Our Mission

The College of Pharmacy is an institution that will create an educational environment that facilitates the integration of pharmacy scholarship in the areas of practice, research and service to effect optimal health outcomes for individuals and communities, and the advancement of the profession of pharmacy.

In striving to fulfill this mission the College is dedicated to:

• Preparing competent graduates from both undergraduate and post-graduate programs who:
  • demonstrate confidence in their abilities to take responsibility for their role in optimizing the health status of society;
  • demonstrate the practical and professional application of knowledge, skills, and attitudes;
  • are critical thinkers;
  • demonstrate professionalism in the values, ethics and attitudes reflected in their practice;
  • demonstrate skills and processes of active life-long learners.

• Ensuring that ownership and responsibility for the College’s educational outcomes are widely shared by both internal and external stakeholders:
  • Students share responsibility for their own academic and professional development;
  • Students are involved in the definition of education outcomes, curriculum development, evaluation and professional activities;
  • Faculty, staff, preceptors and students work collaboratively to achieve the mission of the Faculty;
  • All stakeholders are aware of curriculum components, research programs and governance/accountability structures, as well as the goals and outcomes achieved by each.

• Collaborating with the profession to enhance the continuing competence of pharmacy practitioners in Manitoba.

• Fostering a reciprocal relationship with graduates to advance both the education program and the development of the profession.

• Working with all stakeholders to proactively influence health care system innovation, change and reform to optimize the health status of society.

• Encouraging collaborative models of research that support the strategic direction of the College.

• Implementing transparent structures, systems and processes to manage and support ongoing change in both internal and external environments, including regular evaluation and feedback from stakeholders on the achievement of the College mission.
Message from the Dean

I have just read our annual report for 2014-2015 which has provided me with the inspiration to put my thoughts to print. There are many accomplishments and achievements in our program detailed in this year’s report.

In terms of personnel we have had a variety of changes including the retirement of Dr. Keith Simons after 40 years of service. Dr. Simons continues on with us as a Professor Emeritus and we look forward to his continuing contributions. In particular, Dr. Simons has been a formidable force in fostering research and graduate education and the Research report contained within demonstrates that there is sustained growth and much to be proud of in this area. (See story and report within). Dr. Casey Sayre came with me to the University of Manitoba as a graduate student in 2011, became a colleague serving as an assistant professor this past year and left as a friend with his Ph.D. relocating back to the United States. Ms. Janice Bailey served with us a Faculty Manager for almost 30 years and has moved on with her career. Dr. Ruby Grymonpre, Dr. Archie McNichol, and Amanda Kinnell have all joined (or rejoined the team). Many faculty received awards including Dr. Chris Louizos who finished his Pharm. D. degree, Drs. Ho (AFPC new investigator award) and Bugden (Pharmacist of the Year), and teaching awards to Drs. Vercaigne, Zelenitsky, Lakowski and Cote. Drs. Namaka and Bugden enjoyed successful research study leaves. Although small in numbers our staff is simply the best at the University of Manitoba. It is clear to me that everyone in Pharmacy is a winner one way or another.

The development of Manitoba’s first entry-to-practice Pharm. D. program is now in full swing under the direction of another award winner, Mrs. Jan Coates. The RxPreceptor Launch, an integral part of our structured practical experiential program, would not have been possible without the sustained efforts of Kelly Drummond, SPEP Coordinator. These are some highlights of our program development in 2014-2015.

In 2014-2015, we welcomed 55 new pharmacy students with the White Coat Ceremony and we all shared in the graduation achievements of the Class of 2015 over at the Brodie Center. In between we hosted a Mr. Pharmacy Pageant, the Health Minister’s Flu Shot, Graduate Awards Reception, Community Blood Pressure clinics and the first prescribing for Ambulatory Ailments Laboratory.

When I think of our student pharmacists I am proud of all they have accomplished over the past year, and I look forward to working with the next batch. Riley Love was an affable and erudite Senior Stick. The awards and honour list of our students is equally impressive. Grace Badejo’s CSPS story gives us all something to be proud of.
Message from the Dean ... cont.

Our external relations are built on a solid foundation of donors who helped establish the Class of 2004 Memorial Scholarship, continued to build the Roy Bilous Scholarship legacy and have left us with an Endowment Fund that is critical to our ongoing student needs. We have had further opportunities to interact with our alumni at Homecoming, the Alumni of Distinction Ceremony, the Manitoba Pharmacy Conference and gala, and the College of Pharmacists of Manitoba Awards Ceremony.

All our success and achievements are made possible because we are a profession with a heartfelt commitment to team work and excellence. My appreciation for your dedicated work and support of Pharmacy is unwavering.

Thank you for having me as your Dean.

Sincerely,

Neal Davies BSc.(Pharm), Ph.D., R.Ph. Dean and Professor
Message from the Associate Dean (Academic)

Lavern M. Vercaigne, Pharm.D.,
Professor and Associate Dean (Academic)

I am pleased to provide highlights of the 2014-2015 undergraduate year in the College of Pharmacy. Throughout the year, we have continued to incorporate expanded scopes of practice into the Pharmacy curriculum. In addition to injection / immunization training that have been taught since the 2012-2013 academic year, we have incorporated additional aspects of physical examinations and implemented community-based blood pressure clinics with our students. We have also included a 6 module section in our Skills Lab-3 course to incorporate ordering and interpreting laboratory values. As practicing pharmacists are now able to prescribe for ambulatory ailments, we have enhanced our coverage of these conditions in our curriculum and added opportunities for students to practice prescribing. By the time our students graduate, our goal is to have them ready to participate in the expanded scopes of practice that pharmacists are enjoying with the implementation of our pharmacy regulations. We continue to be involved in the planning and delivery of new interprofessional activities at the University and were actively involved in a new Patient Safety and Quality initiative in the last year.

This year has marked the beginning of extensive planning to submit a new proposal for a Pharm.D. program in Manitoba. Several working groups have been formed to review admissions / pre-requisite courses, a new Pharm.D. curriculum, experiential activities, interprofessional education, program evaluation, and student assessment. An advisory council has also been established to provide advice and guidance from pharmacy stakeholders that may be impacted by the change. We look forward to discussing this proposal further with you and receiving your feedback to ensure the design of a strong Pharm.D. Program proposal.

I would again like to thank the entire College and all of our partners for their support, input and dedication to pharmacy education in Manitoba. Your efforts are much appreciated. It takes a whole team with many participants to offer a strong program and we thank you for your contributions.

Lavern M. Vercaigne, BSc. Pharm, Pharm.D.,
Professor and Associate Dean (Academic)
Faculty members of the College of Pharmacy have obtained funding from both national and international granting agencies and organizations in the last year, including CIHR, NSERC, Public Health Association of Canada, Prostate Cancer Canada, Research Manitoba, Manitoba Health and Healthy Living, University of Manitoba, and the pharmaceutical and nutraceutical industry. Total funding received between July 2014 to June 2015 exceeded over $2 million dollars. Some major highlights of the funding received are a CIHR Operating Grant to Dr. Emmanuel Ho, and two NSERC Discovery Grants to Drs. Emmanuel Ho and Ted Lakowski, respectively.

Once again faculty members within the College have maintained consistent productivity in terms of research publications. We have published 63 peer-reviewed research articles, book or book chapters over the past year. We have also published or presented 97 conference abstracts or invited presentations at both national and international conferences.

Faculty members in the College have also been recognized for their leadership and productivity at various national conferences, including an AFPC New Investigator Research Award to Dr. Emmanuel Ho and the CSPS Award of Leadership in Canadian Pharmaceutical Sciences to Dean Neal.
Message from the Associate Dean (Research)...

Davies. Dr. Keith Simons was awarded the prestigious title of Professor Emeritus for his sustained academic excellence over his stellar career and an honourary Lifetime Memberships to the College of Pharmacists of Manitoba and AFPC in recognition for his outstanding contributions to the profession of Pharmacy.

The College has hosted an undergraduate summer research program for years, and this year there are 18 undergraduate students working in various research laboratories in our Pharmacy building. They include students from our Pharmacy program, as well as other units at the University of Manitoba and international students from Brazil with the Science Without Borders program.

Various areas at the Apotex Centre have been modified, updated and renovated to accommodate increased research activities or office space needs. They include new laboratory spaces on the third floor and office/laboratory spaces in the subterranean underbuilding. Also individual researchers and the College spent approximately $250,000 in new research equipment additions over the past year.

In conclusion, I am very proud of the research achievements in the College of Pharmacy for this past year, and looking forward to seeing further growth and successes in research capacity and activity in the future. I also want to thank all faculty, students, staff and alumni for their collective contribution and support in enhancing the pharmacy and pharmaceutical research within the College of Pharmacy.

Xiaochen Gu
Acting Associate Dean (Research)
Dean
Neal Davies, B.Sc. (Pharm.) (Alberta), Ph.D. (Alberta)

Associate Dean (Academic)
Lavern M. Vercaigne, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Toronto)

Associate Dean (Research)
Yuwen Gong, B.M. (Beijing), M.Sc., (China), Ph.D. (Manitoba): on leave Feb 15, 2015
Xiaochen Gu, B.Sc. (Pharm.) (China), M.Sc. (China), Ph.D. (China): acting effective Feb 16, 2015

Professors
Frank Burczynski, B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Ph.D. (Manitoba)
David Collins, Dip. Pharm. (NZ), M.Sc. (Minnesota), Ph.D. (Minnesota)
Neal Davies, B.Sc. (Pharm.) (Alberta), Ph.D. (Alberta)
Yuwen Gong, B.M. (Beijing), M.Sc., (China), Ph.D. (Manitoba)
Ruby Grymonpre, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Minnesota)
Xiaochen Gu, B.Sc. (Pharm.) (China), M.Sc. (China), Ph.D. (China)
Brian Hasinoff, B.Sc. (Hons.) (Alberta), Ph.D. (Alberta)
Archibald McNicol, B.Sc. (Hons) (Glasgow), Ph.D (Glasgow) Effective October 15, 2015
Lvern M. Vercaigne, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Toronto)
Sheryl Zelenitsky, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Buffalo)

Associate Professors
Hope Anderson, B.Sc. (Manitoba), Ph.D. (Manitoba)
Shawn Bugden, B.Sc. (Hons.) (Manitoba), B.Sc. (Pharm) (Manitoba), M.Sc. (Manitoba), M.Sc. (Oxford), Pharm.D. (Washington)
Mike Namaka, B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Ph.D. (Manitoba)
Silvia Alessi-Severini, B.Sc. (Pharm.) (Parma), Ph.D. (Alberta)

Assistant Professors
Jamison Falk B.Sc. (Pharm.) (Manitoba), Pharm.D. (UBC)
Emmanuel Ho, B.Sc. (Hons.) (Toronto), Ph.D. (Toronto)
Harris Iacovides, B.Sc. (Manitoba), B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Pharm.D. (Toronto)
I fan Kuo, B.Sc (Pharm) (UBC), Pharm.D. (UBC), M.Sc. (UBC) Effective August 1, 2014
Ted Lakowski, B.Sc. (Pharm.) (UBC), Ph.D. (UBC)
Christine Leong, B.Sc. (Manitoba), B.Sc. (Pharm) (Manitoba), Pharm D. (Toronto)
Casey Sayre, B.Sc. (Biology) (BYU), Pharm.D. (Idaho), PhD (Manitoba) Effective August 1, 2014, resigned June 30, 2015
Geoffrey Tranmer B.Sc. (Hons.)(Brock), Ph.D. (Guelph)
Faculty & Staff 2014-2015 ... cont.

Instructors
Dennis Cote B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Ph.D. (Manitoba)
Kelly Drummond B.Sc. (Pharm.) (Manitoba)
Drena Dunford, B.Sc. (Hons) (Waterloo), B.Sc. (Pharm.) (Toronto)
Grace Frankel, B.Sc. (Pharm.) (Manitoba), Pharm D. (Toronto)
Nancy Kleiman, B.S.P. (Sask.), MBA (Athabasca)
Christopher Louizos, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Florida)
Sheila Ng, B.Sc. (Pharm.) (Manitoba) on leave October 2014-August 2015
Sonali Purohit, B.Sc. (Pharm.) (Manitoba)

Sessional Instructors
Ronald Guse, B.Sc. (Pharm.) (Manitoba)
Shirley Treacy B.S.P. (Sask), M.Sc. (Sask.)

Director of Pharm. D. Development
Jan Coates, B.Sc. (Pharm.) (Manitoba) effective January 1, 2015

Pharmacy IPE Committee and Practical Assessment Assistant
Dana Turcotte, B.Sc. (Pharm.) (Manitoba), Ph.D. (Manitoba): effective August 1, 2015

Program Evaluation Administrators
Cheryl Kristjanson, Ph.D. (Manitoba) July1, 2014-retired August 31, 2014
Robert Renaud, Ph.D. (Manitoba)

College Administrative Staff
Janice Bailey – Faculty Manager (July 1, 2014-November 2014)
Sara Dyck, B.Es (Manitoba)— Office Assistant
Amanda Kinnell, BComm (Laurentian), CGA –Senior Financial Officer, effective November 2014
Patricia Kopp, B.Sc. (Winnipeg) – Technical Support Manager
Cheryl Lee, B.Ecol (Manitoba) – Undergraduate Program Administrator
Usha Pammi B.Sc. (Eng) (India)- Financial Office Assistant
Angela Shank, B.A.S. (Hons) (Windsor)—Administrative Assistant
Sara Smith, BA (Manitoba) – Graduate Program Administrator (returned from leave October 2014)
Sherri Vokey, MA (Queens), MLIS (Western) – Librarian

Technical Staff
Steven Birch - Computer Technician
Paola Cordova, B.Sc (Manitoba), B.Es (Manitoba)-Laboratory Technician
Chrissy Laqui, CPhT (Winnipeg)- Laboratory Technician
Daywin Patel, M.Sc (Manitoba) – Laboratory Technician
Faculty & Staff 2014-2015 (Emeritus, Clinical and External)

Dean Emeritus
John Steele, B.Sc. (Glasgow), Ph.D. (Glasgow)

Professor Emeritus
Colin Briggs, B.Pharm. (Nottingham), Ph.D. (London), FRPharmS
Keith J. Simons, B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Ph.D. (Washington) effective July 1, 2015

Assistant Professors
Bhupendrasinh Chauhan, M.Pharm. (India), PhD (India)
Albert Friesen, B.Sc. (Manitoba), M.Sc. (Manitoba), Ph.D. (Manitoba)
Kennedy Mang’era, B.Sc. (Pharm.) (Kenya), M.Sc. (Belgium), Ph.D. (Belgium)
Alberto Severini, MD. (Parma)

Clinical Professor
Robert Ariano, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Minn.)

Clinical Associate Professor
Peter Thomson, B.Sc. (Pharm.), (UBC), Pharm.D. (Wayne State)

Clinical Assistant Professors
Alvaro Bras, B.Sc. (Chem.) (Manitoba), Ph.D. (Manitoba)
Christine Davis, B.Sc. (Manitoba), B.Sc. (Pharm.) (Manitoba), Pharm.D. (UBC)
Sheri Fandrey, B.Sc. (Pharm.) (Sask), Ph.D. (Sask)
Mark Friesen, B.Sc. (Pharm.) (Manitoba), M.Sc., (Manitoba), Pharm.D. (Toronto)
Rhonda Fusee, B.Sc. (Pharm.) (Manitoba) July 1, 2014-March 27, 2015
Kimi Guilbert, B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba)
Ronald Guse, B.Sc. (Pharm.) (Manitoba)
Nick Honcharik, B.Sc. (Pharm.) (Manitoba), Pharm.D. (SUNYAB)
Pat Honcharik, B.Sc. (Pharm.) (Manitoba), Pharm.D. (SUNYAB)
Kyle MacNair, B.Sc. (Pharm.) (Manitoba)
Brenna Shearer, B.MR (OT) (Manitoba), M.Sc. (Michigan), Ph.D. (Minnesota)
Amy Sood, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Toronto)
Rick Thurmeier, B.Sc. (Pharm.) (Manitoba)
Shirley Treacy, B.Sc.(Pharm) (Sask.), M.Sc. (Sask.)
Pat Trozzo, B.Sc. (Pharm.) (Manitoba)
Wally Watral, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Minnesota)
Lori Wazny, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Florida)
Donna Woloschuk, B.Sc. (Pharm.) (Sask.), Pharm.D. (Cincinnati)
Faculty & Staff 2014-2015 ... cont.

