



AFPC

COMMUNICATION

Association of Faculties of Pharmacy of Canada

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is treating you well. Please always remember that we are just an email away and if you ever have questions or comments about AFPC business, we would love to connect with you.

All the best,

Kerry Mansell

AFPC President, 2014-15

PRESIDENT'S MESSAGE

Greetings everyone and welcome to the Fall edition of the AFPC newsletter. It is an exciting time for pharmacy schools across the country, as this newsletter represents the inaugural report of a few new Deans. Very exciting indeed!

AFPC has been busy as always, which is highlighted nicely in Dr. Lopatka's Executive Director's report. Given the fact we are all busy with the new school year, I will keep this brief and refrain from repeating what Harold has reported. However, I do want to make sure to mention that planning is underway for the joint AFPC-AACP conference to be held in Washington D.C. this coming July 11th – 15th, 2015 so that you can put it in your calendars now. It is going to be a fantastic opportunity to showcase our successes on a larger stage.

With that, I will end by saying that I hope you enjoy this newsletter and that the new school year



Highlights

- AFPC participation in the 2014 Canadian Pharmacists Conference considered an educational and financial success.
- Pharmacy educator peer leader network project officially launched. Lisa Bishop, Marie Rocchi and Donna Pipa appointed to leadership team.
- Peer leaders were identified from each faculty and peer leader initiation workshop held.
- Katrina Mulherin hired as project manager for Canadian experiential education project.
- AFPC agrees to join CPhA as an organizational member.

Governance

Council of Faculties voting members – The Council of Faculties voting members held their annual meeting on May 30, 2014. The main agenda items were to review committee reports, discuss the position on organizational membership in CPhA, and to finalize

commitment to hold the 2015 joint AFPC / AACP annual conference. In addition, external stakeholder consultation was held with Allan Mills from the Canadian Pharmacy Residency Board. The Executive members for the 2014/15 Council are Carla Dillon (Chair) and Tannis Jurgens (Vice Chair). The other Councillors are Marion Pearson (British Columbia), Ann Thompson (Alberta), Kerry Mansell (Saskatchewan), Silvia Alessi-Severini (Manitoba), Eric Schneider (Waterloo), Andrea Cameron (Toronto), Julie Methot (Laval), and Anne Julie Frenette (Montreal). Special thanks to Frederic Calon who completed over 2 terms as Laval Councillor. The Council's mid-year meeting will be February 4, 2015 and the annual meeting will be held in July 2015 (date to be confirmed). The following are committee chairs: Eric Schneider (education), Marion Pearson (awards), Ann Thompson (communications), and Silvia Alessi-Severini (research). Harriet Davies is the chair of PEP-C.

Council of Deans – The Council of Deans will be meeting October 5, 2014. The following are the Executive members for the 2014/15 Council of Deans; James Kehrer (Chair) and Kishor Wasan (Vice-Chair). The other members of the Council of Deans are: Michael Coughtrie (British Columbia), Neal Davies (Manitoba), Dave Edwards (Waterloo), Heather Boon (Toronto), Chantal Pharand (Montreal), Jean Lefebvre (Laval), Susan Mansour (Dalhousie), and Carlo Marra (Memorial). The Deans mid-year meeting will be held on February 6, 2015.

Board of Directors – The Board of Directors met June 1, 2014. The main agenda items were to approve revisions to the strategic plan, approve organizational membership in the new CPhA governance framework, and approve the selection of 2014/15 Board of Directors. The following are the Executive members for the 2014/15 AFPC Board of Directors - Kerry Mansell (President), Michael Coughtrie (Vice-President), and Jean Lefebvre (Treasurer). Other Directors are Dave Edwards (Past President), Ann Thompson, Silvia Alessi-Severini, Heather Boon, Anne Julie Frenette, Tannis Jurgens, and Carlo Marra. The Board's proposed meeting schedule is October 17, 2014, February 27, 2015 and June 12, 2015.

Administrative

AFPC becomes organizational member of Canadian Pharmacists Association (CPhA) – AFPC signed a memorandum of agreement to become an organizational member of the CPhA. Under this membership AFPC has a seat on the Board, a vote at the AGM, and there are benefits to individual faculty pharmacist members (including discounts on publications, conferences, CPD programs, etc.).

2014 AACP annual conference – The Executive Director attended the 2014 conference in Dallas, TX from July 26-29. The number of Canadian attendees was very low. A number of presentations about experiential education and information technology were attended as AFPC is conducting projects in these subject areas. At the conference a session was held about a draft version of the revised ACPE accreditation standards for consultation and feedback (expected use of the revised version in 2016). The consultation process and a copy of the draft standards are accessible at the following link:

<https://www.acpe-accredit.org/deans/StandardsRevision.asp>.

AFPC Website – Check the AFPC website for recent posts on the following topics: revised AFPC strategic plan, 2014 CPERC presentations, PEPLN proposal, and the 2014/15 awards booklet. Following are links to these content pages:

<http://afpc.info/mission-statement>;
<http://afpc.info/content/2014-conference-presentations>;
<http://afpc.info/content/afpc-pepln-proposal>;
<http://afpc.info/awards-2013>.

