronic chip for cystic fibrosis prenatal testing.

When Shana joined Boston College as a Chemistry Professor a year later, her research program continued to develop in an interdisciplinary fashion, combining elements of engineering, biology and chemistry into a single research laboratory.

“As my research program evolved, I discovered I was folding more and more disciplines together to solve the problems we were tackling,” observes Shana.

“When the time came to take the next step in our careers, my husband (Electrical and Computer Engineering Professor Ted Sargent) and I looked at a number of schools in North America. Eventually, we decided that the University of Toronto would be a great home for both of us.”

“The reason I ended up in Pharmacy is the interdisciplinary nature of the Faculty. Interdisciplinary scientists often defy conventional academic labels, and it can be difficult to know where the best place will be to grow a very diversified research program. Once I saw the kind of work being done in the Faculty, I knew I would fit right in. All of the researchers at the Faculty are so diverse in their backgrounds and what they’re doing, I knew I could do the kind of research I wanted to do here.”

“The first time I visited the Faculty, I was blown away by the building. Now that I’ve been here for three years, I still am. You can go to every lab in the building and see that every faculty
member is doing research on a very relevant problem. “The research going on here is going to have an impact – not just on science, but on all human health.”

This research includes the work being done in her own lab, where Shana is the inventor of an electronic chip designed to detect cancer and infectious diseases ten times earlier than conventional methods at stages when these diseases are most treatable. This inexpensive diagnostic tool identifies cancer markers, infectious pathogens, and DNA mutations, providing physicians with the specific knowledge to prescribe the right drugs for the effective treatment of disease.

Every kind of bacterium that makes people sick has its own DNA sequence. Currently, physicians rely on expensive and time-consuming tests to identify the causes of illness. For example, accurate diagnosis of a bacterial infection typically requires a swab to be taken, sent to a lab, and cultured for several days to determine what bacterium is present. Using Shana’s invention, a DNA sequence for the pathogen could be obtained right away, identifying the infection and outlining the proper course of treatment. Moreover, at only $10 a test, this technology produces the same results in considerably less time and at considerably less cost than current methods.

Using this microchip-based technology, physicians in a hospital, clinic, or private practice would be able to see immediately the type of infection the patient is suffering from, and prescribe the right drug to combat it. Given that the treatment of bacterial infections acquired in hospitals around the world cost over $10 billion dollars annually, a cost-effective tool that immediately and inexpensively identifies these diseases could prevent unnecessary infections and greatly reduce health care costs.

Similarly, the technology is able to identify cancer biomarkers at the earliest stage of tumour development. By providing immediate genetic profiles of the cancer, this technology allows physicians to determine which medications will (and will not) work to effectively treat the cancer. Existing tools, while effective in identifying medication treatment plans for individuals with colon and breast cancer, are expensive and have little application for most forms of cancer. A tool that identifies cancer earlier and determines whether or not a patient would respond to particular medications would save countless lives.

This technology is also capable of determining potential adverse drug reactions in patients prior to the administration of medication regimens. For example, the drug Warfarin is a blood thinner used in the prevention of strokes. Physicians currently prescribe this medication using generic algorithms. If a patient has certain sequences in their DNA, however, the drug will metabolize differently, possibly causing an overdose and resulting in a life-threatening bleeding event. Because it is too expensive at the moment, patients are not routinely tested for these DNA sequences. Using the microchip technology developed in Shana’s lab, the patient could be screened before beginning a Warfarin program, identifying whether or not s/he would be a poor responder to this particular drug. Considering that hundreds of thousands of adverse drug reactions occur each year, the introduction of a low-cost technology that can pre-screen a patient’s susceptibility to particular medications, thereby preventing these adverse events and saving valuable health care dollars, would be most welcome.

Looking back, it seems like a career in science as a researcher was always in the cards for Shana Kelley. But that might never have happened if she hadn’t had a dedicated student advisor who took an interest in the happiness of one of his charges, or the outstanding advisors Shana encountered during her studies.

As a result of these fortunate encounters, Shana is committed to providing the same kind of support and interest in her students that she had. It’s working – her students have gone on to obtain positions at leading academic institutions including MIT, Stanford and McGill, as well as the best companies in the biotechnology sector.

She also takes science out of the lab and into the community, speaking to students from preschool to high school about the endless possibilities of science. When visiting schools, she tells students about the importance of scientists in finding cures for disease, energy sources to meet the world’s growing needs, and new ways to transmit information globally.”