Adjunct Professors (internal and external)
Robert Biscontri, Accounting & Finance
Ian Corbin, University of Texas Southwestern
Sreeneeraj Kasichayanula, Bristol-Myers Squibb Co.
Carole Lavigne, National Microbiology Lab
William Leslie, Internal Medicine
Songyan Liu, Manitoba Institute of Cell Biology
Salaheddin Mahmud, Community Health Sciences
Mohammed Moghadasian, Human Nutritional Sciences
Grant Pierce, Physiology & Pathophysiology
Casey Sayre, Roseman University
Daniel Sitar, Professor Emeritus, Internal Medicine / Pharmacology
Xing Wu, Manitoba Institute of Cell Biology

Lecturers
Britt Kural, B.Sc. (Pharm.) (Manitoba)
Todd Mereniuk, B.Sc. (Pharm.) (Manitoba)
Brenda Rosenthal, B.Sc. (Pharm.) (Manitoba)
Dinah Santos, B.Sc. (Pharm.) (Manitoba), C.D.E. (Manitoba)
Danica Wasney, B.Sc. (Pharm.) (Manitoba)
Susan Lessard-Friesen, B.Sc. (Pharm.) (Manitoba)
Kim McIntosh, B.Sc. (Pharm.) (Manitoba), CACE
Sherri Vokey, MA (Queens), MLIS (Western)

Field Instructors
Cory Badger, B.Sc. (Pharm.) (Manitoba)
Krista Brown, B.Sc. (Pharm.) (Manitoba)
Lisa DeGroot, B.Sc. (Pharm.) (Manitoba)
Jennifer Fotti, B.Sc. (Pharm.) (Manitoba)
Christin Franken, B.Sc. (Pharm.) (Manitoba)
Darren Hall, B.Sc. (Pharm.) (Manitoba)
Patrick Hamilton, BSP (Saskatchewan)
Tara Hoop, B.Sc. (Pharm.) (Manitoba)
Jane Lamont, B.Sc. (Pharm.) (Manitoba)
Jennifer Lamont, B.Sc. (Pharm.) (Manitoba)
Grant Lawson, M.Sc (Pharm) (Manitoba)
Arleigh Maddison, B.Sc. (Pharm.) (Manitoba)
Scott McDougall, B.Sc. (Pharm.) (Manitoba)
Erin Ramalho, B.Sc. (Pharm.) (Manitoba)
Gerri Scott, B.Sc. (Pharm.) (Manitoba)
Faculty & Staff 2014-2015 ... cont.

Trevor Shewfelt, B.Sc. (Pharm.) (Manitoba)
Schalk Strydom, M.Sc (Pharmaceutics) (NWU)
Ashley Graham, B.Sc. (Pharm.) (Manitoba), B.Ed
Karli Jones, B.Sc. (Pharm.), ACPR
Cody Hotel, B.Sc. (Pharm.)
Mervin Pichlyk, B.Sc. (Pharm.)

Field Instructors (WISH Clinic)
Petrasko, Kristine, B.Sc. (Pharm.) (Manitoba)
Walus, Ashley, B.Sc. (Pharm.) (Manitoba)
Kathryn Peterson, B.Sc. (Pharm.) (Manitoba)
Michelle Hryciw, B.Sc. (Pharm.) (Manitoba)

Mr. Daniel Rossi and Miss Laura Newlands (left) nominated the St. Boniface Intensive Care Medical Services team as the “Pharmacy Team of the Year.” The award is being accepted by Giuseppe Aletta, Monica Wong and Dr. Rob Ariano (left to right). Ms. Kelly Drummond (right), SPEP Coordinator presented the award. Not pictured are additional team members Meghann Klowak and Travis Warner.
Faculty & Staff

New Faculty and Staff

The College of Pharmacy is pleased to announce the following new faculty and staff appointments.

Dr. Archie McNicol has joined the College of Pharmacy from the College of Dentistry. Dr. McNicol has been with the University of Manitoba since 1993 teaching pharmacology and is also the Associate Dean of Graduate Studies. We welcome his research and teaching expertise in pharmacology.

Jan Coates BSc(Pharm) 1973 has been hired as our Director of Pharm.D. Development. Jan is an award winning pharmacist who most recently served as a WRHA Regional Clinical Pharmacy Manager for pharmacists at the Victoria General Hospital, WRHA Family Medicine and Emergency Departments, and additional Primary Care and Ambulatory programs, as well as the WRHA Medication Safety and Quality programs.

Dr. Ruby Grymonpre (Class of 1988) has rejoined the College of Pharmacy as a full professor as of April 1, 2015 after a productive 10-year appointment with the Interprofessional Education Initiative at the University of Manitoba. Dr. Grymonpre will continue developing her extensive research program and assist with the development of our Pharm. D. program.
**New Faculty and Staff ...ctd**

*Dr. Dana Turcotte* graduated with a Bachelor of Science in Pharmacy from the University of Manitoba, and continued on with clinical training in a multiple sclerosis adult outpatient clinic for five years, coupled with the completion of her Ph.D. (2014, University of Manitoba). Dr. Turcotte continues to pursue interests in neurology and pain management, with a current clinical/research affiliation with outpatient neurology, working primarily with complex chronic migraine. Current research interests include investigating neurophysiological brain changes through the use of functional MRI in chronic pain situations, both pre- and post-treatment with effective analgesics.

*Amanda Kinnell* joined the College of Pharmacy as Senior Financial Officer in November 2014. Amanda is a Certified General and Certified Professional Accountant and manages finances for both the College of Nursing and Pharmacy.

**Retirements**

*Dr. Keith Simons* (Class of 1966) retired as of June 30, 2015 after 40 years of service to the University of Manitoba. He was granted Professor Emeritus status upon this occasion (pg 39)

*Pat Kopp, Technical Support Manager,* retired as of August 14, 2015 after 35 years of service. Her expertise and problem solving will be missed and we wish her the best of luck.
The following is the report on my activities during my 6-month research/study leave that extended from July 01, 2014 to December 31, 2014.

**Scholarly Activity and Research**

**Opioid Stewardship in Manitoba**

Opioid use has been increasing across Canada. The balance between appropriate use and abuse is difficult to manage in the clinical setting. Cross sectional analysis of opioid use in Manitoba may help to inform clinicians about appropriate use and allow policy makers to assess the impact of their coverage decision. The initial projects are intended to form the basis of a program of research which addresses the issue of safe use of opioids and guides clinicians on appropriate opioid stewardship. This project contains a number of sub-projects. Analysis of a number of these sub-projects was completed in the study leave and a variety of research products were produced.

- Friesen, K, Bugden S. Long Acting OPIOIDS- A CONTINUing Concern. Manitoba Pharmacy Conference (Abstract Submitted)

**Domperidone and Cardiac Risks in Parkinson’s Disease – MB Provincial Lead—Canadian Network for Observational Drug Effect Studies (CNODES)**

Preliminary pharmacoepidemiologic studies have shown an association between domperidone (>30mg day) and serious ventricular arrhythmia and sudden cardiac death particularly in those over the age of...
60. The average age of onset of Parkinson’s disease is 60 years and many patients develop gastrointestinal symptoms and dysphagia that is frequently treated with domperidone 60-80mg per day. This research project will investigate if there is a serious risk of ventricular arrhythmias and or sudden cardiac death with the use of domperidone in patients with Parkinson’s disease. Review of this issue in multiple provinces will be used to guide future regulatory policy decisions in Canada. Analysis on this project was largely completed during the study leave.

**Isotretinoin and Pregnancy Study – MB Provincial Lead - Canadian Network for Observational Drug Effect Studies (CNODES)**

Isotretinoin is the most commonly prescribed teratogenic medication used in North America. Differences exist between Canada and the US in the rigor of the program used to limit pregnancy during the use of isotretinoin. This research project will use meta-analysis of all relevant provincial databases to assess the current pregnancy outcomes in patients using isotretinoin. It is hoped that this research might guide future policy decisions by Health Canada in the regulation of isotretinoin use. Final analysis for this project was completed during the study period. A manuscript is currently in preparation.

**Medication Use in Fetal Alcohol Spectrum Disorders (FASD)**

FASD affects approximately 1 in 100 individuals and rivals autism in its prevalence. Despite this, medication use in FASD remains virtually unstudied. During the research study leave an effort was made to begin to evaluate the literature of FASD medication use with view to a future program of research related to the pharmacoepidemiology of this condition. It is also an area that could involve pharmacists to a greater degree in prevention and referral.

- Bugden S. Fetal Alcohol Spectrum Disorder (FASD): A Primer for Pharmacists. Manitoba Pharmacy Conference (Abstract Submitted)

**Citalopram/Escitalopram Cardiac Risks and Policy**

Health Canada has recently released warnings regarding the potential for citalopram and escitalopram to cause QT prolongation and sudden cardiac death. There seems to be an enhanced risk for those over the age of 65 and those on interacting medications. In the past, such warnings have not always had much impact on prescribing practices. This research project will look at the impact of the Health Cana-
Research/Study Leave Report SB... cont.

da warnings and assess the level of “inappropriate” prescribing of citalopram and escitalopram. During the research study leave all preliminary analysis was completed on the prescribing patterns and the associated interaction patterns. A submission to the Centre on Aging Symposium is planned. Outcome analysis remains to be completed for this project.

The Ethical, Statistical, & Policy Ramifications of Study Cross-over in Oncology Trials
Cross-over between treatment arms in randomized trials effectively ends the trial early and diminishes the ability of the trial to answer its intended clinical question. Cross-over is often justified on ethical grounds but the downstream ethical considerations seem to be incompletely considered in trial design and approval. The resulting process delays, rather than resolves, the ethical dilemma. Cross-over can make difficult drug approval decisions near impossible and passes uncertainty regarding the efficacy and effectiveness of new products to the broader patient population. During the study leave, a review of this issue was updated to include pCODR reviews to the end of 2014. An abstract for the 2015 CADTH Symposium was prepared.


Manitoba Pharmacist Smoking Cessation Project
This demonstration research project seeks to show the impact of pharmacist coordinated smoking cessation in a specialized population. Fifteen Manitoba pharmacies have enrolled over 100 patients currently receiving income assistance who are interested in quitting smoking. This project will measure the impact on patients (quit rates) and resources used (smoking cessation products and pharmacist time). It is hoped that this collaboration with the Manitoba Society of Pharmacists (now Pharmacists Manitoba) and the College of Pharmacists of Manitoba will demonstrate the effectiveness of pharmacists in this role and encourage future funding of pharmacists to perform this service in Manitoba. The evaluation, analysis and creation of the final report were competed during the study leave.

- Hamilton, K, Alessi-Severini, S., Friesen, K., Shearer B, Bugden, S. Reaching the Hard to Reach:
Research/Study Leave Report SB… cont.

The Manitoba Pharmacist Initiated Smoking Cessation Pilot Study: A Pharmacist Initiated Model for Smoking Cessation: Reaching the Hard to Reach. CPhA Conference (Abstract Submitted)

Zoster Burden of Disease
HZ infection arises from the reactivation of latent VZV (Varicella Zoster Virus) in sensory ganglia. The lifetime risk for developing HZ is 20-30% and rises with age to 50% by the age of 85. Complications of acute HZ can be severe. The most common complication is post-herpetic neuralgia which affects approximately 20% of patients overall, but is more frequent in patients over 80 years of age (>35%). Recent Canadian data are on the incidence of HZ infections and their health and economic burden are limited. It is important to assess the current burden of HZ illness in a typical Canadian province and to monitor the uptake of the new HZ vaccine. This project makes use of Manitoba Centre for Health Policy data to characterize the burden of disease of this condition. Dr Silvia Alessi-Severini is a partner in this project. Grant funding, background research and MCHP, HREB and HIPC approvals were obtained for this project during the study leave.

Misoprostol for Cervical Ripening
I participated in the planning of a clinical trial to evaluate the efficacy and safety of misoprostol for cervical ripening as an alternative to more expensive prostaglandin analogues. This project is expected to start sometime in 2015 and my role will be the economic evaluation of the trial. There are significant issues with stability of the suspension of misoprostol. Previous trials have assumed a 2 hour stability for the suspension. In collaboration with Dr. Ted Lakowski and his lab we have planned a stability study. The results of this study should inform the conduct in the trial.

Non-Inferiority Trials
A major focus of my teaching at the College of Pharmacy is the critical appraisal of the scientific literature. During the study leave I conducted a review of the methodology of the non-inferiority trials and responded to an invitation from CSHP Banff Seminar to present on this topic. In addition I developed an abstract for a workshop for the CADTH Symposium 2015.

- Bugden S. Pharmacists in Wonderland: The Up is Down World of Non-Inferiority Trials. The Banff Seminar, CSHP. Banff, Alberta, March 21, 2015.
- Bugden S. Non-Inferiority Complex: Gaining Confidence in the Appraisal of Non-Inferiority Trials. (Workshop) CADTH Symposium 2015, Saskatoon, Saskatchewan, April 12-14, 2015.
Other Scholarly Activities
Medications, Evidence & Decision Support (MEDS) Conference
- Together with Dr. Jamie Falk and Dr. Jeff Sisler (CPD) developed the concept and planned this first annual MEDS conference to promote rational therapeutics for frontline healthcare professionals.

RxFiles Advanced Academic Detailing Workshop – Long-term Care – September 21-23, 2014, Saskatoon, Saskatchewan
- Developed a critical appraisal workshop on antipsychotics in the elderly for this national conference.

Grant Funding
- Merck Investigator Studies Program 2014 - $75,500 for the project “Assessment of health and economic burden of herpes zoster in Manitoba: a population-based study” (Silvia Alessi-Severini, PI, Dr. Shawn Bugden, Co-investigator, University of Manitoba) AWARDED
- College of Pharmacists of Manitoba 2014 - $12,545 – Narcotic Utilization in Manitoba AWARDED

Graduate Students
Honoured all commitments to graduate students and worked extensively with graduate students during this period.
- Kevin Hamilton (Advisor) – supervision of analysis and thesis for graduation early in 2015
- Kevin Friesen (Advisor)
- Juliano Amador da Silva (Advisor)
- Olasumbo Ojo (Advisor) – started Jan 2015
- Sarita Jha (Committee Member) – oral defense during study period
- Noor Breik (Committee Member)

Teaching
Honoured existing teaching commitments during the study leave period.
- College of Medicine – Workshop in Pharmacoeconomics for Oncology Residents – August 8, 2014
Research/Study Leave Report SB... cont.

- PHRM 3430 – Natural Products – Critique of Homeopathy – September 25, 2014
- PHRM 100 – Introduction to Pharmacy – Opportunities and Responsibilities in Pharmacy Care - November 10, 2014

Training
- TIPS (Teaching Improvement Programs) – November 20-21, 2014
- Social Administrative Pharmacy Educators of Canada – meeting Oct 15-17, Montreal, Quebec

Service
Honoured some of my existing service commitments during my study leave.
Pharmacy Examining Board of Canada (PEBC)
- President
- Committee on Exams
- Finance Committee – Chair
- Evaluation Committee
- Chair of PEBC 50th Event at CPhA Conference
- Delivery of Grad Lecture to University of Manitoba Students
College of Pharmacists of Manitoba
- Chair Governance Committee
PanCanadian Oncology Drug Review
- Economics panel
CancerCare Manitoba
- Pharmacy and Therapeutics Committee
College of Pharmacy
- Graduate Studies Committee
- Program Evaluation Committee
College of Occupational Therapy
- Complaints Committee
The following is the report on my activities during my 6-month research/study leave (RSL) that extended from January 01, 2015 to July 01, 2015. The purpose of my leave was to establish international research collaboration.

**Main Research Activities:**
Note: I would like to acknowledge that my visits to Shantou and Chongqing were part of our university academic exchange programs. The established official memorandum of understanding (MOUs) between the two universities has facilitated a very productive visit to China.

Note: All invited scientific seminars discussed below are listed in detail in the below section entitled “Summary of Invited Presentations During RSL.”

**Phase I: Shantou University and Shanghai Hospital Neurology Department:**
I commenced my sabbatical in Shantou University where I participated as an invited speaker at the Symposium on Biological Psychiatry (April 17-19). I also participated in the official signing ceremony for the continuation of the Canada-China Joint Laboratory between the University of Manitoba and Shantou University that involved Dr. Patrick Choy (University of Manitoba) and the head delegates of Shantou University, China. Following the official signing ceremony, I was invited to serve as one of the Principal Investigators by Dr. Jiming Kong. The official approval of this appointment as a principal investigator (PI) to the Joint Lab is in progress with the final approval pending. During this time I also had the opportunity to network and engage with other researchers at this institution and interact with graduate students.

Following the conclusion of this scientific meeting, I went with Dr. Jiming Kong to Shanghai. In Shanghai, I met with:

- Dr. Xiaoying Bi, Director of Neurology at Shanghai Hospital. I was invited to present a research seminar at the Shanghai Hospital at Neurology Rounds. During this time I also had the opportunity to network and engage with other researchers at this institution and interact with graduate students.

- Dr. Xingshun Xu at the Institute of Neuroscience, Soochow University, Suzhou, China. At Soochow University I performed two invited scientific research presentations. During this time I also had the opportunity to network and engage with other researchers at this institution and interact with graduate students.

- Dr. Jue He who arrived in Shanghai from Shantou University. Dr. Jue He had invited me to provide a scientific research presentation to his collaborators at Soochow University. During this time I also had the opportunity to network and engage with other researchers at this institution and interact with graduate students.