AFPC Faculty directory – We are in the process of updating the faculty directory listings. These updates are done twice yearly. Faculty members are encouraged to login to the website and add to the supplementary information about their individual education and research interests.

Programs / Services / Projects

Awards – The website content and the awards book have been updated for the launch of the 2014/15 AFPC awards program. The following table summarizes the deadlines for candidate submissions.

Submission Deadline	Student Awards	Faculty Awards
January 15, 2015	- AFPC/Canadian Foundation for Pharmacy Graduate Student Award for Pharmacy Practice Research - Merck Canada Inc. Graduate Pharmacy Fellowship Award	- AFPC New Investigator Research Award - AFPC/Pfizer Research Career Award
March 15, 2015	- AFPC Whit Matthews Graduate Student Poster Award - AFPC/Rx&D Pharmacy Student Research Poster Awards - AFPC Graduate Student Research Award	- AFPC National Award for Excellence in Education - AFPC/Janssen Award for Innovation in Education - AFPC Honored Life Membership - AFPC/Pharmacy Examining Board of Canada Award for Excellence in Research or Innovation in Assessment of Competence

Pictures of the AFPC awards banquet can be seen at <https://www.flickr.com/photos/126118835@N04/>.

Special thanks to the 2014 awards sponsors for their support. The sponsors were: Merck Canada Ltd., Rx and D, Janssen Inc., Pfizer Canada Inc., Canadian Foundation for Pharmacy, and Pharmacy Examining Board of Canada.

Canadian Pharmacy Education and Research Conference (CPERC)

– The 2014 CPERC was held at the Canadian Pharmacists Conference in partnership with the Canadian Pharmacists Association and the Pharmacists Association of Saskatchewan. The AFPC educational portion of the conference was held on May 31, 2014 and other academic pharmacy topics were integrated into the general program. There were 127 attendees from academic pharmacy. Attendees were satisfied with the program and the program was a financial success. URL links to 3 audio slide sync presentations are posted on the AFPC website (University of Saskatchewan-Aboriginal Engagement - <http://www.youtube.com/watch?v=tqX1Eh3n4oo>; UBC Pharmacy Elective on Aboriginal Health - <http://www.youtube.com/watch?v=j9wJs36n0b0>;

The Next Generation: What to Expect - <http://www.youtube.com/watch?v=nqXmxwXT0XE&feature=youtu.be>.)

Conference pictures have been posted at https://www.flickr.com/photos/cpha_aphc/.

The 2015 CPERC will be held in partnership with AACP from July 11-15, 2015 in Washington, DC. The conference will have a global theme and key topics that will be profiled are: experiential education, program evaluation / assessment, and information technology. Eric Schneider (Education committee chair) and Harold Lopatka are members of the joint planning committee.

The 2016 CPERC will be held in partnership with CSPS from May 31-June 3, 2016 in Vancouver, BC.

Pharmacy educator peer leader network (PEPLN) – Funding was received in June 2014 from Infoway to conduct a follow-up project to the Pharmacists-in-training project. The official name for the project is Pharmacy Educator Peer Leader Network. The PEPLN project will utilize a Pharmacy Educator Peer Leader Network to facilitate integration of AFPC’s “Informatics for Pharmacy Students” e-Resource into curricula.

A project leadership team has been created: Lisa Bishop (Peer leader mentor / coach), Donna Pipa (Project Manager), and Marie Rocchi (e-resource mentor / coach). Ten pharmacy educator peer leaders, one from each faculty, were appointed: Marion Pearson (UBC), Teri Charrois (UA), Jeff Taylor (US), Casey Sayre (UMAN), Kelly Grindrod (WAT), Marie Rocchi (UT), Gilles Leclerc (UMON), Martine Lepire (LAV), Kim Sponagle (DAL), and Lisa Bishop (MEM). The leadership team and peer leaders attended the initial workshop (August 22-24, 2014) where participants were provided with a detailed briefing about the project and experts provided an overview of peer leader tools and techniques. A copy of the 1st PEPLN project newsletter has been posted on the AFPC website:

<http://afpc.info/system/files/public/PEPLN%20newsletter%20-%20Sept%202014.pdf> and included in this newsletter (pp. 32-36).

Canadian experiential education project – Katrina Mulherin was hired during the summer as the project manager for this project. A project steering committee will meet, and an environmental scan of current and planned experiential education projects in Canada will be conducted. The project has 3 phases: i) action on the top 4 national priorities; ii) action on the next 6 priorities; and iii) project evaluation / assessment.

Program evaluation / assessment SIG – Two SIG’s (special interest groups) have been created: program evaluation and program assessment. The following individuals are chair-members of these groups: Ken Cor from Alberta is chair of program evaluation, Gilles Leclerc from Montreal is chair of program assessment SIG. The combined groups met in May 2014 and reviewed areas for collaboration. An initial action item for the SIG is to review existing faculty graduating student surveys and identify common outcome focused questions for universal use.

Student employment survey – The 2014 student employment survey has been completed. The following is a comparison of selected statistics over the three years the survey has been used.