“Letting kids know that a career as a scientist has the same or even greater potential for impact as one in law, medicine or business is really important – they don’t get this message from society or schools.”

It’s clear that what she’s saying is true. Every day in her lab, Shana Kelley is having an impact. Five or ten years from now, the technology she’s working on today will revolutionize health care. And that, not a business degree, is what has made her one of Canada’s Top 40 Under 40.
Annual Fund Results

The past year has been one of significant challenges for many. The Canadian economy has entered a recession while the global economy is facing a crisis of confidence triggered by the worst financial meltdown since the Great Depression, fanned by sharp falls in trade, manufacturing output, and financial wealth, and intensified by steep increases in unemployment. People in all parts of the country are feeling the effects of this deepening economic crisis.

In May of 2008, with the economy showing little sign of what was ahead, the Leslie Dan Faculty of Pharmacy embarked on its annual fundraising appeal to alumni, industry, professional associations, and friends. The overall theme of the annual appeal was to “Enhance the Student Experience” by focusing on providing support for the following three areas:

• Increased Financial Assistance – With rising tuition fees and increased living expenses, the cost of a pharmacy education is now well in excess of $25,000 annually. As a result, many students struggle to pursue their studies without financial assistance. To continue to attract the best students and ensure that the most talented are never turned away because of need, increasing the size and number of scholarships and bursaries is a top priority.

• Learning Beyond the Classroom – Providing opportunities for learning and development beyond the classroom is a crucial element of the student experience at the Faculty. By providing students with funds to participate in summer internship programs in developing nations, attend international conferences and symposia, and present at a variety of seminars, conferences and student congresses, they build on the skills and knowledge acquired in the classroom and further develop their confidence and abilities.

• Student Initiatives – The Faculty will also provide funds in support of a number of student-led initiatives that are designed to expand social networks within the student body, not only within the Faculty, but University-wide. These initiatives strengthen the bonds between classmates and allow students to become involved in professional associations and activities long before graduation.

In the face of these mounting economic challenges, our alumni, industry, professional associations and friends demonstrated their continued commitment to the Faculty and have made the 2008/2009 Annual Fund appeal an overwhelming success. Funds provided by donors have been critical in allowing the Faculty to continue to provide programs and services that enhance the student experience. During the 2008/2009 Fiscal Year, your donations to the Leslie Dan Faculty of Pharmacy funded many outstanding projects and programs including:

• Six new undergraduate student awards established by alumni and industry partners. An additional 27 existing student awards received supplementary donations.

• An interdisciplinary, student-run community clinic focused on creating and providing holistic healthcare to an under-served population in downtown Toronto received valuable startup funding. The clinic, with the assistance of dedicated faculty and community mentors, allows the students to take the knowledge and skills acquired in the classroom and apply them to real-life patient settings.

• Several students were able to pursue summer internship opportunities with a number of international organizations including the World Health Organization in Geneva, Switzerland, the Centre for International Health in Cambodia, Sanigest Internacional in Costa Rica and the Katutura ART Clinic in Namibia.

• The purchase of important tools for our Resource Centre including Lexi-Comp Online, a leading web-based service for information on drug and drug interactions, diagnosis and disease management, formulary services, patient education resources and clinical support tools. The acquisition of these resources ensures that we are meeting the information needs of our students by providing access to the latest tools and most current information.

• Funding for a number of important student events including the Induction to the Profession Ceremony, Student Awards Reception and Convocation Brunch and Awards Celebration.

Thank you for supporting these important initiatives. Continuing to provide these opportunities to students in good economic times or bad is a top priority for the Faculty. Your participation in this process is essential and your continued support of these programs and projects is vital in ensuring their ongoing sustainability.
Thank You To Our Generous Supporters

The Leslie Dan Faculty of Pharmacy wishes to gratefully acknowledge the generous financial support provided by our alumni, industry, professional associations and friends over the past year. We try to ensure that our list is as accurate as possible, but should anyone have been unintentionally omitted, please accept our apologies. Please contact us at 416-946-3995 or alumni.pharmacy@utoronto.ca to correct any oversights.

May 1, 2008 to April 30, 2009

$10,000+
Apothex Inc.
Virginia Cirocco
Leslie and Anna Dan
The Estate of Philip Feldberg
Michael R. Hunter
Merck Frosst Canada Ltd.
Sandoz Canada Inc.
Wyeth Consumer Healthcare Inc.