**Phase II: Visit to Chongqing Third Military Medical University and Hospital**
During my stay in Chongqing I was invited by Dr. Weidong Liu, Dean of the College of Pharmacy at
the Third Military Medical University and other professors at the College of Medicine, Department of Neurology (Dr. Feng Mei & Dr. Lan Xiao) to further solidify research collaborations, complete the drafting of collaborative scientific manuscripts and share scientific training and expertise with the graduate students. During my stay, I performed 3 invited scientific research presentations. In addition, Dr. Yuewen Gong, Associate Dean (Research) from the College of Pharmacy at the University of Manitoba was also on administrative leave in China and travelled to Chongqing to facilitate discussions with Dr. Weidong Liu and Dr. Li (Director-Neuro-immunology Department) involving my appointment as an Adjunct Professor at the Faculty of Pharmacy in the Third Military Medical University in China. The official approval of this Adjunct Professorship appointment is in progress with final approval pending.

Other Research Related Activities:
- Lead Guest Editor for a Special Issue in the journal entitled: “Mediators of Inflammation”. February 2015.
- Invited attendee and presenter at the ACCESS Divisional Meeting, Janssen Ortho, Toronto, ON, Feb 9th – 12th, 2015.
- Appointed to the Medical Advisory Board Meeting for Lundbeck Pharmaceuticals: on Neurogenic Orthostatic Hypotension (NOH), Dallas Texas, June 25-26th, 2015.
- Completed Re-certification of Standard First Aid & CPR Training Level C/HCP. Canadian Red Cross, June 24th 2015.
- May 2015–August 2015: Supervisor for Karen Magsino for her undergraduate College of Pharmacy summer student research project entitled “A prospective cohort study for the stratification of patients at risk of opioid abuse”. Ms. Magsino’s summer studentship was funded by College of Pharmacy Undergraduate Summer Research Scholarship.
- Pursued recruitment discussions and evaluation of potential doctoral (Ph. D) students from Third Military Medical University in Chongqing, China.
- Attended and presented scientific research at the 9th World Congress International Brain Research Organization (IBRO) Conference in Rio de Janeiro, Brazil July 3 -12th, 2015.
- Completed Electronic Medical Records (EMR) Training with Accuro that is essential to my clinical practice sites in the pain clinic and/or the rehabilitation medical clinic. April 2015.

Summary of Research Articles Published or Accepted for Publication During my RSL:
Prenatal Inflammation-induced NF-κB Dyshomeostasis Predisposes to Conduit Artery Renin-angiotensin System Overactivity in Hypertensive Offspring. Youcai Deng, Yafei Deng, Xiaoyan He, Jianhong Chu, Jianzhi Zhou, Qi Zhang, Wei Guo, Pei Huang, Xiao Guan, Yuan Tang, Yanling Wei, Shanyu Zhao, Xingxing Zhang, Chiming Wei, Mike Namaka, Ping Yi, Jianhua Yu, Xiaohui Li. Accepted July 17th, 2015: Scientific Reports.


Summary of Research Articles Submitted During my RSL with my International Collaborators on Ongoing Collaborative Research Projects:


Summary of Published Abstracts Presented at Scientific Meetings During my RSL:


Tina Khorshid Ahmad, Claudia Cortes, Khaled Altaweel, Qingjun Huang, Jue He, Jiming Kong and Michael P. Namaka. Epigenetic regulation of brain derived neurotrophic factor (BDNF) by methyl CpG binding protein 2 (MeCP2) isoforms in an experimental autoimmune encephalomyelitis (EAE) model of multiple sclerosis (MS). 6th Annual Neuroinflammation Symposium and MB-ON endMS. April 30, 2015.

Summary of Invited Presentations During RSL:

- “Managing Neuropathic Pain”. Chongqing Third Military Medical University, Neuro-immunology Department, College of Pharmacy, China. May 13th, 2015.
- “Current Advances in Multiple Sclerosis”. Chongqing Third Military Medical University, Neuroimmunology Department, College of Pharmacy, China. May 12th, 2015.
- “Transcriptional Regulation of Brain Derived Neurotrophic Factor (BDNF) by Methyl CpG Binding Protein 2 (MeCP2): Implications in Re-myelination and/or Myelin Repair in an Animal Model of Multiple Sclerosis (MS).” Chongqing Third Military Medical University, Department of Neurology, College of Medicine - Chongqing Third Military Medical University, College of Pharmacy, China May 11th, 2015.
- “Evolution of Pharmacy Practice and the Curriculum Reform” Invited speaker at Chongqing Third Military Medical University, Neuro-immunology Department, College of Pharmacy, China. May 8th, 2015.
- “Transcriptional Regulation of Brain Derived Neurotrophic Factor (BDNF) by Methyl CpG Binding Protein 2 (MeCP2): Implications in Re-myelination and/or Myelin Repair in an Animal Model of Multiple Sclerosis (MS)”. Chongqing Third Military Medical University, College of Pharmacy, China. May 7th, 2015.
- Current Advances in Multiple Sclerosis. Institute of Neuroscience, Soochow University, Suzhou, China. April 28th, 2015.
- “Transcriptional Regulation of Brain Derived Neurotrophic Factor (BDNF) by Methyl CpG Binding Protein 2 (MeCP2): Implications in Re-myelination and/or Myelin Repair in an Animal Model of Multiple Sclerosis (MS)”. Neurology Institute, Soochow University, Suzhou, China. April 27th, 2015.
- “Transcriptional Regulation of Brain Derived Neurotrophic Factor (BDNF) by Methyl CpG Binding Protein 2 (MeCP2): Implications in Re-myelination and/or Myelin Repair in an Animal Model of Multiple Sclerosis (MS)”. Department of Neurology, Shanghai Hospital - China. April 20th, 2015.
- “Transcriptional Regulation of Brain Derived Neurotrophic Factor (BDNF) by Methyl CpG Binding Protein 2 (MeCP2): Implications in Re-myelination and/or Myelin Repair in an Animal Model of Multiple Sclerosis (MS)”. 2nd Guangdong-Canada Biological Psychiatry Symposium co-hosted by Guangdong and Shantou University Mental Health Center, China. April 18th, 2015.
Research/Study Leave Report MN... cont.

**Funding Applications Awarded During RSL as a PI:**
- URGP Grant: Entitled Targeted Epigenetic Therapeutic Intervention Strategies in an Animal Model of Multiple Sclerosis (MS). June 2015

**Funding Applications Submitted During RSL:**
- Jiming Kong (PI); Hassan Marzban, Human Anatomy and Cell Science (Co-investigator); **Michael Namaka** (Co-Investigator) College of Pharmacy; Yu Tian Wang (Co-investigator external to the University of Manitoba), University of British Columbia; Xinmin Li, University of Alberta (Co-investigator external to the University of Manitoba). SELECTIVE KNOCKDOWN OF MISFOLDED SOD1 AS A THERAPY FOR ALS. ARTHUR J. HUDSON TRANSLATIONAL TEAM GRANT PROGRAM – 2015 - Operating Team Grant.

**Funding Applications in Preparation:**
- Targeted Epigenetic Therapeutic Intervention Strategies that Promote Re-myelination and/or Myelin Repair in an Experimental Autoimmune Encephalomyelitis (EAE) Animal Model of Multiple Sclerosis (MS). Michael Namaka (PI-College of Pharmacy University of Manitoba) and Xingshun Xu (Co-investigator- Institute of Neuroscience Soochow University).
- Targeted Epigenetic Therapeutic Intervention Strategies for Attenuating Neuropathic Pain (NPP) in Animal Models of Post-Herpetic Neuralgia (PHN) and Experimental Autoimmune Encephalomyelitis (EAE)-Induced Multiple Sclerosis (MS). Michael Namaka (PI-College of Pharmacy University of Manitoba) Li-na Wang (Co-investigator) Department of Anesthesiology, First Affiliated Hospital, Soochow University; Xiao-hong Jin (Co-investigator) Department of Anesthesiology, First Affiliated Hospital, Soochow University; Xiao-wen Meng (Co-investigator),Department of Anesthesiology, First Affiliated Hospital,Soochow University.
- Neurological Damage Induced by Exposure to Prenatal Inflammatory Stimuli: Implications in White Matter Damage and Chronic Pain Development in Adulthood. Michael Namaka (PI-College of Pharmacy University of Manitoba); Xiaohui Li (Co-investigator-Third Military Medical University Chongqing, China)

**Graduate Students and Visiting Scholar Supervision:**
Research/Study Leave Report MN... cont.

During my leave I kept close contact with my Master’s graduate student. Through meetings and electronic communication, I was able to assist Ms Tina Khorshid Ahmad in the drafting of her final thesis entitled “Transcriptional regulation of BDNF by MeCP2: Implication in re-myelination and myelin repair in an animal model of MS”. Ms. Khorshid Ahmad intends to submit her thesis to the Faculty of Graduate Studies for the October 2015 graduation period. In addition, I was also involved in the supervision and guidance of collaborative research being conducted with Dr. Jiassi Li, a visiting research scholar from Shanghai Changhai Hospital at the Second Military Medical University in China. The joint project is entitled: “Exploring the Role of M1 & M2 Microglia in White Matter Damage in an Experimental Autoimmune Encephalomyelitis (EAE) Model of Multiple Sclerosis”.

Service:
During my sabbatical leave I was involved with the course coordination and teaching of most of the Applied Pathophysiology Course 46.143. I utilized my sabbatical leave from January to April 2015 to prepare several newly assigned lectures and update existing lectures in the course which included: Diabetes Type I and Type II; Hepatitis and Cirrhosis; Asthma; Chronic Obstructive Pulmonary Disease (COPD); Ulcers; Gastroesophageal Reflux Disease (GERD); Rheumatoid Arthritis (RA); Osteoarthritis (OA); Psoriasis; Epilepsy; Neuropathic Pain (NPP); Multiple Sclerosis (MS); and Parkinson’s Disease.

Conclusion and Acknowledgments
My six-month RSL has been a very productive and rewarding experience. My RSL has allowed me to develop professionally, complete the preparation and submission of several collaborative manuscripts, secure research funding for the continuation of my research program, strengthen current national and international collaborations and establish future collaborations.

I am indebted to the College of Pharmacy at the University of Manitoba for the opportunity and support provided for my RSL. A special thanks to Mrs. Claudia Cortez for her assistance with the daily operations of my neuro-immunology laboratory during my absence while on sabbatical. I would also like to thank Dr. Jiming Kong, Dr. Yuewen Gong and Dr. Patrick Choy for all their assistance with all my travel plans and research contacts during my sabbatical visit. I would also like to express special thanks to Dr. Jiming Kong (University of Manitoba), Dr. Xiaoying Bi (Shanghai Hospital), Dr. Xingshun Xu (Soochow University); Dr. Weidong Liu (Chongqing); Dr. Huang (Shantou); Dr. Hailong Li (Shanghai Hospital), Mr. Ting Zhou (Chongqing), Dr. Done (Chongqing), Dr. Lan Xiao (Chongqing) and Dr. Jue He (Shantou University) for all their assistance in arranging my travel, accommodation and speaking arrangements during my visit to China. I would also like to thank Dr. Neal Davies (Dean, College of Pharmacy, University of Manitoba) for his generous support in providing my round trip travel from Canada to China in support of my sabbatical leave. Finally, I would also like to express my sincere thanks to my wife Pamela Namaka for looking after all things at home while I pursued my academic responsibilities in China. The overwhelming support from colleagues, collaborators, friends and family were integral to the success of my RSL.
Pharm. D. Development

Project Charter

Begin Date: January 5, 2015
End Date: First class intake for proposed Pharm.D. program: Date to be Determined.

PROJECT STATEMENT:

Design a proposal for a new innovative program leading to a Professional Doctoral Degree in Pharmacy (Pharm.D.) that provides students with a strong knowledge in the pharmaceutical sciences, and a greater foundational and clinical knowledge base with more practice-oriented experience in preparation for pharmacy graduates to assume an expanded patient centered practice and/or novel pharmacist roles within the healthcare system including such areas of practice as community, primary care, ambulatory care, acute and long-term care facilities, industry, government and other specialized fields.

PROJECT BACKGROUND:

The formal training for practice of pharmacy in Canada has evolved over the past 75 years, from trade and apprenticeship courses to a professional degree program. So too, has the evolution of the complexity of the pharmacist’s role and the scope of their practice. In 2007 a Blueprint for Pharmacy Task Force was created, a collaborative partnership representing the full scope of the pharmacy profession – professional advocacy, regulatory, corporate and academic constituencies. By 2009 the highly revered Blueprint for Pharmacy document was authored and published, providing strong direction and purpose for change. The Blueprint prescribes “Our Way Forward: Optimizing drug therapy outcomes for Canadians through patient-centered care”. A concept embraced by all sectors represented.

The Association of Faculties of Pharmacy of Canada (AFPC) vigorously reacted to the recognition that current pharmacist training programs can no longer provide the volume of learning that is required for the pharmacist to respond to the challenge of the Blueprint: “the current baccalaureate professional program at Canadian pharmacy schools can no longer effectively accommodate the proposed added depth and breadth to curricular content knowledge in the pharmaceutical sciences nor provide graduates with the enhanced skills that the profession and the health care system will expect from pharmacists going forward”1. In a pivotal commitment to support this recognition, February 2010 the AFPC resolved to replace “current baccalaureate pharmacy curricula with a comprehensive doctor of pharmacy curricula of foundation knowledge in the biomedical and pharmaceutical sciences, practice skills training, and extensive clinical experiences for the first professional degree in pharmacy to ensure that graduates can enter practice to competently perform the enhanced patient care skills that will be expected of pharmacists”..... and that through a consultative process across Canada, there should be “significant effort to ensure that all pharmacy schools have a doctor of pharmacy curriculum in place by 2020”.

www.umanitoba.ca
**Project Charter ...ctd**

**PROJECT SCOPE**
The project will be led by the Project Manager and require 3 phases It is guided by:

**Principles:**
- Transparency and accountability: with and to all stakeholders
- Alignment with the direction and recommendations from organizations of influence: e.g. Blueprint for Pharmacy, NAPRA, AFPC, CCAPP, CSHP
- Evidence based
- Build on Strengths
- Sustainable; build to last and adapt
- Responsive to the health needs of Manitobans

**Work Groups:**
- representative of community and hospital pharmacists, faculty and staff, students, and key stakeholders.

**Stakeholder Consultation and Feedback:**
- University of Manitoba (UM) College of Pharmacy faculty, staff, Students and Alumni
- University of Manitoba Faculty of Health Sciences
- Professional Associations:
  - College of Pharmacists of Manitoba (CPhM)
  - Pharmacists Manitoba
  - Canadian Society of Hospital Pharmacists (CSHP)
  - Canadian Association of Chain Drug Stores (CACDS)
- Accrediting bodies:
  - Canadian Council for Accreditation of Pharmacy Programs (CCAPP)
- University Faculties: Science, Arts
- Provincial Health Regions

**Phase I:** Development of a proposal for the entry to practice doctorate (Pharm.D.) program

**Phase II:** Development of a proposal for an ‘Adaptable’ Pharm.D. program for current practicing pharmacists, and foreign trained pharmacists

**Phase III:** Implementation strategy pending approval of the proposals

**Project Proposal Leadership Team:**
**Jan Coates** *(Project Manager)*, **Dr. Neal Davies** *(Dean)*, **Dr. Lavern Vercaigne** *(Associate Dean, Academic)*
- Provides oversight to recommendations from Work Groups and decisions
- Participates in communication to Key Stakeholders
- Provide support where required
Pharm. D. Proposal Development Working Groups

To ensure all stakeholders are informed, plus institutional knowledge and expertise are preserved, 9 Working Groups have been formed to assist Jan Coates with writing the proposal that will be submitted to the University of Manitoba and, ultimately, government for approval.

**Pre-requisites and Admissions** – Chaired by Dr. Ruby Grymonpre  
Mandate: To describe the Pre-Requisite criteria, as well the Admission criteria and process that will provide the basis for the success of a well prepared student entering the PharmD program.

<table>
<thead>
<tr>
<th>Cheryl Lee – Admin Support</th>
<th>Dr. Chris Louizos</th>
<th>Dr. Christine Leong</th>
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<tbody>
<tr>
<td>Dr. Dennis Cote</td>
<td>Dr. Emmanuel Ho</td>
<td>Dr. Frank Burczynski</td>
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<tr>
<td>Nancy Kleiman</td>
<td>Dr. Rob Renaud</td>
<td>Dr. Keith Simons</td>
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</tbody>
</table>

**Curriculum** – Chaired by Dr. Lavern Vercaigne  
Mandate: To describe an innovative curriculum that will provide the depth and breadth of foundational skills and knowledge in the pharmaceutical sciences and clinical therapeutics that will enable the graduate to assume, in a diversity of settings, an expanded patient centered practice with the confidence and competence that meets the challenging healthcare and disease prevention needs of Canadian society.