Measure	2012	2013	2014
Number of participants completing survey	300	301	309
Number secured permanent or temporary full time pharmacist position	147	150	127
Number of pharmacy intern positions	71	83	63
Number in hospital pharmacy residency	51	48	29
Number unemployed as pharmacist	64	56	38
Number receiving regular salary from \$40-49.99/hour	85	87	85
Number receiving reimbursement for pharmacist professional fees	139	138	111
Number employed or expecting to be employed in community pharmacy sector*	178	245	223
Number expecting to be employed in urban setting*	NA	200	179

*Note that the questions were different in 2012 and 2013 surveys.

In the 2014 survey, changes were made in the survey design that forced graduates who were still completing their internships to answer specific questions. This change may have caused some variation in results: in 2012 and 2013, graduates still completing internships could answer questions meant for graduates who had already completed their internships.

The comparison of survey results may signal changing employment patterns for new graduates; decrease in the

number of students who secured permanent or temporary full time positions, decrease in the number of students who were in pharmacy intern positions, and decrease in the number of students in hospital pharmacy residency positions. These findings are contradictory with the result that the number of graduates who were unemployed as pharmacists decreased. A further detailed sub-analysis of the results by region is planned and will be completed by spring.

Other Activities

Pharmacist specialization needs assessment – An RFP was issued for a consultant to conduct a needs assessment on pharmacist specialization in Canada. Several consulting firms responded and one was selected to conduct the project. The project will be completed in early 2015. Anne Julie Frenette will serve as the AFPC representative on the steering committee for this project.

National patient safety consortium – Olavo Fernandes represented AFPC in discussions with the National patient safety consortium. This group is a collection of national and provincial organizations working together to accelerate the pace of patient safety improvement in Canada. Initial areas of focus include medication management, surgical care, infection prevention and control, and home care. The consortium has developed an action plan that includes education of new health

professionals. AFPC has committed to work as a member of the consortium.

AFPC / CCCEP / CCAPP task group report - The AFPC/CCCEP/CCAPP task force was established to explore whether university CPD departments could be accredited through the CCAPP process. The task group met once and members suggested status quo, namely that university CPD departments (where required) continue being accredited through CCCEP.



AFPC Executive Director

We wish to acknowledge the following sponsors supporting AFPC. Thank you for your contributions.

Rx and D

Merck

Pfizer

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Janssen

Sanofi-Aventis

Canadian Patient Safety Institute

Nycomed

Rexall

Servier

Teva

McKesson

Bristol Myer Squibb

Leo-Pharma

FACULTY SPOTLIGHT: UNIVERSITY OF WATERLOO

Waterloo's new PharmD program – What makes us unique?

The School of Pharmacy recently launched a four-year Doctor of Pharmacy (PharmD) degree, a new entry-to-practice program that provides students with a diverse range of experiential-learning opportunities.

From community service learning where students learn about and engage with social benefit organizations in order to understand better their role in serving vulnerable populations and in improving community health and wellness, to co-operative education work terms that provide practical on-the-job training from over 1200 potential employers, to patient care rotations during the 4th year of study – the experiential-learning components of Waterloo's program prepare the next generation of pharmacy graduates for an expanded role in patient care.

Beginning January 2015, students will be placed in 14 regions across Ontario for 6 months – where they will complete three eight-week patient care rotations, one in an institutional setting, a primary care setting, and in another practice setting that provides direct patient care.

Fifteen part-time Regional Clinical Coordinators (RCCs) have recently joined the Waterloo program, who have been instrumental in providing our students with 100% placements (36% Institutional sites vs 64% Primary Care

sites), in addition to providing local support for site managers and preceptors, streamlining administrative requirements to help preceptors deliver advanced training to students. Our preceptors/managers/RCCs came through in a big way for us – delivering more rotations than we needed and giving students a variety of unique learning opportunities.

Waterloo's patient care rotations are based on a community of practice model comprised of a group of healthcare professionals who share a passion for enhancing patient care and how to deliver that care in the most innovative way. This model allows students to learn how to practice more effectively as they interact regularly while also practising interprofessionally with other members of their community of practice. Their skills and abilities allow them to move seamlessly into a patient-care role under the supervision of a preceptor with little disruption of workflow.

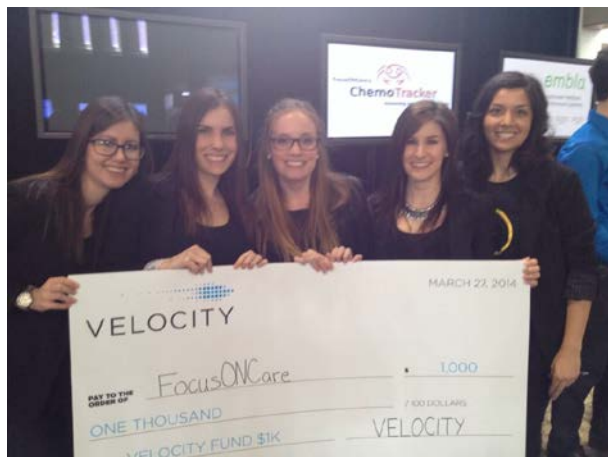
The School of Pharmacy is confident that its exceptional students will contribute meaningfully to patient care in practice sites throughout the province. Thanks to our Regional Clinical Coordinators, practice sites, preceptors, and co-op employers for joining us on this journey as we deliver cutting-edge clinical training programs to the next generation of pharmacists!