Pharmaceutical Partners of Canada
Pharmascience Inc.
ratiopharm
Rexall
The Estate of
George O. Robertson
Mark Rosenhek
Sanofi-aventis Canada Inc.
Scotiabank
David E. Sinewitz
David Fooksun Tong

Undergraduate Pharmacy Society
The Urban Athlete
Helen M. Walton
The Estate of
Douglas C. Wingfield
Wyeth Pharmaceuticals

$5,000-$9,999
Cheryl M. Anderson
HBC Pharmacy
Sidney M. and Elaine Kadish
Jack J. Marchese
Shoppers Drug Mart/Pharmprix Life Foundation

$1,000-$4,999
Christine Allen
Aldo A. Anzil
Amgen Canada Inc.
AstraZeneca Canada
Felipe P. Battista
Canadian Generic Pharmaceuticals Association
Salina Yin-Fong Chan
Vernon K. Chiles
Nick and Angela DiPietro
Eli Lilly Canada Inc.
Federation of Chinese Canadian Professionals (Ontario)
Education Foundation
Ab and Phyllis Platt
Patricia M. Fontana
Kwok-Chak Fung
Genpharm Inc.
GlaxoSmithKline Inc.
Green Shield Canada
Hoffmann-LaRoche Limited
Geor-Ming Lee
Jean V. Macie
Manulife Financial
Lori Beth Marshall
McKesson Canada
Medical Pharmacies Group Inc.
Gilbert Meyer
Ernest J. Miatello
Daniel E. Miller
William D. Nicholson
Novopharm Limited
Ontario Pharmacists’ Association
Stephen J. Pearson
Pfizer Canada Inc.

Irving Borchiver
Carolyn and Neil Bornstein
Kristin Boychuk
Mavis I. Breckenridge
Anne M. Broeders
Fergus J. Brown
Floyd Brown
Donald R. Brunton
Janis J. Bryant
Gertrude E. Buck
Charles W.J. Bull
William J. Burgess
Michael J. Burnett
Wayne L. Burns
John H. Butler
Christine C. Caldwell
Ronald E. Campigotto
Robert G. Candido
Sharon Carmichael
Judith A. Carter
Sabatino Carusi
Omegan G. Chabursky
Roger Paul Chai
Francis Chan
Lily Chang
John D. Chapski
Ward W. Charlebois
Sally L. Charlton
Elaine and Verne Chelin
Margarita C. Chen
Brian Chute
Chung Yee Chow
Judith A. Cimino
Shou-Ben Clough
John Cobby
Nancy E. Coffey
Joe Colella
Alan R. Condren
Joey C. Cook
Karen Currie
Mary M. Davies
Sandra Dawson
Susan E. Dempster
Asmara D. Devreee-Wilson
Mary Lou T. Doran
Raymond S. Dostal
Drug Trading Company Limited
Laurie A. Dunn
Robert Dunn-dufaut
Mahlon M. and Barbara Dyer
Orest E. Dzulynsky
Arthur Epstein
Andreas Eden
Julia O. Elia-Pacitti
Martin M. Engel
Mat Ener
Patricia A. M. Euler
Anthony Evans
Mary F. Ewert
Sydney Faibish
Wayne Arthur Fair
Joseph K. Fan
Douglas A. Fatum
Rochelle Feldberg
James I. Ferguson
Alexandra Fievoli
Betty and David Findlay
Isadore Fine
Olga M. Fischer
Brian E. Footitt
David J. Foran
Antonietta Forrester
Marcia J. Frank
Murray Fullerton
Theresa Pauline Gajevic
Janina G. Galus
Christopher P. Gartley
Lynda L. Gartley
J. R. Gascoigne
Sheila Gerus
Ali Ghoreshi
David J. Glass
Syd B. Glesesk
Ben J. Golinsky
Mervin Gollom
Stuart J. Greenwood
Doreen R. Gryfe
L. Maria Gutchi
L. R. Keith Hager
Margaret E. Hall
Sandra M. Hamid
Joan A. Hannusch
Christine L. Harding
Michelle Hart
Bryan Hastie
Kirstin Hastings
Janet E. Heffer
Paul J. Heffer
Inga Hellings
Nikolaus Herberholz
Jack Heslip
Patricia Suet Wa Ho
Donald J. Hooper
Heather A. Howell
Lorraine Hull
Buu Buu Huynh
Thank You Dean Hindmarsh

Dear Dean Hindmarsh,

As I entered my first year in pharmacy this year, I could really sense that you are very well respected by all within the faculty of pharmacy. I too, have the highest regard for you. You have taken so much time and effort to lend support and encouragement to fellow faculty members, staff and students. I am very privileged to have been a student in your class this year.