<table>
<thead>
<tr>
<th>Cheryl Lee – Admin Support</th>
<th>Dr. Archie McNicol</th>
<th>Dr. Christine Leong</th>
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<tbody>
<tr>
<td>Dr. Dennis Cote</td>
<td>Drena Dunford</td>
<td>Dr. Geoff Tranmer</td>
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<tr>
<td>Nancy Kleiman</td>
<td>Dr. Grace Frankel</td>
<td>Dr. Harris Iacovides</td>
</tr>
<tr>
<td>Dr. I fan Kuo</td>
<td>Dr. Jamie Falk</td>
<td>Kelly Drummond</td>
</tr>
<tr>
<td>Dr. Shawn Bugden</td>
<td>Dr. Ted Lakowski</td>
<td>Dr. Xiaochen Gu</td>
</tr>
<tr>
<td>Dr. Peter Thomson – WRHA</td>
<td>Travis Warner – St. Boniface</td>
<td>Nick Rusnick - student</td>
</tr>
</tbody>
</table>

**Program Evaluation** – Chaired by Dr. Sheryl Zelenitsky  
Mandate: To recommend a coherent program of evaluation that integrates with as much of the curriculum as possible, including Faculty and Staff Development, and provides a comprehensive evaluation of outcomes of this educational program.

<table>
<thead>
<tr>
<th>Angela Shank – Admin Support</th>
<th>Dr. Neal Davies</th>
<th>Dr. Lavern Vercaigne</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Yuewen Gong</td>
<td>Dr. Rob Renaud</td>
<td>Dr. Chris Louizos</td>
</tr>
<tr>
<td>Dr. Hope Anderson</td>
<td>Kelly Drummond</td>
<td>Jacy Howarth - Student</td>
</tr>
</tbody>
</table>
Working Groups... cont.

**Experiential** – Chaired by Kelly Drummond

Mandate: To describe the Experiential Learning component of the PharmD curriculum which will provide an excellent experience that increases the accessibility, quality, quantity and variety of experiential learning opportunities to prepare pharmacy graduates to practice in expanded and innovative roles.

<table>
<thead>
<tr>
<th>Chrissy Laqui/Paola Cordova - Admin</th>
<th>Amy Marriot – WRHA</th>
<th>Amy Oliver – SDM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Christine Davis – SBGH</td>
<td>Dr. Dana Turcotte</td>
<td>Grazia Prochazka – WRHA</td>
</tr>
<tr>
<td>Jackie Mendez – MTT Pharm Tech</td>
<td>Jaden Brandt – Rural Community</td>
<td>Dr. Jamie Falk</td>
</tr>
<tr>
<td>Jarrid McKittrick – HSC</td>
<td>Joanne Johnson – Rural Community</td>
<td>Karin Ens – WRHA</td>
</tr>
<tr>
<td>Kyle MacNair – Rural hospital</td>
<td>Lesley Hoy – WRHA</td>
<td>Marc Geirnaert – CancerCare</td>
</tr>
<tr>
<td>Nancy Kleiman</td>
<td>Natalie Macleod-Schroeder – OT</td>
<td>Pat Hamilton – Rural Hospital</td>
</tr>
<tr>
<td>Ryan Buffie – Urban Community</td>
<td>Sharon Smith – Rural Community</td>
<td>Sheila Ng</td>
</tr>
<tr>
<td>Dr. Silvia Alessi-Severini</td>
<td>Dana Kowal – student</td>
<td>Kevin Huang – student</td>
</tr>
<tr>
<td>Susan Lessard-Friesen - CPhM</td>
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**Interprofessional Education** – Chaired by Dr. Grace Frankel

Mandate: To describe the Interprofessional Education component of the project and how it will be integrated into the PharmD curriculum that will provide an excellent experience for Pharmacy students to meet the goals of the PharmD project (described above). This will naturally require collaboration with several of the other work group committees.

<table>
<thead>
<tr>
<th>Sara Smith - Admin</th>
<th>Ashley Walus – WRHA</th>
<th>Britt Kural – Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Christine Leong</td>
<td>Dr. Frank Burczynski</td>
<td>Dr. Jeff Sisler – Medicine</td>
</tr>
<tr>
<td>Jennifer Thackery – NRHA</td>
<td>Nicole Nakatsu – Community</td>
<td>Pat Miller – WRHA</td>
</tr>
<tr>
<td>Roger Tam – Community</td>
<td>Sheri Dyck – SBGH</td>
<td>Scott Van – student</td>
</tr>
<tr>
<td>Tracy Thiele – WRHA nursing</td>
<td>Dr. Mike Namaka (Fall 2015 chair)</td>
<td></td>
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</tbody>
</table>

**Communication** – Chaired by Jan Coates

Mandate: To establish a robust communication strategy spanning the entire duration of planning, program development and implementation. As this project has significant impact on the pharmacy profession as a whole, throughout our province and beyond, as well as our interprofessional colleagues, the importance of a transparent and inclusive approach is critical.

<table>
<thead>
<tr>
<th>Sara Dyck – Admin Support</th>
<th>Angela Shank</th>
<th>Steve Birch - IT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brittany Kessler – student</td>
<td>John Danakas – MCO</td>
<td>Ilana Simon – Medicine</td>
</tr>
<tr>
<td>Stephanie Fehr – MCO</td>
<td>Melni Ghattora – Medicine</td>
<td></td>
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</tbody>
</table>

*Finance, Assessment and Faculty/Staff Development will be starting in the next year.*
Working Groups... cont.

Proposal Advisory Council – Chaired by Jan Coates

Mandate: To consider and provide feedback on recommendations received from the Work Groups in collaboration with the Pharm.D. Development Leadership Team, and thus assist in guiding the development and implementation of the proposal for a new professional doctoral degree program at the U of M. This proposal will guide the development of a new program that will fulfill all the criteria stipulated by Canadian Council for Accreditation of Pharmacy Programs (CCAPP) Standards, and meet the expectations of the AFPC stated Outcomes, to be called a professional doctoral (Pharm.D.) degree.

<table>
<thead>
<tr>
<th>Name</th>
<th>Stakeholder representation</th>
<th>Specific expertise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Rob Ariano Pharm.D.</td>
<td>Pharmacist Practitioner: Urban Hospital: SBGH</td>
<td>Tertiary Care Pharmacist</td>
</tr>
<tr>
<td>Dr. Christine Ateah RN, PhD</td>
<td>Professor, College of Nursing</td>
<td>Vice Dean, Faculty Health Sciences; IPE</td>
</tr>
<tr>
<td>Brent Booker Pharm.D.</td>
<td>Pharmacist Practitioner: Urban Community: Safeway</td>
<td>Co-chair Standards CPhM</td>
</tr>
<tr>
<td>Dr. Shawn Bugden Pharm.D.</td>
<td>College of Pharmacy: faculty</td>
<td>Scientific literature Evaluation Pharmaco epidemiology</td>
</tr>
<tr>
<td>Jan Coates (Chair)</td>
<td>Director, Pharm.D. Development</td>
<td></td>
</tr>
<tr>
<td>Dr. Catherine Cook MD</td>
<td>Professor, College of Medicine</td>
<td>Assoc. Dean, First Nations, Metis &amp; Inuit Indigenous Health</td>
</tr>
<tr>
<td>Drena Dunford</td>
<td>College of Pharmacy: faculty</td>
<td>Clinical Pharmacy</td>
</tr>
<tr>
<td>Dr. Anne Durcan MD</td>
<td>Physician: Primary Care Coordinator, Asst. Professor</td>
<td>Mount Carmel Clinic; WISH Clinic; Inuit Health Program, Northern Medical Unit</td>
</tr>
<tr>
<td>Jeanette Edwards</td>
<td>Regional Director Primary Health Care and Chronic Disease</td>
<td>Government Advisor &amp; WRHA appointment</td>
</tr>
<tr>
<td>Ron Eros BSc.Pharm</td>
<td>WRHA Pharmacy Program, director Provincial Pharmacy Working Group</td>
<td>Accountable to the Acute and Specialty Health Care collaborative;</td>
</tr>
<tr>
<td>Patrick Fitch</td>
<td>Canadian Society of Hospital Pharmacists, Urban Community Hospital</td>
<td>e-Health; Resident/Preceptor</td>
</tr>
<tr>
<td>Ms. Donna Forbes</td>
<td>Public Representative, CPhM</td>
<td>Consumer</td>
</tr>
<tr>
<td>Ron Guse</td>
<td>College of Pharmacists of Manitoba</td>
<td>Registrar (Regulating body)</td>
</tr>
<tr>
<td>Jane Lamont</td>
<td>Pharmacist: Rural Hospital: Brandon</td>
<td>Director, Pharmacy Program, Prairie Mountain Health Authority</td>
</tr>
<tr>
<td>Barret Procyshyn</td>
<td>Pharmacist Practitioner: Rural Community: Dauphin</td>
<td>Pharmacists Manitoba Vice President CPhA liaison</td>
</tr>
<tr>
<td>Dr. Colette Raymond Pharm.D.</td>
<td>Former Research and Practice Development; U of T; PharmD UBC;</td>
<td>MB Centre for Health Policy SPEP Education</td>
</tr>
<tr>
<td>Sharon Smith</td>
<td>President, Pharmacists Manitoba</td>
<td>Rural, Community pharmacist (Gladstone)</td>
</tr>
<tr>
<td>Harris Sohail</td>
<td>College of Pharmacy: Student Council 2015-16 3rd year Co-Stick</td>
<td>Student Perspective</td>
</tr>
<tr>
<td>Dr. Karen Sullivan B.Sc.Pharm., MHSA, PharmD</td>
<td>Director, Pharmacy Professional Affairs Shoppers Drug Mart and Loblaw</td>
<td>Industry</td>
</tr>
<tr>
<td>Dr. Sheryl Zelenitsky Pharm.D.</td>
<td>College of Pharmacy: faculty</td>
<td>Clinical Pharmacokinetics Infectious diseases Clinical Pharmacy</td>
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Events

White Coat Ceremony welcomes new Pharmacy Students

Faculty, staff, and members of the pharmacy profession were on hand in the Brodie Centre atrium to welcome fifty-four new student pharmacists into the pharmacy program, supported by an audience of their family and friends on September 22\textsuperscript{nd}, 2014.

Outstanding achievements of students throughout the professional pharmacy program were recognized in addition to faculty members and preceptors. Dr. Neal Davies, Dean of Pharmacy, served as the Master of Ceremonies and Mr. Ronald Guse, Registrar of the College of Pharmacists of Manitoba, was invited as a guest speaker. Students from all four years of the program were presented with awards, including the Summer Student Research Awards.

White coat ceremonies are a relatively new ritual and were introduced in Canadian Pharmacy programs in the late 1990’s. These ceremonies formally welcomed the students, and instilled a sense of pride and belonging in the profession of pharmacy. The presentation of the white coat symbolizes the hope, healing and dedication to patient care in the profession of Pharmacy. Dr. Dennis Cote invited Barbara Cinnamon, Wayne Couling, Dr. Gordon Krip and Phillip Young from the Class of 1964 and Dr. Keith Simmons from the Class of 1966 to the stage to present each first year student with a white coat. However, before they did, Mr. Ronald Guse presented a personalized white coat to each of the Golden graduate alumni drapers with their name and year of graduation.

Junior co-stick, Maira Ahmed welcomed the first years to the stage to be coated. Ms. Drena Dunford led the first year students in reciting the Pledge of Professionalism, publicly acknowledging their commitment to professionalism, integrity, and ethical conduct. Senior co-stick Riley Love addressed the first year students before Dr. Davies invited all the guests to the Apotex Centre for a reception.
Mr. Pharmacy 2014

By Alexis Wanner, 3rd Year student

November 22nd, 2014 marked the 3rd annual Mr. Pharmacy Pageant and Holiday Party for the College of Pharmacy. The competition was close, but 4th year student Joel Hart came out on top and was crowned Mr. Pharmacy 2014. The event was attended by students, faculty and professionals from the community and was a huge success.

The highly anticipated event was co-chaired by Alanna Doell, Alan Phung, and Alexis Wanner on behalf of the Canadian Association of Pharmacy Students and Interns (CAPSI) and the University of Manitoba Pharmacy Student Association (UMPhSA). After the previous year’s success, the goal for this event was to include more community professionals and promote unity amongst practitioners and students in a celebration of our chosen profession. The event was also an opportunity to give to those in need. Gently used professional attire was collected and donated to Siloam Mission and the South Winnipeg Family Information Centre.

The event took place at the beautiful Metropolitan Entertainment Centre. Cocktails were followed by a three-course meal before the show began with personal introduction videos for each of the contestants. The eight contestants competing for the coveted title were: from the Class of 2018, Shael Minuk and Jared Fridfinnson, from the Class of 2017, Oscar Quach and Michael Lachowicz, from the Class of 2016, Kevin Huang and Michael Wiebe, and from the Class of 2015, John Kim and Joel Hart. The eight contestants opened the live portion of the pageant with a group dance number choreographed by third year student Joyce Umandap.

While the gentlemen had a quick costume change the judges’ panel was introduced. This year five pharmacists made up the panel, including Dr. Dennis Cote, Dr. Silvia Alessi-Severini, Dr. Jamie Falk, Sharon Smith, and Gayle Romanetz. Throughout the night the judges commented on the event, the front-runners in the competition, and also the burden of being a ‘super pharmacist’.

The first competition of the night was the ‘Professional Dress’ portion, where the contestants showed off their sense of style, confidence, and charisma. Riley Love, the Senior Co-stick of UMPhSA and former contestant, announced the biographies as they took to the catwalk. This was followed by the ‘Question and Answer’ portion of the evening. The College of Pharmacists of Manitoba Registrar, Mr. Ronald Guse, grilled the contestants on their opinions about reward points for prescriptions, the Ebola outbreak, and the expanded role of pharmacists.

The second half of the show started with the
Pharmacy Practice Competition, sponsored by the Manitoba Society of Pharmacists. In the past, this event has been a pill counting contest. However, this activity alone does not reflect the true role of the modern pharmacist. To better reflect our roles as gatekeepers to patient safety and to encompass the practice of community and hospital pharmacists, a Prescription Reading Competition was held instead. Prescriptions (some of which were written by Manitoba’s own physicians) were displayed, and points were awarded for accurately deciphered drug names, strengths, and dosing regimens. The audience also had a good time trying to guess what each prescription said.

The last competition of the event was the talent portion. The contestants all showed off their unique talents, which included extreme yo-yo tricks, rapping, a mysterious magic show, and solving a Rubix Cube under a time limit.

The time finally came to announce the winners. Mr. Pharmacy 2013, Louis Chute, took the stage to say a few words and to help crown the new winner. John Kim was the recipient of the Mr. Congeniality award, a title voted on by the contestants themselves and meant for the person with the most enthusiasm and sportsmanship. The runner up was 3rd year contestant, Michael Wiebe, who also represented Manitoba in the first ever National Mr. Pharmacy Competition at Professional Development Week 2015 in Quebec City. Finally, Mr. Pharmacy 2014 was none other than Joel Hart. Joel impressed the judges with his quick costume changes throughout the evening and his talent; his own lyrics to well-known songs about life in the College of Pharmacy.

This event is certainly a unique occasion that brings members of the profession together for a great evening of entertainment. Our sincere gratitude goes out to all who volunteered to help organize the event, as well as to those who attended and sponsored the night. This is definitely a tradition that will continue to grow in the coming years. Congratulations to all of the contestants for a job well done, and to Michael for placing first in the talent section in Quebec City!
Graduate Awards Reception: Celebrating Excellence

As the fall semester drew to a close, the College of Pharmacy celebrated excellence in graduate education and research. With the continued support of our incredible donors, student and faculty research is booming in both quality and quantity.

Since 2005 the College of Pharmacy has hosted the Graduate Awards Reception to bestow scholarships to Masters and Ph.D. students and reconnect with the pharmacy community. In 2013, with the generous donation of Dr. Joanne Buggey and the Buggey family, the Leslie F. Buggey Endowed Professorship was established and it was decided this honour would be presented at the annual reception. This year marked the start of a new tradition when the inaugural award winner, Dr. Keith Simons, provided the first “Leslie F. Buggey Professor Lecture” as the invited speaker at this year’s reception. Dr. Simons has worked tirelessly on the development of a sublingual epinephrine tablet that can be used in place of an epinephrine autoinjector to treat life threatening anaphylaxis in allergic reactions.

Dr. Joanne Buggey joined Dr. Neal Davies, Dean of Pharmacy, and Dr. Simons to present the second Leslie F. Buggey Professorship to Dr. Sheryl Zelenitsky. Dr. Zelenitsky will continue her work improving the use of antibiotics and preserving their effectiveness in an era of increasing resistance. When asked how presenting the second Buggey Professorship felt Dr. Buggey, eloquent as always, said “It’s been a great experience for me and more than my wildest dreams.”