Waterloo Pharmacy students are making their mark as...

Entrepreneurs

A company founded by six Rx2014 students is aiming to improve the quality of treatment for cancer patients. Their company, FocusONCare has developed a revolutionary app, “ChemoTracker” that can track patients’ side effects and help them and their families know what to do in both common and critical situations related to cancer treatments. The group has been successfully participating in various business competitions this past year including winning \$15,000 from the Scotiabank Pharmacy Entrepreneurship Competition, best pitch at UW’s Velocity Competition and most recently a fourth place result at a Women Entrepreneurs Bootcamp.



The 5th annual Pharmasave Industrial Case Competition took place in July. Students in PHARM 350 Fundamentals of Business Administration and Management had a week to showcase their mastery of business concepts and demonstrate creativity and entrepreneurship in developing a business plan and pitch to promote new pharmacy innovations. The winning team, Caring for your Kidneys took home the \$5000 prize generously provided by Pharmasave. Their business proposal looked at the role they could play in continuous renal function monitoring with point of care devices that measure serum creatinine. With the expanded scope of practice, pharmacists can provide a point of care creatinine service for patients to assess kidney function and adjust medication dosing to prevent adverse effects. This service further demonstrates the high quality clinical care that pharmacists can provide as part of the health care team for patients.



Leaders

OPA Student of Distinction Award

RX2014 student, Sarah Johnson received the 2014 OPA Student of Distinction award at the June conference of the Ontario Pharmacists Association (OPA).

Ms. Johnson was recognized for leading several student initiatives including the establishment of a group that helps students become Certified Diabetes Educators upon graduation. While at Waterloo, Ms. Johnson has held many leadership positions including Vice President of the Waterloo Health Professions Committee and University of Waterloo Senior Representative for the Canadian Association of Pharmacy Students and Interns. She has also served on the Society of Pharmacy Students Graduation Committee, Student Co-Op Advisory Committee, Waterloo Blueprint for Pharmacy working group, and as a volunteer in the community.



The *Charlie Bayliff Memorial Award* is presented annually to a fourth year student who has demonstrated academic excellence and has accepted a position as a pharmacy resident following graduation.



Pictured l to r: Dave Knoppert (member of the award's fundraising committee), Jaskiran Otal Rx 2014, and Dave Edwards

The first *Lisa McLean Professional Practice Award* was presented in July 2014 to fourth year student, Mawusi Sosoo. The award was created in memory of Lisa McLean who worked in the School from 2008 - 2013. It recognizes a student who has demonstrated excellence in the professional practice sequence of the curriculum and active involvement in professional activities as a pharmacy student



Photo: Mawusi Sosoo Rx 2014 with Dr. Cynthia Richard

Researchers

Pharmacy PhD student wins Young Scholar Award for glaucoma research:

Ding Wen (Roger) Chen, a Pharmacy PhD student working with Dr. Marianna Foldvari, was recently awarded a "2014 Young Scholar Award" sponsored by Dove Medical Press. Roger received his award at the 12th Annual Current Issues in Medicine, Biotech and Pharma Conference hosted by Rensselaer Polytechnic Institute in Troy, New York. As part of the Young Scholar Award Ceremony session, Roger gave an oral presentation of his work entitled, "Non-invasive gene therapy for glaucoma - Current issues."

Samantha Shorthall, an MSc student received a Biophysical Student Award (in the Physical, Theoretical and Computational Chemistry Division) at the 97th Canadian Chemistry Conference and Exhibition, held in Vancouver June 1-5, 2014.

Caring Community Members

Community Action Now (CAN) is a student-run group that volunteers in the local community as health advocates, raising disease awareness, and providing humanitarian aid on both a local and global level. They

were recently recognized by the city of Kitchener for the efforts.



Photo : Graduate and undergraduate students from the School were recognized for their volunteer contributions to the local community

Showcasing pharmacy practice and medication management research: OPENing the doors to knowledge users

On October 7 and 8, the Ontario Pharmacy Research Collaboration (OPEN) (a \$5.77 million multi-institutional and interdisciplinary research program examining the quality, outcomes and value of medication management services) held its first Summit — an exciting two-day meeting in Toronto with over 100 participants. It was an interactive event with researchers giving over 33 presentations about completed and in progress research findings and knowledge users providing their perspective through panels and discussions on the applicability of the results to practice and policy. A wide variety of knowledge users participated including pharmacists, Ministry of Health and Long-Term Care, OPA, OCP, CPhA, Neighbourhood Pharmacy Association of Canada, Shoppers Drug Mart, Rexall PharmPlus, ONPharm, and healthcare researchers and professionals. The high level of engagement and openness greatly helped the OPEN team more thoroughly explore their results and take OPEN's research to the next level. To learn more about OPEN and its 2014 Summit, please visit www.open-pharmacy-research.ca and www.open-pharmacy-research.ca/events/2014-summit.

School News

Appointments and Promotions

We are pleased to welcome **Stephanie Chiu** as the Experiential Coordinator for the PharmD Bridging Program. Stephanie comes to the School from her previous position as a clinical pharmacist with the University Health Network in Toronto.