Best wishes for all of your future endeavours!

Sincerely
Elizabeth Wong
1T2

Dean Hindmarsh,

The summer before our faculty building had completed construction, a few students and I asked Dean Hindmarsh if he could arrange for a space to be reserved for prayer & meditation. This would allow us to conveniently fulfill our spiritual needs while pursuing our studies. Then came the fall-the first semester in the new pharmacy building had begun-and what did we come across? A private, quiet room labelled 'Multifaith Room' just by the auditorium.

Thanks, Dean. Your thoughtfulness is well appreciated. Every time someone uses the room, a little prayer is sent your way.

Anonymous student

Dean Hindmarsh has expanded the biomolecular sciences group extensively in his term at the University of Toronto. He showed remarkable foresight in his decision to increase the breadth of the fields that Pharmacy encompasses. As a new recruit coming in under his leadership this made coming to the Faculty of Pharmacy a very exciting place for all of us to start a research career.

Dean Hindmarsh couldn't be more supportive of the new faculty and for this we are all very grateful. Moreover, hiring several new faculty in the same general fields of biotechnology, genomics and proteomics gave us a core group allowing us instant close colleagues.

We thank you Wayne, and wish you all the best as you step down as Dean.

Carolyn, Gurl, Stephane and Shana.

Committed Loyal Approachable Sense of humour
Pharmacist First Toxicologist Substance Abuse Expert
Student Focused PROFESSOR SUCCESSFUL
Leader FORMER DEAN Problem Solver Tireless Fundraiser
New Building-Raiser Hockey Team Inspiration LEGACY BUILDER
Saskatchewan Manitoba Toronto
Cosmopolitan Rural Roots

Word Cloud of Dean R. Wayne Hindmarsh, 1998-2009
With great affection, best wishes and gratitude (from Marie Rocchi)

Dear Dean Hindmarsh,

It has been a pleasure working with you during my term on student council. You always demonstrated such passion and commitment to the student body! I couldn’t think of a better person to have all those 8am meetings with throughout the years, conversed with at various conferences and functions, nor all those excellent student council turn-over dinners at the Faculty Club. I am glad to have worked with a colleague that I can call a friend. I can only hope to achieve half of the accomplishments you have made throughout your career.

Enjoy your retirement-although I’m sure you will do anything but relax!

All the best,
Alexander Vuong

Dear Wayne,

Over the years, Dean Hindmarsh has done great work for our Faculty and his presence will be dearly missed. I have had the pleasure to witness Dean Hindmarsh represent our Faculty at the Ontario College of Pharmacists, and he will always be remembered for his passion for pharmacy, his determination, and his cheerful humour. Even my parents are sad to hear that Dean Hindmarsh won’t be at my graduation! We wish you all the best!

Laura Narducci
Class of 1T0

Wayne, you’re just a high standard for future faculty, both personally and professionally. Your passion for pharmacy and your tireless drive to make it forward are qualities to be admired. Moreover, your warmth and genuine nature are the hallmarks of a true friend. I’m thankful that I’ve had the opportunity to know you and work alongside you. All the best for the future.

Laura Narducci

Dear Wayne,

During my time at the Faculty you have been much more than my “boss.” You have been a wonderful role model, an outstanding mentor, and a good friend. I will truly miss going and speaking with you everyday and I wish you and Lisa all the best in the future.

Sincerely,

David

Dear Wayne:

Thank you for recruiting me to the University of Toronto. Joining the Leslie Dan Faculty of Pharmacy was clearly the best choice and I will always appreciate your sincerity and always appreciate your sincerity and always appreciate your sincerity. I have learned a lot from you and I will definitely keep your top of mind."

Warm regards,

Suzanne Cadarette
Dr. Heiko Heerklotz, Associate Professor and Canada Research Chair in Lipid Science and Technology, leads students in grades 4 – 7 through an experiment as part of the Faculty’s involvement in the University of Toronto’s annual *Take Our Daughters and Sons to Work Day* in April.

**UPCOMING EVENTS**

**The 2009 Golf Classic**  
Wednesday, August 19th, 2009  
Angus Glen Golf Club  
Markham, ON