In honour of the 25th presentation of the Leslie F. Buggey Graduate Scholarship in Pharmacy, Dr. Ric Procyshyn, Pharmacy Class of 1983 and the first winner of this award, was invited to join in the presentation. Drs. Buggey and Procyshyn presented the 2014/2015 scholarship to Ms. Divna Calic, a Masters student currently researching antibiotic use in surgery cases. Divna graduated from the College of Pharmacy.
Graduate Awards Reception: Celebrating Excellence

in 2010 and recently returned for her Masters because of a special interest in infectious diseases and antimicrobials. Further study will help her apply these new skills to help patients in a clinical setting.

With the generosity of Mr. William G. Eamer and the College of Pharmacists of Manitoba, a scholarship has been offered to a graduate student who exhibits excellence in academics and community service each year since 2004. The William Eamer/CPhM Graduate Scholarship in Pharmacy was presented by Mr. Eamer, Mr. Ronald Guse, Registrar of the College of Pharmacists of Manitoba, and Ms. Dinah Santos, Vice President of the College of Pharmacists of Manitoba, to Ms. Sidi Yang. In addition to her research, developing a nanomicrobicide to prevent the transmission of HIV, Sidi was commended by Mr. Eamer for her commitment to improving health in our communities as an active volunteer. “It’s been a great pleasure for me [and] I’m honoured to present you with this award, “said Mr. Eamer.
Welcome to the Profession, Class of 2015

At the annual Welcome to the Profession Ceremony on May 28th, 2015, the College of Pharmacy, in collaboration with the College of Pharmacists of Manitoba, presented a new class of pharmacists to the public in front of family, friends, and faculty. These newly minted pharmacists will be practicing on the cutting edge of health care across Canada. After this ceremony, the graduates participated in the University Convocation at the Fort Garry Campus.

The University of Manitoba’s Apotex Centre has been home to the pharmacy students for four years as they earned their Bachelor of Science (Pharmacy) degree. The College of Pharmacy faculty and graduating class were led into the Brodie Centre by traditional bagpiping. Executives from the College of Pharmacists of Manitoba were on hand to ‘coat’ the Class of 2015. Each student is presented with a personalized white pharmacist’s coat to symbolize their new role as a health care professional.

Dr. Neal Davies, Dean of Pharmacy, was the emcee for the event and welcomed family, friends and supporters to the ceremony. He congratulated the students on long years of study and practice to achieve this prestigious degree. Mr. Ronald Guse, Registrar of CPhM, provided the Welcome to the Profession address. Mr. Riley Love gave the valedictorian address. He was also the Gold Medal winner and Senior Co-Stick for UMPhSA.

In a new tradition this year, Preceptor of the Year awards were given out at this ceremony instead of at the White Coat Ceremony in the autumn. Graduating students are asked to nominate exceptional preceptors who have helped shape their education. Mr. Daniel Rossi and Miss Laura Newlands nominated the St. Boniface Intensive Care Medical Services team as the “Pharmacy Team of the Year.” “Community Preceptor of the Year” went to Britt Kural, nominated by Grace Badejo. The “Hospital Preceptor of the Year” was Mark Friesen, nominated by Joel Hart. The “Elective Preceptor of the Year” was Dr. Chris Louizos.

The Class of 2015 then recited the “Oath of a Pharmacist”, led by Ms. Drena Dunford, instructor in the College of Pharmacy, before joining family and friends for a reception in the Apotex Centre.
Dr. Keith Simons’ Retirement

An outstanding professor, accomplished researcher and valued colleague retired from the University of Manitoba this year. Dr. Keith Simons retired from the College of Pharmacy after 40 years of service on June 30th, 2015 and was granted the title of Professor Emeritus. Dr. Simons was honoured at the Manitoba Pharmacy Conference on April 17th, 2015 with a reception at the Canadian Museum for Human Rights.

Dr. Keith J. Simons earned his BSc. (Pharm) degree from the University of Manitoba in 1966 and his MSc. in Pharmacy in 1969. He later completed his Ph.D. at the University of Washington, School of Pharmacy in Seattle in 1975 under the supervision of Dr. Rene Levy.

What you won’t find on Dr. Simons curriculum vitae are some of the intangibles attributes that he has provided friends, colleagues, students as a mentor, as a parent, as a spouse, and as a friend. Dr. Simons is a consummate professional and a true gentleman of great moral conviction and a distinguished disposition who always took the time to help others. We are all extremely proud of what Dr. Simons has achieved in his career and pharmacy is a better profession because of pharmacists like Keith.

Dr. Simons joined the, then, Faculty of Pharmacy at the University of Manitoba in 1975 as an Assistant Professor and was promoted to Full Professor in 1986. He moved up the ranks and has held a number of high-profile positions within the College of Pharmacy, including Division Head of Pharmaceutical Sciences from 1994-2004 and Associate Dean (Research) from 2004 to 2009. Dr. Simons served on and chaired most of the College of Pharmacy’s standing committees and various Faculty of Graduate Studies’ committees. He was a University of Manitoba Senator from 2003-2005. In the fall of 2013, he was awarded the inaugural Leslie F. Buggey Research Professorship.

During a career spanning over five decades Dr. Simons has rendered distinguished service and excellence in teaching. Dr. Simons has been a passionately committed and outstanding educator. He taught undergraduate and graduate courses in a variety of practice areas and has been recognized for his positive teaching methods. He has contributed to the education of more than 1,900 pharmacists, most of who are currently practicing in Manitoba. He has also supervised six Ph.D. students, six M.Sc. students, and two post-doctoral fellows. His trainees have all gone on to either academic positions or high level positions in the pharmaceutical industry. Dr. Simons is a prolific author with over 400 scholarly articles, abstracts books, and book chapters, and is frequently invited to speak at national and international conferences. He has received competitive research grants and industry funding totalling several million dollars which is indicative of his research excellence.

At his retirement reception, kind words were shared by those who had been impacted by Dr. Simons. Barret Procyshyn spoke on behalf of the Pharmacists Manitoba and Glenda Marsh from the College of Pharmacists of Manitoba. Both spoke to Dr. Simons’ long and fruitful career and his passion for education. More accolades were given when he was awarded the title Honorary Life Member of the Association of Faculties of Pharmacy of Canada at the Canadian Society of Pharmaceutical Sciences Conference in Toronto in June. As a profession, pharmacy should honor its scholars and associate itself with leaders like Dr. Simons.
Influenza Vaccination Clinics

Health Minister Erin Selby issues ‘the Flu shot challenge’: “If you haven’t had your flu shot, roll up your sleeve” and pharmacists hear the call.

Getting a vaccine is easier than ever in the province of Manitoba. To celebrate the regulations outlined in the Manitoba Pharmaceutical Act that granted pharmacists the ability to administer injections, Health Minister Erin Selby and Mr. Dennis White Bird from the Assembly of Manitoba Chiefs received their influenza vaccinations from Mrs. Dinah Santos, a certified pharmacist, Vice-President of the College of Pharmacists and an instructor at the University of Manitoba on October 10, 2014.

As the injection was being drawn up, Minister Selby asked “You’ve done this before, right?” Dinah Santos responded with “Of course, I’m fully trained!” It is that personal service that will be faithfully delivered in the expanded scopes of practice of pharmacy care and education. “Now many Manitobans can visit their local pharmacy to get their flu shot and other services from the pharmacist that they know, trust and respect,” said Mrs. Glenda Marsh, President of the College of Pharmacists of Manitoba.

Seeing how seamlessly it was performed, Mr. White Bird happily rolled up his sleeve, too. “The Assembly of Manitoba Chiefs is pleased to have First Nation engagement in this year’s provincial flu campaign,” said Grand Chief Derek Nepinak. With pharmacists now able to administer injections, rural and remote communities have significantly better access to the vaccinations and improved health-care.

Steele’s Apothecary within the College of Pharmacy was selected as the ideal location for these seminal injections of this year’s flu season. The Bannatyne campus is the educational epicenter of the University of Manitoba’s nationally recognized Pharmacy program. This location provides the necessary environment for the development of clinical skills that pharmacists have as a healthcare providers. All College of Pharmacy students are trained to administer injections and the University of Manitoba has partnered with the College of Pharmacists of Manitoba to certify over 530 practicing pharmacists in the province.

This will be the first year that Manitoba pharmacies are included as sites for flu vaccinations. Over 200 pharmacies in Manitoba are ready to administer the flu shot. All Manitobans are encouraged to contact their local pharmacy or health-care provider to arrange for their immunization.

Chief Public Health Officer, Dr. Michael Routledge, said roughly 20-25% of Manitobans receive their flu shot each year. “Every flu shot really counts”, said Dr. Routledge. The provincial campaign “Because it’s About Them Too. Get Vaccinated. Don’t Spread the Flu,” hopes to encourage a record number of flu vaccinations this year.
The College of Pharmacy is excited to introduce **Rx Preceptor**: an online experiential program management software.

This program allows us to schedule our students and manage both student and preceptor evaluations online. The major advantage for you as a preceptor will be your ability to complete evaluations of your students on the internet and easily submit them to the College of Pharmacy, replacing the need for paper forms.

How Rx Preceptor will work is very simple. You will receive an e-mail from Rx Preceptor with your online account information once a student is scheduled to your pharmacy by the College of Pharmacy SPEP team. You will then log into the system and personalize your account, such as changing your user name and password. We encourage you to customize your profile with photos, additional qualifications/specialties you may have and any information about your site and practice that you wish to share with potential students. Let’s use the software to its fullest potential! You will be able to see which students are scheduled to come to your pharmacy and be provided with their contact information and resume. Students are still required to contact you 1-2 weeks before their placements begin and, as always, support for preceptors is available through the College of Pharmacy’s SPEP team.

If you have any questions about this new program, suggestions for improving functionality, or are interested in becoming a preceptor, please email **Kelly.Drummond@umanitoba.ca**.
Community Blood Pressure Clinics

Healthy blood pressure is an essential component to cardiovascular health. The College of Pharmacy has added blood pressure assessments to the curriculum, ensuring new pharmacists are equipped to offer this service to patients upon graduation. This year pharmacy students along with Dental Hygiene students from the School of Dental Hygiene operated community outreach clinics offering free blood pressure assessments and lifestyle counseling in collaboration with the Heart and Stroke Foundation.

Dr. Christine Leong, Assistant Professor in the College of Pharmacy has been building physical assessments into the curriculum since 2013 with the assistance of Pharmacy Skills Lab coordinator, Dr. Chris Louizos. Students first had hands on practice of assessment skills in a periodontal clinic in the first year of the program. The students expressed an interest for more practice of physical assessments, a skill that is also outlined in the AFPC Educational Outcomes. Dr. Leong received a District V grant to incorporate blood pressure practice in the 3rd year of the pharmacy curriculum.

Three clinics were operated in Winnipeg, with 53 pharmacy students and 17 dental hygiene students participating. At two clinic sites, Good Neighbours Active Living Centre and Parkside Plaza, Amanda Nash, a registered dietician with the Heart and Stroke Foundation, was on hand to present nutrition and lifestyle information to patients. Students were supervised by College of Pharmacy faculty: Dr. Leong, Dr. Louizos, Dr. Grace Frankel, Dr. I fan Kuo, Dr. Casey Sayre, Ms. Kelly Drummond, Ms. Nancy Kleiman and
Ms. Drena Dunford. Approximately 150 patients had their blood pressures read by students.

Additionally, two third year students, Alexis Wanner and Marlee Stewart, facilitated their own blood pressure clinic while on their Structured Practical Experiential rotation in Churchill, Manitoba.
In January 2014 the approval for pharmacists’ expanded scopes of practice came into effect. With the guidance of Dr. Lavern Vercaigne, Associate Dean (Academic) and Dr. Neal Davies, Dean of Pharmacy, updates to the curriculum have begun which will allow graduates to fully meet the needs of patients in Manitoba. One such curriculum change was started in the 2014/2015 year with the addition of Prescribing for Ambulatory Ailments into the 2nd year of the program.

In two key courses, Clinical Pharmacy 1 and Pharmacy Skills Lab 2, the information and opportunity to practice the skills of prescribing was adopted. Ms. Drena Dunford teaches Clinical Pharmacy 1 and added information on the conditions and prescribing options for pharmacists, as well as how to educate patients on the prescriptions they could receive. To give students the time to practice this new skill, a special lab in Pharmacy Skills Lab 2, created by Ms. Sheila Ng and coordinated by Dr. Casey Sayre, was implemented. “This is the first time in their education when they actually wrote the prescription. It’s very exciting for the profession,” said Ms. Dunford.

Students were taught to conduct a patient assessment, arrive at a differential diagnosis and present three therapies to their patients, in addition to non-pharmacological treatments. Acting in small groups students were all ‘patients’ for each other. They then had to write a prescription that would satisfy the legal requirement put forth by the College of Pharmacists of Manitoba, document their actions following the CPhM guidelines and develop an appropriate monitoring plan with their patient. The feedback on this lab was very positive overall. Students enjoyed the hands on application of their lectures and could see the real world application.

The lab activity would not have been possible without the efforts, supervision and input of Ms. Nancy Kleiman, Ms. Sonal Purohit and Dr. Grace Frankel, Instructors with the College of Pharmacy, and the technical support of Ms. Chrissy Laqui and Ms. Paola Cordova.

Right now, practicing pharmacists need to complete continuing education modules to be able to prescribe medications for conditions like thrush, allergic rhinitis and eczema. The full list of ambulatory ailments and approved treatments are available through CPhM.
Undergraduate Program

Undergraduate Enrolment

The College of Pharmacy had 55 students who confirmed their acceptance for the 2014/15 academic session, by the end of August. The Admissions meeting for review of applicants was held on June 19, 2014. The recommendation was to offer positions to 54 applicants (included one applicant from the special consideration list) with 9 on the wait list.

The total number of applications for entry to the Faculty in 2014-2015 was 300.

Table 1: Student Profile 2014-2015

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<th>Year</th>
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<th>Male</th>
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<td>32 (62%)</td>
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<td>21 (44%)</td>
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</tbody>
</table>

127 (61%) 82 (39%) 209

Graduates

Jessica Adria  Melissa Gobin  Sarah Kolshuk  Dustin Reimer
Grace Badejo  Ruth Habte  Alexander Lei  Daniel Rossi
Tyler Campbell  Joel Hart  Amy Lo  Curtis Russel
Kevin Chaboyer  Bradley Hernden  Riley Love  Antonio Sacco
Shawn Chohan  Aimee Hetherington  Jenny Luc  Jasdeep Sandhu
Rick Damsel  Joseph Ho  Amanda Mazinke  Samuel Shuster
Geraldine De Lemos  Himath Jayasinghe  Janice Neufeld  Kulwant Singh
Jaclyn Deonarine  Trevor Johnson  Laura Newlands  Jae Song
Alysha Dudych  Inderpal Kaler  Jeffrey Ngo  Nicholis St. Goddard
Kathleen Fogg  Linnaea Kaminski  P.J. Marlon Perez  Franil Tailor
Jesse Franklin  Daechong Kim  Ryan Persaud  Amanda Wallack
Stephanie Gautron  John Kim  Kristen Poncsak  Jennifer Young

Members of the Class of 2015
Welcome to The Profession, graduating Class of 2015!
I want to take a moment and thank each and every person on behalf of our class. Without the support of family and friends we wouldn’t be here today, so thank you! With that said, in the immortal words of my beloved Toronto Raptor’s Global Ambassador Drake, “WE MADE IT!” Through the late nights cramming for clinical, through the early mornings running on only stress and caffeine, through the PHIA OSCE’s in year 1 to the Indapa-what OSCE in year 3, WE MADE IT! And we made it together. Some of our professors may argue that we got closer as a class as the years went on, based on the fact that we seemed to split the classroom into a right and left side with the middle unoccupied. But I think that arrangement was largely due to us getting smarter and realizing that you were more likely to be chosen to answer a question if you sat near the middle. I know for me, personally, I have met some of my best friends in the Friendly Back Row and it’s bittersweet knowing that I won’t get to see everyone everyday as I’ve grown accustomed to over the years.

When we all came together 4 years ago we all had our own preconceived notions about what being a pharmacist was all about. I still remember that first day when we were all asked to introduce ourselves and say why we wanted to be a pharmacist. For those of you who weren’t there the answers ranged from “wanting to help people” to “I like drugs”, with a few “I like chemistries” sprinkled in between. I myself answered that “I wanted to help people” but I’ll be honest and say that the question stumped me that day. When I really thought about it, I didn’t really know why I wanted to be a pharmacist. Sure, I wanted to help people (I think each and every person in this class would say the same), but why pharmacy? Why not being a teacher, or a nurse, or a physician, or one of the countless other careers that help people every day? I then thought about how I would answer that question if I were asked it today, 4 years and many exams later. I think my answer would go something like this:

I want to be a pharmacist because I see a country and healthcare system that is battling with increasing healthcare costs, an aging population, increases in diabetes and obesity and gaps in healthcare in many underserved areas. I see pharmacy as a way to control healthcare spending
and improve patient health through targeted medication reviews. I see pharmacy as a way to educate patients on lifestyle changes that can prevent and help treat obesity and diabetes as frontline health professionals. I see pharmacy as an opportunity to make a difference in patients’ lives and close these gaps through the new expanded scope of practice being rolled out not only in Manitoba but also across the country.