Samantha Yau joined the School in June as the new Experiential Coordinator / Instructor for the 4th year rotations. Samantha brings with her a wealth of experience from St. Joseph's Healthcare where she acted as the Pharmacy Manager - Quality & Education and Pharmacotherapy Specialist - General Internal Medicine.

Congratulations to **Nancy Waite** (Full Professor) and **Andrea Edginton** (Associate Professor, Pharmaceutical Science) on their recent academic promotions.

PharmD Bridging Program

The School's new PharmD Bridging Program is set to launch in January 2015. This part-time distance education program is open only to Waterloo Pharmacy graduates. It will begin with an initial group of 64 students who will each have up to 3 years to complete the program and earn their degree. For more information, refer to the School's website at: <https://uwaterloo.ca/pharmacy/degrees-and-professional-development/pharmd-bridging-program-frequently-asked-questions>.

Continuing Professional Development

The School of Pharmacy is expanding its offerings in continuing professional development (CPD). Work is underway on several new CPD courses intended for pharmacists and other health professionals. Interprofessional collaboration is a focus of several of these projects, which include partnerships with organizations such as the Dietitians of Canada. Further information to follow at:

<https://uwaterloo.ca/pharmacy/degrees-and-professional-development/distance-education-continuing-professional-development>.

Grants and Awards

Kelly Grindrod was awarded the 2014 Wellspring Leadership Award. She received a Canadian Institutes of Health Research Planning and Dissemination Grant (\$10,000) for "Semantic interoperability of exchanged information on a regional electronic health record that is used by an expanded circle of care which includes social supports and community services." As well as a grant from the Office of the Privacy Commissioner Contributions Fund (\$50,000) for "The reliability of security options for mobile health applications designed for use with older adults with chronic disease."

Colleen Maxwell is the Principal Investigator on a 3-year study entitled "Exploring frailty and its role in the assessment of high risk medications and risk for poor health outcomes in vulnerable populations" and funded for \$430,803 by the Canadian Institutes of Health Research. She is also a co-Investigator on a CIHR grant (\$180,000) led by Dr Suzanne Tyas of the University of Waterloo School of Public Health and Health Systems to study "Early-life factors and later-life cognitive resilience: Linking evidence across a lifetime".

Praveen P Nekkar Rao received a MITACS-Accelerate award (\$15,000) from MITACS Canada to work on an industrial project with Cyclica Inc. with MSc candidate, Gary Tin.

Carlos Rojas-Fernandez received a (\$75,000) grant from Bristol-Myers Squibb for the project, "Use of oral anticoagulant medications in long-term care retirement living."

Roderick Slavcev was awarded a HRSDC Career Focus Grant (\$68,000) for Pharmacy Strategic Management.

Presentations

Kelly Grindrod: Bridging the digital health divide: helping older users with mobile health technologies. Stanford Medicine X. Palo Alto, CA. Sept 4-7, 2014.

Nardine Nakhla: Access to Non-prescription Medications in Canada; FIP conference Bangkok, Thailand. September 2, 2014.

Praveen P N Rao , Gary T, Mohamed T : “Design, synthesis and biological evaluation of novel phenothiazines: dual cholinesterase, amyloid aggregation inhibitors with antioxidant properties”. 97th Canadian Chemistry Conference and Exhibition (CSC 2014), Quebec 2014

Anson Tang: “Politics and policy-making in Canada’s drug review process: The role of Avastin funding in Ontario in shaping the pan-Canadian Oncology Drug Review.” Canadian Association for Health Services and Policy Research (CAHSPR) Conference, Toronto. May 14, 2014.

Nancy Waite, Eric Schneider, Feng Chang, and Rosemary Killeen presented at the Canadian Pharmacists Conference 2014 / Association of Faculties of Pharmacy of Canada Annual General Meeting, Saskatoon, SK, May 31–June 3, 2014.

- Killeen K, Waite N, Schneider E. “Developing a Recognition of Prior Learning (RPL) process for implementation in a PharmD bridging program.”
- Sergeant O, Wenger L, Schneider E, Waite N. “Patient perspectives on pharmacists as immunizers: A scoping review.”
- Johnson S, Waite NM, Schneider E. “Pharmacy students as immunizers: Review and policy recommendations.”
- Chang F, Cook KM, Cooke M, McCarthy L, Sproule B, Waite N. “Developing and implementing more inclusive demographic survey questions.”
- Winslade NE, Fernandes OA, Vercaigne L, Waite NM, Dillon CM, Pharand CC, Leonard P. “Integrating CPSI’s safety competencies into undergraduate health professions programs: A comparison of five Canadian faculties of pharmacy.”

Tejal Patel, Feng Chang, Nancy Waite and colleagues presented “Capturing the perspectives of policy makers, physicians and pharmacists about the evaluation of pharmacy services.” Trillium Primary Health Care Research Day, Toronto, ON, May 28, 2014.

Publications

Grindrod KA, Gates A, Dolovich L, Slavcev R, Drimmie R, Aghaei B, Poon C, Khan S, Lead S. ClereMed: Lessons learned from a pilot study of a mobile screening tool to identify and support adults who have difficulty with medication labels. JMIR mHealth uHealth 2014; 2(3):e35.

Houle S, Grindrod K, Chatterly T, Tsuyuki RT. Paying pharmacists for patient care: A systematic review of remunerated pharmacy clinical care services. Can Pharm J 2014; 147:209-232.

Patterson J.N., K. Cousteils, J.E. Manning Fox, P.E. MacDonald, J.W. Joseph (2014). Mitochondrial metabolism of pyruvate is essential for regulating glucose-stimulated insulin secretion. Keystone: Islet and β -cell Biology/Diabetes. Keystone, Colorado, USA, Abstract 2008.

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maintaining normal glucose homeostasis and β -cell mass. 5th Muscle Health Awareness Day, York University, abstract.

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Rojas-Fernandez C., Chen, Y. Use of ultra-low-dose (≤ 6 mg) doxepin for treatment of insomnia in older people. Canadian Pharmacists Journal. 2014 147:281. doi:10.1177/1715163514543856.

Rojas-Fernandez C., Seymour N, Brown, Susan G. Helping pharmacists to reduce fall risk in long-term care: A clinical tool to facilitate the medication review process. Canadian Pharmacists Journal. 2014 May; 7:171. doi:10.1177/1715163514529706.

Leat, S., Ahrens, K., Krishnamoorthy, A., Gold, D., Rojas-Fernandez C. The legibility of prescription medication labelling in Canada: Moving from pharmacy-centred to patient-centred labels. Canadian Pharmacists Journal. 2014 May; 147:179. doi 10.1177/1715163514530094.

Sum, C., Wettig, S. and R.A. Slavcev. 2014. DNA Vector Influence on Non-Viral Gene Therapeutic Safety and Efficacy. Currents in Gene Therapy (Epub ahead of print)

Nafissi, N., Alqawlaq, S., Lee, E., Spagnuolo, P., Foldvari, M. and R.A. Slavcev. 2014. Ministring DNA: Highly Safe and Effective DNA Transgene Delivery Vectors. Molecular Therapy Nucleic Acids 3: e165.

FACULTY NEWS

UNIVERSITY OF ALBERTA

New appointments

The faculty would like to extend a warm welcome to the following people:

Tara Leslie was hired to coordinate the experiential courses within the post-professional PharmD program during Sheila Walter's maternity leave. Tara received her Bachelor of Science in Pharmacy (BSP) from the University of Saskatchewan in 1997. In 2010, she obtained her Board Certification in Oncology (BCOP) from the Board of Pharmacy Specialties. Tara is going to continue with the experiential education team at the faculty in a part-time capacity after Sheila returns. Tara is also contributing to the oncology modules within the BScPharm and PharmD programs.

Lisa Tate has joined the Faculty as a Lab Facilitator with our Practice Skills program. Lisa will help with preparing materials for the lab, and will also support students and Skills Lab Coordinators with student assessment. In addition

to working with the faculty, Lisa is a clinical pharmacist with the St. Alberta Primary Care Network and the Misericordia hospital.

Theresia Williams, BA, BEd, MEd, has joined the faculty as a Project Manager for the Entry-to-Practice PharmD program. She is currently completing her Doctorate in Social Sciences. She teaches for 3 post-secondary institutions including the U of A and has an extensive background in adult education, adult learning and development. Her project work in community and academic work is numerous and eclectic and includes everything from sexual assault response protocols for RCMP/Crown Prosecutors to Post Baccalaureate certificate programs for Foreign Professors teaching in English in Higher Education. Theresia has background and passion in labour studies and workplace issues, and publishes in these areas as well as adult education.

Grants, Publications and Awards

Dr. Rene Breault had the following paper published: Breault RR, Korn DE, George-Phillips KL. Evaluation of the Impact of a Physical Assessment Course on the Practice of Institutional Pharmacists. *Pharmacy* 2014; 2(3):248-259.

Dr. Ann Thompson had the following publication: McAlister FA, Majumdar SR, Padwal RS, Fradette M, **Thompson A**, Buck B, Dean N, Bakal JA, Tsuyuki R, Grover SA, Shuaib A. Case

management for blood pressure and lipid level control after minor stroke: PREVENTION randomized controlled trial. *CMAJ* 2014;186:577-84.

Dr. Raimar Loebenberg received the Faculty Award of Merit for 2013.

Dr. Ann Thompson received the Practitioner Award from CSHP, Alberta Branch.

General Faculty News

Entry-to-Practice Doctor of Pharmacy Program

Planning for the entry-to-practice PharmD program has continued over the past few months. The program goals, objectives and design elements were circulated to all faculty as well as external stakeholders, including preceptors, for consultation and feedback. Feedback was incorporated, and after New Curriculum Development Steering Committee approval, a final version was approved at Faculty Council in September. The Steering Committee has also approved 4 faculty-led Working Groups to commence work on the details of the curriculum. The 4 Working Groups are: (1) Experiential Education, (2) Practice Skills, (3) Pharmaceutical Sciences and Therapeutics and (4) Social, Behaviour and Administration. Each group is planning their inaugural meeting in the near future. Theresia Williams, our project manager, will participate in each working group and support the preparation of our new program submission to the university.