As you can see my answer is quite different than the one I gave 4 years ago and I think highlights the growth that I think most of us have undergone. I challenge each of my classmates to ask yourself the same question. I think it’s an important question at this point in your life as you complete the transition from student to professional because it allows you to begin your career with the end in mind. What do you want to accomplish? How do you want your colleagues and patients to remember you? What do you want to be able to tell your classmates at our 30-year reunion?

I wanted to close with something that Dr. Shawn Bugden said at the Manitoba Pharmacy Conference in his acceptance speech after winning Pharmacist of the Year. He said that he didn’t see himself as the pharmacist of the year, he saw himself as the pharmacist of many 5-minute encounters where he might’ve made a difference. I thought this was a really powerful message that hit home with me about what being a pharmacist is all about. As we all head off into the real world we are going to be faced with many situations where just spending 5 minutes with someone could make a huge difference for them and their health. I challenge each and everyone one of you to be the pharmacist of as many 5-minute encounters as you can and promise you that that little bit of extra time you spend helping a patient select an OTC medication, discussing adherence issues or providing diabetes education will make all the difference in the world.

When I think of my classmates, I don’t just see 47 future leaders of pharmacy in Manitoba; I see 47 friends, 47 people that have each helped each other and myself along this journey that culminates today with the receipt of our diplomas. Thank you.
Undergraduate Student Awards

Courtney Lawrence, (Year 1): Doreen O'Donnell Memorial Scholarship. Highest standing in first year pharmacy

Lane Sokolowski, (Year 1): William G. Eamer/College of Pharmacists of Manitoba Scholarship. Academic excellence and demonstrated social responsibility and personal initiative through active participation in student government or other student community service [FOUR AWARDS are granted]

Courtney Lawrence, (Year 1): Dr. D. McDougall Memorial Scholarship. Outstanding merit in Fundamentals of Pharmaceutics (PHRM1300)

Haley Foxton and Naomi Wolfe (Year 1): Procurity Pharmacy Services Inc. Award. Outstanding merit (great aptitude) in Skills Lab I (PHRM1100); obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5 [TWO AWARDS are granted]

Taylor McVannel and Patricia Gorczyca, (Year 2): Procurity Pharmacy Services Inc. Award. Outstanding merit in Skills Lab II (PHRM2100); Obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5. [TWO AWARDS are granted]

Dana Kowal, (Year 2): Petranko Award of Excellence for Clinical Pharmacy 1. For a student who has completed second year of the B.Sc. in Pharmacy with high academic standing and shown outstanding merit in Clinical Pharmacy I

Erika Hartel, (Year 2): Bletcher Memorial Scholarship. High standing in second year pharmacy

Dana Kowal: Pharmacy Class of 1966 Scholarship (Year 2). Completion of 1st or 2nd year with high academic standing (min GPA 3.5) and demonstrated leadership & involvement in extra-curricular activities (by letter of application)

Stephanie Bryant, (Year 2): Pharmacy Class of 2004 Memorial Scholarship: enrolled in at least 2nd year, good academic standing, demonstrated leadership qualities and extra-curricular involvement

Katlyn Taylor, (Year 2): William G. Eamer/College of Pharmacists of Manitoba Scholarship. Academic excellence and demonstrated social responsibility and personal initiative through active participation in student government or other student community service [FOUR AWARDS are granted]

Erika Hartel, (Year 2): College of Pharmacists of Manitoba Scholarship. Outstanding merit in second year pharmacy

Nicholas Rusnick (Year 2): The Doreen Ash Memorial Prize (student nominated). For a student active in available sports programs, social programs and student activities of the College with at least one year of Pharmacy

Patricia Gorczyca, (Year 2): Joseph & Sylvia Lavitt Award in Pharmacy. For a student enrolled full-time in the third year of the B.Sc. Pharmacy and in good academic standing

Joseph Gille, (Year 2): Sanofi-Aventis Award in Law & Ethics. Highest academic standing in the jurisprudence section of PSL-2 PHRM2100

Joseph Gille, (Year 2): Stewart G. Wilcox Award. Completion of the second year of the program in the College of Pharmacy with high academic standing and achieving the highest standing in the course PHRM2100: Juris-
Undergraduate Student Awards ... cont.

prudence Section

Arianna Crowe, (Year 2): Mrs. Ethel Roberts Memorial Prize. Outstanding merit in second year pharmacy [Not tenable with other awards]

Dana Kowal, (Year 2): Manitoba Pharmacists’ Women’s Auxiliary Scholarship. Outstanding merit in second year pharmacy

Patricia Gorczyca, (Year 2): Donald J. Forsyth Memorial Scholarship. Outstanding merit in second year pharmacy


Erika Hartel, (Year 2): Novopharm Ltd. Scholarship in Medicinal Chemistry. Highest aggregate standing in first and second year medicinal chemistry

Erika Hartel, (Year 2): Novopharm Ltd. Award in Biopharmaceutics/Pharmacokinetics. Highest aggregate standing in Biopharmaceutics (2270) & Pharmacokinetics (2280)

Jenny Fehr (Year 2): Shopper's Drug Mart Community Pharmacy Scholarship. highest standing, not tenable, preference to those interested in community pharmacy

Lyndon Walker, (Year 2): Flexon Silver Medal. Highest aggregate standing in Medicinal Chemistry courses

Lyndon Walker, (Year 2): Dr. Roman (Roy) Bilous Scholarship. High academic standing for a FT student completing third year who has achieved high academic standing in the Medicinal Chemistry subject stream

Erika Hartel, (Year 2): Dr. A.W. Hogg Undergraduate Scholarship. Highest standing in the College of Pharmacy

Maira Ahmed, (Year 3): The Mike Kupfer Memorial Award (student nominated). Participated in student activities; demonstrated high degree of empathy of fellow students

Nicholas Malzahn and Kyra Skrupski (Year 3): Procurity Pharmacy Services Inc. Award. Outstanding merit in Skills Lab III (PHRM3100); Obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5. [TWO AWARDS are granted]

Emily Wiebe, (Year 3): Isbister Scholarship in Pharmacy. Highest standing in any year (first, second, third)

Nicholas Malzahn, (Year 3): Harry Singer Memorial Medal. High academic standing and demonstrated outstanding merit in the second & third year Skills Lab in the patient counseling component; minimum cumulative GPA 3.5

Andrew Kramer (Year 3): Shopper's Drug Mart Community Pharmacy Scholarship. highest standing, not tenable, preference to those interested in community pharmacy

Nicholas Malzahn, (Year 3): Bonnie Schulz Memorial Scholarship. Outstanding merit in the Standardized Patient streams of PSL-1, 2 and 3 with particular emphasis on the Drug Information Component.

Jacy Howarth (Year 3): Natural Medicines Comprehensive Database Prize in Pharmacy. High academic standing and demonstrated promise in improving patient care and an appreciation for scientific inquiry and an evidence-based approach to evaluating natural medicines
Undergraduate Student Awards ... cont.

Jessica Holben, (Year 3): Professional Development Week Award. For a student who has demonstrated involvement in student-related activities in the Faculty, professional pharmaceutical organizations, and/or volunteer activities; given to a second or third year student who is in good standing in the College of Pharmacy.

Alexis Wanner, (Year 3): William G. Eamer/College of Pharmacists of Manitoba Association Scholarship. Academic excellence and demonstrated social responsibility and personal initiative through active participation in student government or other student community service [FOUR AWARDS are granted].

Emily Wiebe (Year 3): College of Pharmacists of Manitoba Silver Medal in Third Year Pharmacy. Highest standing in third year pharmacy.

Alexis Wanner, (Year 3): Martin Irwin Sexton Memorial Scholarship: a full time student who has completed 1st year with good academic standing and proof of community service and participation in pharmacy events, and has an interest in practicing community pharmacy.

Doris Cheung, (Year 3): Sheppy I. Adler Memorial Scholarship. Best major project (essay, oral presentation or display) in Natural Health Products (PHRM3430).

Alexis Wanner, (Year 3): Canadian Pharmacists Association Centennial Award. Student Council nominates a third year student for the award, who promotes the faculty and profession, is actively involved with student council and other local/provincial associations, who participates in student athletics and other extracurricular activities, is in good academic standing, and is a CPhA student Member.

Kathleen Fogg, (Year 4): Audrey Koz Memorial Prize. Outstanding merit in Clinical Pharmacy 3 (PHRM 4310) and SPEP-4 (PHRM4700).

Riley Love, (Year 4): David Stern Memorial Scholarship. Highest standing Pharmacy Practice Management (PHRM4230) and who plans to pursue a career in retail pharmacy.

Jaclyn Deonarine, (Year 4): Dr. D. McDougall Memorial Trophy (student nominated). Good scholastic standing throughout undergraduate years, citizenship and dedication.

Jaclyn Deonarine, (Year 4). Pharmacy Class 2009 – Passion & Commitment award. Successfully completed the requirements for the BSc. Pharmacy program with a minimum degree grade point average of 3.0, & a strong record of community service within the broader community, the College of Pharmacy, and/or the University.

Grace Badejo and Kevin Chaboyer, (Year 4): Outstanding paper in the Electives Course (PHRM4800). GB: "Characterization of bloodstream infection pathogens in hemodialysis patients" (preceptor Dr. Sheryl Zelenitsky); KC"Effects of a Doxorubicin-Quercetin Prodrug on Cardiac Myocyte Viability" (Preceptors: Dr. H. Anderson, Dr. C. Sayre and Dr. C. Alibin).

Riley Love, (Year 4): Dr. J.R. Murray Scholarship. After completing Manitoba Grade 12 proceeded to 1st year Science in a Manitoba University; Minimum GPA 3.5; High standing in all years of the program; Has participated in extra-curricular activities.

Kevin Chaboyer, (Year 4): Manitoba Branch – Canadian Society of Hospital Pharmacists Award. Outstanding merit in Clinical Pharmacy 3 (PHRM4310) and SPEP-4 (PHRM4700).
Undergraduate Student Awards ... cont.

Riley Love, (Year 4): University Gold Medal. Highest standing in Pharmacy; Based on degree GPA

Riley Love, (Year 4): CPhM Gold Medal in fourth year Pharmacy. Highest GPA during second, third, & fourth year (pharmacy courses only)

Riley Love, (Year 4): Abraham Schwartz Prize. Highest standing in B.Sc. (Pharm)

Riley Love, (Year 4): Mark Rose Memorial Book Prize. Highest standing in B.Sc. (Pharm)

Amanda Mazinke, (Year 4): CPhM President’s Prize. Outstanding merit in fourth year pharmacy courses

Alysha Dudych, (Year 4): CPhM Silver Medal. Second highest GPA second, third, fourth year pharmacy courses only.

Ruth Habte and Joel Hart (Year 4): Procurity Pharmacy Services Ltd. Award (2). Highest standing in PHRM4230 Pharmacy Practice Management

Grace Badejo, (Year 4): Langley Jones Leadership Award (student nominated). For aptitude for community pharmacy and consumer health care products and leadership qualities

Emily Wiebe, (Year 3): Frank Edick Memorial Prize. Highest standing in Clinical Pharmacy 2 (PHRM3310)

Riley Love, (Year 4): Halsey A. Park Memorial Prize. For outstanding merit in the aggregate of clinical pharmacy (PHRM 3310 & PHRM 4310); active participation in the life of the University and a promise of advancing the profession

Mr. Riley Love receiving the CPhM Gold Medal from Mr. Petr Prochazka, CPhM council member
Dean’s Honour List

Year 1

Lawrence, Courtney
Vassart, Madison

Year 2

Ahmed, Mariam
Crowe, Arianna
Fehr, Jenny
Gorczyca, Patricia
Hartel, Erika
Holben, Jessica
Kaminsky, Emily
Kowal, Dana
Quintana, Janelle
Spryszak, Meredith

Year 3

Hawkins, Jenna
Howarth, Jacy
Kort, Jessica
Kraemer, Andrew
Malzahn, Nicholas
Wiebe, Emily

Year 4

Badejo, Oluwatusin
Chaboyer, Kevin
Dudych, Alysha
Fogg, Kathleen
Gautron, Stéphanie
Habte, Ruth
Hart, Joel
Hetherington, Aimee
Kaler, Inderpal
Lei, Alexander
Lo, Amy
Love, Riley
Mazinke, Amanda
Shuster, Samuel
Singh, Kulwant

Members of the Class of 2015
Canadian Society of Pharmaceutical Sciences Conference 2015

By Grace Badejo, Class of 2015

Last summer, I had the pleasure of working with Dr. Christine Leong on a summer research project which explored pharmacists’ role in prevention of medication misuse and abuse. With her encouragement and guidance we developed a poster: “Pharmacist-led Interventions for the Identification and Prevention of Medication Misuse, Divergence and Overdose”, to present at the CSPS Conference which was held from May 26-28 in Toronto. Students, professors and delegates from pharmacy institutions across the country were all in attendance (though Manitoba had the largest representation by far). My classmate, Jessica Adria, also attended and submitted a poster based on the summer research work she had done in Dr. Emmanuel Ho’s lab. Jessica’s work won a GlaxoSmithKline National Summer Student Research Program Award, while Dean Neal Davies was recognized for his decades of work in the pharmaceutical sciences with the CSPS Leadership Award.

Jessica and I arrived in Toronto a day early to explore and take a break after the PEBC exams the previous week. We went for a walking tour of Chinatown and ran into Dr. Ho, who was enjoying his old stomping grounds with some bubble tea. We checked out Kensington Market, one of Toronto’s most famous neighbourhoods and managed to fit in a bit of shopping.

The next morning we presented our posters at the conference with a group of other attendees and had the opportunity to network with students and representatives from other pharmacy institutions across the country. Yufei Chen and Ryan Lillico from our very own University of Manitoba were both selected to perform oral presentations on their work: “Evaluating the Drug Release and In Vivo Biocompatibility of an Intravaginal Implantable Device in a Rabbit Model” and “HDAC Inhibitor Induced Changes in Histone Methylation”.

There were many other interesting presentations and sessions that delved into topics such as subsequent entry biologics and mucosal drug delivery. One of the topics I found most interesting and unusual was presented by Haeshin Lee of KAIST, Korea on “Adhesive Paintable Biomaterials Inspired by Marine Mussels”.

Later that evening was the award gala dinner which allowed everyone to come together and celebrate their achievements and discuss their favourite sessions of the day. However, Jessica, Dr. Gong, Dr. Davies and I had to leave early to catch a flight back to Winnipeg as the Welcome to the Profession Ceremony was planned to start in just over 12 hours!