New Skills Lab at the Faculty

This September the University of Alberta opened their new Pharmacy Skills Lab in a beautifully refurbished space. The large area allows for more students to be in the lab at the same time, which expands the ability for instructors to develop engaging interactions and activities. The space consists of a model dispensary, 16 patient interview rooms, and 10 group work space areas for up to 8 students. In addition, the control room allows course instructors to monitor each of the interview rooms, and control all video-recording within each interview room. This technology allows all interactions to be recorded, and for lab facilitators and unit coordinators to watch the videos on a secure server at a later time, to review material for both formative and summative feedback. The students, course coordinators and lab facilitators are all excited to use the space in new and innovative ways to help improve their skill development.



Photos of the new Pharmacy Skills Lab

UNIVERSITY OF BRITISH COLUMBIA

NGX Interactive Places in Top International Award – 2014 Summit Creative Award for UBC Pharmaceutical Sciences' Story of Medicines



Photo credit: Ema Peter Photography

Out of more than 5,000 submissions from 24 countries NGX Interactive is named a Silver winner in the 2014 Summit Creative Award® competition for its creative work for the Faculty of Pharmaceutical Sciences at the University of British Columbia (UBC), under the category of Education Institution Interactive Media. The Summit Creative Award (SCA) recognizes and celebrates the creative achievements of small and medium sized advertising agencies worldwide with annual billings under \$30 million. Celebrating its 20th year, the SCA has firmly established itself as the premier arbiter of creative excellence for firms of this size and has become a coveted honour. For more visit <http://pharmacy.ubc.ca/aboutus/faculty-news/NGX-Interactive-Places-in-2014-Summit-Creative-Award-for-UBC-Pharmaceutical-Sciences-Story-of-Medicines>.

Videos produced by UBC pharmacy students place in Canadian Society of Hospital Pharmacists competition

Two videos produced by students from the Faculty of Pharmaceutical Sciences at UBC placed in three separate award categories as part of the Canadian Society of Hospital Pharmacists (CSHP) 2015 Pharmacy Student Competition 2013. Esther Chan, Adam Smylie and Cindy Pan won in the Patient Impact Awards category for their video “A Typical Day ... For a Typical Pharmacist.” The video also earned a Members’ Choice Award, in which CSHP members voted for their favourite entry online. Students Aliya Daulat, Sahar Moafi, Anna Judson and Tim Jame placed in the Runner-Up category for their entry. For more visit:

UBC pharmacy graduates win Apotex Inc. Future British Columbia Leader Award

Recent graduates of the University of British Columbia’s Faculty of Pharmaceutical Sciences, Dawei Ji and Aaron Sihota are the recipients of the 2014 Apotex Inc. Future British Columbia Leader Award, presented by the BC Pharmacy Association (BCPhA).

Endowed by Apotex Inc., this award assists with the expenses for undergraduate students to attend the annual BCPhA conference. Consideration is given to students with good academic standing who demonstrate leadership skills, involvement in student affairs, and commitment to community service. The award is made on the recommendation of UBC’s Faculty of Pharmaceutical Sciences. For more visit <http://pharmacy.ubc.ca/aboutus/faculty-news/UBC-pharmacy-graduates-win-Apotex-Inc-Future-British-Columbia-Leader-Award>

Three B.C. pharmacists win UBC Pharmaceutical Sciences Practice Educator Awards

Dr. Anna Evans, Dave Corman, and Ajit Johal – preceptor pharmacists based in B.C. – are recipients of UBC Pharmaceutical Sciences Practice Educator Awards for the Entry-to-Practice BSc Pharm program. For more visit <http://pharmacy.ubc.ca/aboutus/faculty-news/Three-BC-pharmacists-win-UBC-Pharmaceutical-Sciences-Practice-Educator-Awards>.

<http://www.pharmacy.ubc.ca/aboutus/faculty-news/Videos-produced-by-UBC-pharmacy-students-place-in-Canadian-Society-of-Hospital-Pharmacists-competition>



Dr. David Fielding receives Pharmacy Examining Board of Canada Award

Dr. David Fielding, professor at UBC Pharmaceutical Sciences, is the recipient of the 2014 Pharmacy Examining Board of Canada (PEBC) Award for Excellence in Research or Innovation in Assessment of Competence for his career-long work in the evaluation of educational programs. The PEBC Award for Excellence in Research or Innovation in Assessment of Competence is presented to an active member of the Association of Faculties of Pharmacy of Canada who has demonstrated excellence in the area of assessment of competence in the field of pharmacy. Winners must show contribution to the development in the area of assessments through innovative work in conducting research, seminars, workshops, conferences, committees, or publications. For more visit <http://pharmacy.ubc.ca/aboutus/faculty-news/Dr-David-Fielding-receives-Pharmacy-Examining-Board-of-Canada-Award>.