The CSPS Conference was a great way to end the school year and learn more about the pharmaceutical sciences. It is just one of the many examples of the wide range of experiences a career in pharmacy and pharmacy research can provide.
1. OVERVIEW OF COLLEGE OF PHARMACY GRADUATE ENROLMENT FOR 2014-2015

Summary of Graduate Students, as of June 1, 2014

<table>
<thead>
<tr>
<th>M.Sc.</th>
<th>Ph.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of continuing graduate students, as of June 1, 2014</td>
<td>13</td>
</tr>
<tr>
<td>Number of incoming graduate students</td>
<td>3</td>
</tr>
<tr>
<td>Total number of graduate students</td>
<td>16</td>
</tr>
</tbody>
</table>

New Students, 2014-2015

<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Samaa Alrushaid</td>
<td>Ph.D.</td>
<td>Dr. Casey Sayre</td>
<td>January 2015</td>
</tr>
<tr>
<td>Mr. Juliano Amador da Silva</td>
<td>M.Sc.</td>
<td>Dr. Shawn Bugden</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Yuhua Fang</td>
<td>M.Sc.</td>
<td>Dr. Geoffrey Tranmer</td>
<td>September 2014</td>
</tr>
<tr>
<td>Ms. Danielle Lee</td>
<td>M.Sc.</td>
<td>Dr. Hope Anderson</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Dinghua Liang</td>
<td>M.Sc.</td>
<td>Dr. Geoffrey Tranmer</td>
<td>September 2014</td>
</tr>
<tr>
<td>Ms. Olasumbo Ojo</td>
<td>M.Sc.</td>
<td>Dr. Shawn Bugden</td>
<td>January 2015</td>
</tr>
<tr>
<td>Mr. Nicholas Stesco</td>
<td>M.Sc.</td>
<td>Dr. Ted Lakowski</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Yannick Traore</td>
<td>M.Sc.</td>
<td>Dr. Emmanuel Ho</td>
<td>September 2014</td>
</tr>
<tr>
<td>Ms. Jiaqi Yang</td>
<td>M.Sc.</td>
<td>Dr. Yuewen Gong</td>
<td>September 2014</td>
</tr>
</tbody>
</table>
# Graduate Studies Committee Report 2014-2015

## List of Current Master Students, as of June 1, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Tina Khorshid Ahmad</td>
<td>Dr. Mike Namaka</td>
<td>January 2013</td>
</tr>
<tr>
<td>Mr. Juliano Amador da Silva</td>
<td>Dr. Shawn Bugden</td>
<td>September 2014</td>
</tr>
<tr>
<td>Ms. Noor Breik</td>
<td>Dr. Silvia Alessi-Severini</td>
<td>January 2013</td>
</tr>
<tr>
<td>Mr. Yuhua Fang</td>
<td>Dr. Geoffrey Tranmer</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Kevin Friesen</td>
<td>Dr. Shawn Bugden</td>
<td>January 2014</td>
</tr>
<tr>
<td>Ms. Miral Fumakia</td>
<td>Dr. Emmanuel Ho</td>
<td>May 2014</td>
</tr>
<tr>
<td>Ms. Danielle Lee</td>
<td>Dr. Hope Anderson</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Dinghua Liang</td>
<td>Dr. Geoffrey Tranmer</td>
<td>September 2014</td>
</tr>
<tr>
<td>Ms. Olasumbo Ojo</td>
<td>Dr. Shawn Bugden</td>
<td>January 2015</td>
</tr>
<tr>
<td>Mr. Refaat Omar</td>
<td>Dr. Yuewen Gong</td>
<td>January 2014</td>
</tr>
<tr>
<td>Mr. Nicholas Stesco</td>
<td>Dr. Ted Lakowski</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Yannick Traore</td>
<td>Dr. Emmanuel Ho</td>
<td>September 2014</td>
</tr>
<tr>
<td>Ms. Jiaqi Yang</td>
<td>Dr. Yuewen Gong</td>
<td>September 2014</td>
</tr>
</tbody>
</table>

## List of Current Ph.D. Students, as of June 1, 2015

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Bolanle Akinwumi</td>
<td>Dr. Hope Anderson</td>
<td>September 2012</td>
</tr>
<tr>
<td>Ms. Samaa Alrushaid</td>
<td>Dr. Casey Sayre</td>
<td>January 2015</td>
</tr>
<tr>
<td>Ms. Divna Calic</td>
<td>Dr. Sheryl Zelenitsky</td>
<td>January 2014</td>
</tr>
<tr>
<td>Mr. Yufei Chen</td>
<td>Dr. Emmanuel Ho</td>
<td>May 2011</td>
</tr>
<tr>
<td>Mr. Ryan Lillico</td>
<td>Dr. Lean Chee, then Dr. Ted Lakowski</td>
<td>May 2012, then May 2013</td>
</tr>
<tr>
<td>Ms. Yan Lu</td>
<td>Dr. Hope Anderson</td>
<td>September 2010</td>
</tr>
<tr>
<td>Mr. Sarandeep Malhi</td>
<td>Dr. Xiaochen Gu</td>
<td>May 2013</td>
</tr>
<tr>
<td>Ms. Stephanie Martinez</td>
<td>Dr. Neal Davies</td>
<td>January 2012</td>
</tr>
<tr>
<td>Ms. Sidi Yang</td>
<td>Dr. Emmanuel Ho</td>
<td>September 2011</td>
</tr>
</tbody>
</table>

## Student Withdrawals as of June 1, 2015

<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
<th>Supervisor</th>
<th>Withdrawal Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Jordyn Lerner</td>
<td>Ph.D.</td>
<td>Dr. Emmanuel Ho</td>
<td>July 2014</td>
</tr>
</tbody>
</table>
List of Incoming Students, as of June 30, 2015

<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maricar de Leon</td>
<td>M.Sc.</td>
<td>Dr. Carole Lavigne</td>
<td>September 2015</td>
</tr>
<tr>
<td>Amani Hamad</td>
<td>Ph.D.</td>
<td>Dr. I Fan Kuo</td>
<td>September 2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Silvia Alessi-Severini</td>
<td></td>
</tr>
<tr>
<td>Tyson Le</td>
<td>M.Sc.</td>
<td>Dr. Frank Burczynski</td>
<td>September 2015</td>
</tr>
<tr>
<td>Jordan Nash</td>
<td>M.Sc.</td>
<td>Dr. Shawn Bugden</td>
<td>September 2015</td>
</tr>
</tbody>
</table>

*Adjunct Professor

2. COLLEGE OF PHARMACY GRADUATE ACHIEVEMENTS FOR 2014-2015

Graduates

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Examining Committee</th>
<th>Oral Defence</th>
<th>Graduation Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Mr. Kevin Hamilton</td>
<td>M.Sc.</td>
<td>Dr. Shawn Bugden1</td>
<td>March 24, 2015</td>
<td>May 2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Jamie Falk2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Christine Davis2,4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Sheryl Zelenitsky2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Alex Singer3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Ms. Sarita Jha</td>
<td>M.Sc.</td>
<td>Dr. Silvia Alessi-Severini1</td>
<td>July 28, 2014</td>
<td>October 2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. David Collins1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Shawn Bugden2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Robert Biscontri2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Laurence Katz2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Dr. Casey Sayre</td>
<td>Ph.D.</td>
<td>Dr. Neal Davies1</td>
<td>September 18, 2014</td>
<td>February 2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Alessi-Severini2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Rob Ariano3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Dan Sitar3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Raimar Loehenberg5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Ms. Siyan Wang</td>
<td>M.Sc.</td>
<td>Dr. Frank Burczynski1</td>
<td>July 28, 2014</td>
<td>May 2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Dennis Cote2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Neal Davies2</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Geoffrey Tranmer2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Judy Anderson3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Ms. Zhanni Weber</td>
<td>M.Sc.</td>
<td>Dr. Sheryl Zelenitsky1</td>
<td>December 10, 2014</td>
<td>February 2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Lavern Vercaigne1</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Dr. Rob Ariano2</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Dr. Philippe Lagace-Wiens3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1Advisor; 2Internal Committee Member; 3External Committee Member (University of Manitoba); 4Non-Voting; 5External Committee Member (non-University of Manitoba)
**Graduate Studies Committee Report 2014-2015 ... cont.**

**Candidacy Exams**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Date of Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephanie Martinez</td>
<td>Dr. Neal Davies</td>
<td>September 17, 2014</td>
</tr>
<tr>
<td>Yan Lu</td>
<td>Dr. Hope Anderson</td>
<td>November 26, 2015</td>
</tr>
<tr>
<td>Sidi Yang</td>
<td>Dr. Emmanuel Ho</td>
<td>February 2, 2015</td>
</tr>
</tbody>
</table>

**Ph.D. Thesis Proposals**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Date of Proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yan Lu</td>
<td>Dr. Hope Anderson</td>
<td>June 25, 2014</td>
</tr>
<tr>
<td>Bolanle Akinwumi</td>
<td>Dr. Hope Anderson</td>
<td>November 24, 2014</td>
</tr>
</tbody>
</table>

**Transfer to Ph.D.**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Divna Calic</td>
<td>Dr. Sheryl Zelenitsky</td>
<td>May 2015</td>
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</tbody>
</table>

**Merit-Based Awards/Scholarships**

<table>
<thead>
<tr>
<th>Award/Scholarship</th>
<th>Recipient(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-2015 Lesley F. Buggey Graduate Scholarship</td>
<td>Divna Calic</td>
</tr>
<tr>
<td>2014-2015 MPhA/William G. Eamer Graduate Scholarship</td>
<td>Sidi Yang</td>
</tr>
<tr>
<td>2015-2016 University of Manitoba Graduate Fellowship</td>
<td>Divna Calic Ahmani Hamad Dinghua Liang</td>
</tr>
<tr>
<td>AFPC/Rx and D – Student Research Poster Award</td>
<td>Yan Lu</td>
</tr>
<tr>
<td>2014 AFPC Whit Matthews Graduate Student Poster Award</td>
<td>Kevin Hamilton</td>
</tr>
<tr>
<td>2015 Gattefossé Canada/CSPS Award in Lipid-Based Drug Delivery</td>
<td>Miral Fumakia</td>
</tr>
</tbody>
</table>
Publications – Papers published or in press


Presentations; Conference Participation


Friesen K, Bugden S. Fentanyl patches: A sticky safety situation. 2015 Canadian Agency for Drugs and Technologies in Health Symposium. Saskatoon, Canada. 2015.


Lillico R, Lakowski TM. Epigenetic treatments in cancer therapy. 2015 Manitoba Pharmacy Conference, Winnipeg MB.

Lu Y. Effect of cannabinoid receptor activation on aberrant mitochondrial bioenergetics in hypertrophied cardiac myocytes. European Meeting on Hypertension and Cardiovascular Protection. Milan, Italy. 2015.

Lu Y. Cardioprotective effects of CB-13, a CB1/CB2 cannabinoid receptor with limited brain penetration. Canadian Society for Pharmaceutical Sciences Conference. Toronto, Canada. 2015.


**Graduate Studies Committee Report 2014-2015 ... cont.**


**Martinez SE, Sayre CL, Frankel GEC, Davies NM.** Stereospecific characterization of the pre-clinical pharmacokinetics, pharmacological activities and content analysis in natural health products of 8-prenylnaringenin, a potent phytoestrogen found in hops (*Humulus lupulus*). Canadian Society for Pharmaceutical Sciences 17th Annual International Symposium. Montreal, Canada. 2014.


**Traore YL, Chen Y, Ho EA.** Evaluating the impact of hydroxychloroquine-loaded polyurethane intravaginal rings on lactobacilli. 28th Canadian Student Health Research Forum (CSHRF). Winnipeg, Canada. June 2015.


**Yang S, Gu J, Ho E.** Intravaginal gel for the targeted delivery of siRNA to t-cells as a potential strategy for HIV-1 Prevention. AFPC Annual Conference. Saskatoon, Canada. 2014.

3. COLLEGE OF PHARMACY GRADUATE STUDIES COMMITTEE DECISIONS AND UPDATES

On transfer to the PhD program - on March 30th, 2015, the PGSC Reviewed supplemental regulation 5.13 - Transfer from the M.Sc. to the Ph.D. Program

- Current regulations state transfer must be completed within 18 months of start of M.Sc. and have made excellent progress in first 12 months
- Also must have completed 6 credit hours of course work in addition to any Pharmacy graduate seminar courses
- PGSC agreed to leave supplemental regulation 5.13 as is and communicate to advisors and students to ensure those interested understand the requirements

On Pharmacy graduate courses - Dr. Shawn Bugden is developing a course on Critical Appraisal and Literature Evaluation in Pharmacy for graduate students.

- On June 16th, 2015, PGSC considered the proposed course outline.
- Feedback on the proposed course outline was invited in June 2015.
- Consideration by Pharmacy College Council is pending.
- PGSC intends to propose the introduction of this course to the Faculty of Graduate Studies by the end of Fall 2015.
Faculty Awards

Outstanding Teacher 1st year
Dr. Dennis Cote, Instructor

Outstanding Teacher 2nd year
Dr. Ted Lakowski, Assistant Professor

Outstanding Teacher 3rd year
Dr. Sheryl Zelenitsky, Professor

Outstanding Teacher 4th year
Dr. Lavern Vercaigne, Professor & Associate Dean (Academic)

CPhM Awards 2015
These awards were presented during the annual Manitoba Pharmacy Conference, April 17th-19th in Winnipeg.

2015 Pharmacist of the Year
Dr. Shawn Bugden

Patient Safety Award
Jan Coates

Honorary Life Member
Dr. Keith Simons

Presented at the CSPS Conference 2015
AFPC New Investigator Research Award
Dr. Emmanuel Ho

CSPS Award of Leadership in Canadian Pharmaceutical Sciences
Dr. Neal Davies

AFPC Honoured Life Membership
Dr. Keith Simons

Other Awards
Dr. Louizos was also the recipient of the Outstanding Capstone Paper Award at the 2015 University of Florida Convocation where he completed his Doctor of Pharmacy degree

Preceptor of the Year Awards

Community Preceptor of the Year
Britt Kural

Hospital Preceptor of the Year
Mark Friesen

Pharmacy Team of the Year
St. Boniface Hospital Intensive Care Medical-Surgical Team: Giuseppe Aletta, Rob Ariano, Meghann Klowak, Travis Warner and Monica Wong

Elective Preceptor of the Year
Dr. Chris Louizos
Mrs. Irene Lewis and Dr. Roy Bilous’ Legacy

Dr. Roman (Roy) Bilous, son of the late Aphtanazia Thomas and Genevieve Bilous, passed away in Winnipeg on February 17, 2007. Roy was born in Winnipeg in 1919 and raised on Selkirk Avenue in the North End. He attended the University of Manitoba where he graduated with the Gold Medal in pharmacy in 1943, as well as the Flexon and Manitoba Pharmaceutical Association Silver Medals. In 1967, he received a Master of Science degree in Pharmacy from the University of Manitoba. He was awarded his doctorate in Pharmaceutical Chemistry from the University of Wisconsin in 1972 for a Ph.D. thesis entitled “The Determination of Liothyronine and Throxine in Dried Thyroid By Gas-Liquid Chromatography.” Dr. Bilous was hired by his former professor Dr. Dougald McDougall as a special lecturer in 1957 and in 1977 became a professor of pharmacy up until his retirement from teaching in 1987 instructing such subjects as pharmaceutics, pharmaceutical manufacturing, pharmaceutical analysis, inorganic chemistry and physical chemistry. Dr. Bilous was a local pioneering trailblazer in the generic drug manufacturing industry. He also served as acting Dean of Pharmacy from 1986 to 1987 and retired in January 1988. His sister, Irene Marie Lewis (nee BILOUS) passed away in 2013 at Burnaby General Hospital, aged 91 years. Irene was born in Okno, MB on June 12, 1921, a few hours after her twin sister, Anne. As a soloist, she won the Tudor Bowl at the 1940 Winnipeg Music Festival. Along with her two sisters (Anne and Emelie) she performed and recorded as The Bilous Sisters Trio for many years. Mrs. Lewis obtained a Bachelor of Arts degree at the University of British Columbia and she taught in the Burnaby School District for over 25 years, retiring reluctantly at age 65 fighting all the way to the British Columbia Supreme Court against mandatory retirement. (see Lewis v. Board of School Trustees, 1992 839 (BC SC)). In 2002, Irene was pleased to establish and fund the Dr. Roman (Roy) Bilous Scholarship Fund at the University of Manitoba, Faculty of Pharmacy, as well as the Dr. Roman Bilous Graduate Study Room in the Apotex centre. In recognition of her brother’s contributions to pharmacy education in Manitoba, Mrs. Lewis upon her recent passing also left a legacy of ~$600,000 from her estate bringing her total contributions to the Faculty of Pharmacy to three quarters of a million dollars to be directed to the Dr. Roman (Roy) Bilous Scholarships.
Endowment Committee

The Pharmacy Endowment Committee met on October 30, 2014 to consider the endowment requests that were submitted from Pharmacy faculty, staff and students.

Members of the committee consist of the Dean (as chair), four members from the academic staff, a member from CPhM, an undergraduate student co-stick, one graduate student, the technical support manager, and a senior support staff member. The current members are: Neal Davies (chair), Nancy Kleiman, Keith Simons, Frank Burczynski, Mike Namaka, Susan Lessard-Friesen (CPhM), Maira Ahmed (third year co-stick), Stephanie Martinez (graduate student), Pat Kopp and Cheryl Lee (recorder).

A list of the approved expenditures is included below for review.

**ENDOWMENT FUND SPENDING 2014-2015**

<table>
<thead>
<tr>
<th>REQUEST</th>
<th>REQUEST FROM</th>
<th>AMOUNT APPROVED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catastrophic Fund</td>
<td>Standing Request</td>
<td>$5,000</td>
</tr>
<tr>
<td>Summer Research Student Funding</td>
<td>Y. Gong</td>
<td>$24,000</td>
</tr>
<tr>
<td>2 Graduate Student Stipends</td>
<td>H. Anderson</td>
<td>$23,171</td>
</tr>
<tr>
<td><strong>TOTAL APPROVED</strong></td>
<td></td>
<td><strong>$52,171</strong></td>
</tr>
</tbody>
</table>

Endowment funds Ending Balance (0)
### Endowment Fund ...

**Catastrophic Research Fund**

<table>
<thead>
<tr>
<th>Year</th>
<th>Funding Provided</th>
<th>Interest In</th>
<th>Expenses</th>
<th>Amount Spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening Balance</td>
<td>28,102.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2004-05</td>
<td>5,000.00</td>
<td></td>
<td>HPLC major repair (X. Gu)</td>
<td>2,252</td>
</tr>
<tr>
<td>2005-06</td>
<td>5,000.00</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2006-07</td>
<td>5,000.00</td>
<td></td>
<td>HPLC repairs (X. Gu)</td>
<td>1,800</td>
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<tr>
<td>2007-08</td>
<td>5,000.00</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2008-09</td>
<td>5,000.00</td>
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</tr>
<tr>
<td>2009-10</td>
<td>5,000.00</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2010-11</td>
<td>5,000.00 1,725.00</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2011-12</td>
<td>5,000.00 2,961.09</td>
<td></td>
<td>Transfer to the Research and Support Fund</td>
<td>35,775</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>December 2011, Tablet Press</td>
<td>5,320</td>
</tr>
<tr>
<td>2012-13</td>
<td>5,000.00 3,781.09</td>
<td></td>
<td>HPLC</td>
<td>5,000</td>
</tr>
<tr>
<td>2013-14</td>
<td>5,000.00 2,309.64</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014-15</td>
<td>5,000.00 1,766.71</td>
<td></td>
<td>Nov./14 $10,000 towards Sorvall Lynx Centrifuge</td>
<td>10,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>May 2015 Purchase BSC hood (repair too expensive)</td>
<td>3,669</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>May 2015 Repair PCR machine (Bio-Rad Lab)</td>
<td>2,918.11</td>
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</tbody>
</table>

**Funds available**

**28,912**

**Research and Support Fund**

<table>
<thead>
<tr>
<th>Year</th>
<th>Funding Provided</th>
<th>Interest In</th>
<th>Expenses</th>
<th>Amount Spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening Balance</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011-12</td>
<td>35,775</td>
<td></td>
<td>Cryostat (HPLC Room 328)</td>
<td>27,564</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Biosafety Cabinet (Zelenitsky/Iacovides Lab)</td>
<td>8,037</td>
</tr>
<tr>
<td>2012-13</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013-14</td>
<td>0</td>
<td></td>
<td></td>
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</table>

**Funds available**

**174**

<table>
<thead>
<tr>
<th>Fund</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catastrophic Research Fund</td>
<td>28,912</td>
</tr>
<tr>
<td>Research and Support Fund</td>
<td>174</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>29,086</strong></td>
</tr>
</tbody>
</table>
Homecoming was very busy in Pharmacy this year. Our Alumni were out in full force for a variety of events hosted at the Apotex Centre and throughout Winnipeg. A special thank you to the Class of 1964 and 1974 for making us part of your 50th and 40th Reunion celebrations.

The Alumni of Distinction lecture, given by Dr. Jack Bend (Class of 1964) was attended by alumni, staff, faculty and students; a true intergenerational event. Dr. Bend’s lecture, “The Last 54 Years-from Pharmacy to Public Health Research,” had something for everyone and the reception afterwards had many lively discussions on the topics presented.

Dr. Neal Davies hosted four tables at the Homecoming Dinner and Concert with alumni from 1964 and 1974. The Manitoba Room in University Centre looked amazing and was the perfect venue for such a prestigious event. Dr. Davies also hosted a tour of the Apotex Centre as part of Homecoming. Many alumni had never seen the beautiful new building which opened in 2008.

Additionally, the Classes of 1974, 1984 and 2004 organized more personal reunion events. With pharmacy alumni spread across the entire country, reconnecting at the University of Manitoba is a pleasure. We welcomed alumni from British Columbia, Manitoba, Ontario and Quebec. If you’d like to reconnect and reminisce with your classmates during Homecoming 2015, please contact Angela Shank at 204-474-8794 or angela.shank@umanitoba.ca to arrange your own reunion with us!

Members of the Class of 1964 at the Homecoming Dinner. Left to right: Shirley Surbey, Dr. Gordon Krip, Philip Young, Dexter Boyd, Dr. Jack Bend, Barry Duncan, Barbara Cinnamon, Wayne Couling
Dr. Jack Bend: Our Alumnus of Distinction 2014

On September 19, 2014 the College of Pharmacy Outstanding Alumni Award was presented to John R. “Jack” Bend. Dr. Bend is originally from Stonewall Manitoba and is the son of R.W. “Bobby” Bend, a former Health Minister and Education Minister and one time leader of the Liberal Party of Manitoba. He is also cousins with the famous National Hockey League family the Hextalls. Rather than pursuing politics or hockey as a career Jack received a BSc.(Pharmacy) in 1964 from the University of Manitoba Faculty of Pharmacy, as well as the Manitoba Pharmaceutical Association and the University of Manitoba Gold Medals in pharmacy. He was a National Research Council of Canada Fellow and received his MSc. (Pharmaceutical Chemistry) in 1967 from the University of Manitoba, Faculty of Pharmacy. Dr. Bend was awarded a British Commonwealth Scholarship and received his Ph.D. degree in Pharmaceutical Chemistry-Drug Metabolism from the University of Sydney, Faculty of Pharmacy in Sydney, New South Wales, Australia in 1971 where he was also the Captain of the Australian Ice Hockey Team.

Dr. Bend was a scientist at the United States National Institutes of Environmental Health Sciences (NIEHS/NIH) from 1970-1986 and served as Chief of the Laboratory of Pharmacology at NIEHS from 1980-1986. He received the National Institutes of Health Directors Award in 1986. He served as an Adjunct Professor, School of Agriculture and Life Sciences, North Carolina State University, Raleigh, and School of Medicine, University of North Carolina at Chapel Hill, North Carolina. Dr. Bend was appointed Chair of the Department of Pharmacology & Toxicology in the Faculty of Medicine at University of Western Ontario in 1986 and served in this role until 2000. Dr. Bend also held the position as the Associate Dean, Research at Schulich from 1999-2007.

Dr. Bend is internationally known for research which focuses on molecular toxicology, pharmacology, and environmental toxicology, including studies of aboriginal community health risks from environmental contaminant exposure. This research includes mechanisms by which drugs, endogenous chemicals and environmental contaminants cause toxicity and contribute to the disease burden by oxidative and nitrosa-
Dr. Jack Bend: Our Alumnus of Distinction 2014

tive stress. Dr. Bend is the co-author of more than 400 peer-reviewed articles, abstracts, book chapters and proceedings describing original research findings in the areas of molecular and environmental pharmacology and toxicology. Dr. Bend’s research has been funded by the National Institutes of Health, the Medical Research Council / Canadian Institutes of Health Research and other agencies. Dr. Bend has been an advisor to more than 30 post-doctoral scholars, 15 Ph.D. students, and 10 masters students during his distinguished career.

As the co-director of the Ecosystem Health Program in the Department of Pathology, Schulich Medicine & Dentistry, he was actively involved in multi-disciplinary community based collaborative ecosystem health projects with the Walpole Island, Chippewa of the Thanes, and Oneida First Nations in Canada and Egerton University at Lake Naivasha in Kenya. He is a member of the Food and Agriculture Organization -World Health Organization Joint Expert Committee on Food Additives and the Ontario Pesticide Advisory Committee He is also a member of the Chemicals Management Plan Challenge Advisory Panel which advises Health Canada and Environment Canada with regard to the toxicity of industrial chemicals. He previously served as the President of the Society of the Toxicology of Canada and as the Chair of the Canadian Council on Animal Care.

Dr. Bend is a fellow of the Canadian Academy of Health Sciences and is currently an Associate Scientist at the Child Health Research Institute and a Distinguished University Professor Emeritus of the Departments of Pediatrics, Pathology, Physiology and Pharmacology, Schulich School of Medicine and Dentistry, Western University in London, Ontario, Canada.

Congratulations Dr. Bend. We are proud to have you as a distinguished alumnus of our pharmacy program.

Commemorative Bison, awarded annually to the Alumni of Distinction
Research

College of Pharmacy Research Report 2014-2015

Personnel
Amanda Kinnell is responsible for the administration of research grants and contract funds. Researchers are reminded to submit all grant applications to the Xiaochen Gu. Usha Pammi requires a copy of the FAAF to record the research and contract grants for the College of Pharmacy. Sara Smith will inform the researchers and graduate students of impending deadlines for submissions for scholarship and grant applications and collect research information.

College Grants


Lakowski T. “Intracellular Measurement of HDAC Inhibitors” The University of Manitoba: University Research Grants Program. One Year Term ($7500).

Lakowski T. “The mechanisms of enzymes catalyzing epigenetic post-translational modifications” Natural Sciences and Engineering Research Council (NSERC) Discovery Grants Program. Five Year Term. ($160,000).

Leong C “The Initiation of Blood Pressure Clinic for Enhancing the Educational Experiences of Pharmacy Students for Teaching Skills in Physical Assessment”. District V NABP/AACP Study Grant ($3,000).


Namaka M. “Manitoba Multiple Sclerosis Research Network”, Bayshore CareHealth Ltd. ($20,000).

Namaka M. “Creating a Centralized SCI Clinical Research Group in Manitoba”, Canadian Paraplegic Association ($32,000).

Namaka M. “Manitoba Multiple Sclerosis Research Network”. TEVA ($3,500).
Namaka M. “Regulation of Myelin Repair by Methyl CpG Binding Protein 2 (MeCP2) and Brain Derived Neurotrophic Factor (BDNF) in an Experimental Autoimmune Encephalomyelitis (EAE) Model of Multiple Sclerosis (MS)”. Canadian Paraplegic Association. ($40,000).

Wirtzfeld D, Krupka F, Grymonpre R. “Communicating When the Stakes are High: Skill Acquisition Following Participation in an Inter-Professional Crucial Conversations Course for Health Sciences Learners.” Teaching and Learning Enhancement Fund. April, 2014 – June, 2015 ($8,875).


Zelenitsky S. “Is the Recommended Cefazolin Prophylaxis Adequate in Cardiac Surgery?” Canadian Society of Hospital Pharmacists Foundation 2015/2016/2017 ($10,210).

Indirect Costs Funding
In 2014/2015, the College of Pharmacy received $25,000.00 dollar to support technical equipment maintenance personnel.

Under the Physical Plant Portion of ICP (under the Renovations and maintenance of research facilities category) $50,000 – for basement renovations.

Shared Research Equipment
In 2014/2015, the College of Pharmacy continued to support research. Equipment purchased in the reported period is listed in the following, which include shared equipment and equipment purchased from individual fund.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological containment/safety cabinet</td>
<td>$7,997.00</td>
</tr>
<tr>
<td>High Speed Sorvall Lynx Centrifuge</td>
<td>$26,877.00</td>
</tr>
<tr>
<td>Pharmaceutical preparation &amp; evaluation package</td>
<td>$5,212.00</td>
</tr>
<tr>
<td>Nanodrop and electronic pipettes</td>
<td>$21,000.00</td>
</tr>
<tr>
<td>LCMS</td>
<td>$99,380.95</td>
</tr>
<tr>
<td>PCR</td>
<td>$44,382.07</td>
</tr>
<tr>
<td>Freeze dryer</td>
<td>$29,877.00</td>
</tr>
<tr>
<td>Rotor</td>
<td>$13,520.00</td>
</tr>
<tr>
<td>Photochemical reactor kit</td>
<td>$11,609.37</td>
</tr>
</tbody>
</table>

Post-Doctoral Fellows and Research Associates
<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Post-Doctoral Fellow</th>
<th>Research Associate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Brian Hasinoff</td>
<td>Dr. Jijin Gu</td>
<td>Dr. Xing Wu</td>
</tr>
<tr>
<td>Dr. Emmanuel Ho</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr. Keith Simons</td>
<td>Dr. Ousama Rachid</td>
<td></td>
</tr>
</tbody>
</table>

Undergraduate Summer Research Program
The undergraduate summer research program is instrumental in attracting pharmacy graduates to consider graduate studies as a part of their career path. In 2014/2015, six pharmacy students participated in the undergraduate summer research program. The students and their advisors are listed in the table below.

Jessica Adria who worked in Dr. Emmanuel Ho’s lab in 2013/14 is the recipient of the 2015 GlaxoSmithKline National Summer Student Research Program Awards. Jessica Adria presented a poster and received the award at the CSPS annual confer-
Students and faculty at the CSPS Conference in Toronto
Publications
Pharmacy researchers continue to be productive in their research programs. For 2014/2015, 63 peer-reviewed publications, book or book chapters have been published or in press by the College. Faculty members submitted 97 conference abstracts or were invited to give presentations at various conferences. The publications, conference abstracts and presentations are listed below:

Publications:


Khorshid Ahmad T, Acosta C, Cortes C, Lakowski TM, Namaka M. Transcriptional Regulation of Brain Derived Neurotrophic Factor (BDNF) by Methyl CpG Binding Protein 2 (MeCP2): a Novel Mechanism for Remyelination and/or Myelin Repair Involved in the Treatment of Multiple Sclerosis (MS). Molecular Neurobiology, 2015, in press. DOI: 10.1007/s12035-014-9074-1.

Leong C, Louizos C, Currie C, Glassford L, Davies NM, Brothwell D, Renaud R. Student Perspectives of an Online Module for Teaching Physical Assessment Skills of Vital Signs for a Canadian Faculty of Dentistry, School of Dental Hygiene, and Faculty of Pharmacy on a Health Sciences Campus. Journal of Interprofessional Care 2015 Jul;29(4):383-5.


Conferences, Presentations and Abstracts:


Bugden S. Roles and Responsibilities of Council Members – Legal Accountability and Liability. College of Occupational
College of Pharmacy Research Report 2014-2015....ctd


Bugden S, Kosar L, Regier L, Jennings S. Non-Inferiority Complex: Gaining Confidence in the Appraisal of Non-Inferiority Trials. Canadian Agency for Drugs and Technologies in Health. Saskatoon, SK. Canada, April 2015.


Bugden S. Big Data and Quality Prescribing. Therapeutic Update – CPD Program, Faculty of Medicine, University of Manitoba. Winnipeg, MB. Canada. May 2014.

Bugden S. Polypharmacy: Context and Contradictions. Therapeutic Update – CPD Program, Faculty of Medicine, University of Manitoba. Winnipeg, MB. Canada. May 2014.

Bugden S. Big Data and Quality Prescribing. Therapeutic Update – CPD Program, Faculty of Medicine, University of Manitoba. Winnipeg, MB. Canada. May 2014.


Davies NM. 30 Years of Coffee, Beer and Serendipity in Pharmacy Research. Canadian Society of Pharmaceutical Sciences
Meeting Toronto, Canada May 27, 2015.


Dunford D, Kristjanson C, Renaud R. It’s More Than a Number: Analyzing a Pharmacy Clinical Course Exam To Inform Teaching and Assessment. Association of Faculties of Pharmacy of Canada Annual Conference / Canadian Pharmacy Education and Research Conference. Saskatoon, SK, Canada. May 2014.


Friesen K, Bugden S. Vaccine Controversy Vaccination. Canadian Pharmacists Association (CPhA) Annual Conference. Saskatoon, SK. June 2014.


Hamilton K, Davis C, Falk J, Singer A, Zelenitsky S, Bugden S. The Pharmacist’s Role in the Reduction of Potentially In-


Ho EA. Intravaginal Rings for the Modulation of Mucosal Immunity”. 6th Prairie Infectious Immunology Network Meeting. Hecla, MB, Canada. 2014.


Kuehl C, Zhang T, Kaminskas L, Porter C, Davies NM, Forrest L, Berkland C. Molecular Weight Affects Hyaluronic Acid


**Leong C**, Cholakis A, **Louizos C**, **Davies NM**, Brothwell D. The PreOperative Screening of Patients at a University-Affiliated Periodontal Clinic Carried Out by Pharmacy Students Trained in the Performance and Interpretation of Findings from a Physical Assessment of Vital Signs. Submitted as a poster to the American College of Clinical Pharmacy (ACCP) Annual Meeting. Austin, TX, USA. October 12 to 15, 2014.


Namaka M. Transcriptional Regulation of Brain Derived Neurotrophic Factor (BDNF) by Methyl CpG Binding Protein (MeCP2) Implications in Re-myelination and/or Myelin Repair in Multiple Sclerosis (MS) Induced Non- Traumatic Spinal Cord Injury (NTSCI). Physical Medicine & Rehabilitation Department, Medicine Conference. Winnipeg, MB. Canada. June 11, 2014. (Invited Speaker)


Renaud R, Zelenitsky S, Kristjanson C. The Effect of Repeating Undergraduate Pre-Pharmacy Core Courses on Probability of Success in a Pharmacy program: A Bayesian Network Perspective. Association of Faculties of Pharmacy of Canada Annual Conference (AFPC) / Canadian Pharmacy Education and Research Conference (CPERC), Saskatoon, SK. Canada. May 2014.


Simons K. Western Society of Allergy Asthma and Immunology, Annual Meeting. Kauai, HA. USA. January 24-February 3, 2015.


Wu X, Yalowich JC, Patel D, Hasinoff BB. Disulfiram is a Potent Inhibitor of Topoisomerase II. American Association for Cancer Research. San Diego, CA. USA. April 2014.


Yang S, Gu J, Ho EA. RNAi-based Nanomicrobicide for the Prevention of Male-to-Female Transmission of HIV. Canadian Society for Pharmaceutical Sciences / Canadian-Chapter Controlled Release Society Annual Meeting, Montreal, Quebec, CANADA. 2014. (Invited Oral Presentation) (1st Place Poster Award)