Faculty Hosts Inaugural Alumni Research Symposium



On September 26, 2014, the Faculty of Pharmaceutical Sciences hosted a new event dedicated to profiling the research accomplishments of some of its most distinguished alumni. Titled “Agents of Change Research Symposium: The Global Impact of UBC Pharm Sci Alumni,” the full-day symposium showcased the impact UBC Pharmaceutical Sciences alumni have made in the world of pharmaceuticals, medical science and patient care. For more visit <http://www.pharmacy.ubc.ca/aboutus/faculty-news/ubc-pharmaceutical-sciences-to-host-inaugural-alumni-research-symposium>.

Promotions and Appointments

Marion Pearson Promoted to Professor of Teaching

Marion Pearson is a long-standing faculty member and director of the Entry-to-Practice Program at the Faculty of Pharmaceutical Sciences. Recently, Marion was promoted to the rank of Professor of Teaching. This is the highest academic rank for teaching at UBC and recognizes teaching excellence and outstanding achievement in educational leadership. Marion’s promotion is also significant in that she is the very first UBC Pharm Sci faculty member to hold this position in the history of the Faculty. Moreover, she is 1 of 17 faculty members at UBC who have achieved this rank since it became available in 2011.

Introducing Drs. Mark Harrison and Star Li

UBC Pharm Sci is pleased to introduce and welcome two new faculty members. Dr. Mark Harrison, assistant professor, was recently appointed to the Professorship in Sustainable Health Care. Dr. Harrison officially began on August 11, 2014. Dr. Shyh-Dar (Star) Li was appointed into the tenure track position of associate professor, Nanomedicine, Pharmaceutics & Biopharmaceutics on August 1, 2014. This is a new role within UBC Pharmaceutical Sciences created to enhance research in drug delivery technologies as well as provide specialized training experiences for students.

Publications Update

<http://www.pharmacy.ubc.ca/aboutus/publications>.

Ensom MHH, Decarie D. Stability of Extemporaneously-Compounded Dexamethasone in Glass and Plastic Bottles and Plastic Syringes. Can J Hosp Pharm. 2014;67:274-9.

Ensom MHH, Decarie D. Stability of Extemporaneously-Compounded Clonidine in Glass and Plastic Bottles and Plastic Syringes. Can J Hosp Pharm. 2014;67:308-10

Collier AC, Yamauchi Y, Sato BL, Rougee LR, Ward MA. UDP-glucuronosyltransferase (Ugt) 1a Enzymes are Present and Active in the Mouse Blastocyst. Drug Metab Dispos. 2014 Sep 8. pii: dmd.114.059766.

Awards & Honours Update

<http://www.pharmacy.ubc.ca/aboutus/awards-honours>.

Sahan Ranamukhaarachchi - \$6,000 Canada Graduate Scholarships – Michael Smith Foreign Study Supplements (CGS-MSFSS) award.

Vongai Nyamandi - 3 year Canadian Diabetes Association Doctoral Student Research Award.

Christian Buchwalder - UBC Four Year Doctoral Fellowship.

DALHOUSIE UNIVERSITY

Retirement of Professor Rita Caldwell, Director College of Pharmacy



Professor Rita Caldwell completed her 16 years as Director at the College of Pharmacy on June 30, 2014. A *Retirement Celebration* hosted by the College was held to honor Professor Caldwell on Monday, June 9, 2014, at the Canadian Forces Base Stadacona. Family, friends and colleagues gathered from around the Maritime provinces and Ontario. Tributes were presented by the Dean of the Faculty of Health Professions, members of pharmacy community and faculty and staff. Dr. Wayne Hindmarsh, Executive Director of the Canadian Council for Accreditation of Pharmacy Programs concluded the formal part of the celebration by presenting a toast in Professor Caldwell's honor.

During her tenure as Director, Professor Caldwell had a huge impact at the College and on the pharmacy profession, both locally and nationally. Professor Caldwell led the College through several successful accreditation visits, directed the development and implementation of a Master of Science in Pharmaceutical Sciences program and initiated an annual White Coat Ceremony to welcome first year students to the College and to the profession of pharmacy. Professor Caldwell was a strong advocate for students and worked closely with them in a variety of capacities – always ensuring that they had a voice and that any concerns were addressed. On a national level, Professor Caldwell was an active member of the Association of Deans of Pharmacy of Canada and served as the academic representation on the Canadian Pharmacists Association Board of Directors. In keeping with Professor Caldwell's generous nature, in lieu of any personal recognition on her retirement, she invited anyone wishing to make

donations to do so to the Karen Zed Spirit of Community Pharmacy Award - in memory of a close friend and pharmacy colleague. Professor Caldwell is currently enjoying spending time with her grandchildren and pursuing her passion for travel.



Professor Susan Mansour, new Director of the College of Pharmacy



The College of Pharmacy is pleased to announce that our new Director Professor **Susan Mansour**, assumed her role July 1, 2014. Susan is a double Dalhousie alumnus, with a BSc(Pharm) from the College and a MBA. She has been a faculty member since 1992, most recently as Associate Director, Undergraduate Education, and has maintained a part-time practice as a community pharmacist. Susan has held many leadership roles at the national level, including President of AFPC and CCAPP. She also chaired the CCAPP committee responsible for developing new *Accreditation Standards for the First Professional Degree in Pharmacy Programs*, which addresses both the BSc Pharmacy and Doctor of Pharmacy degree programs. Professor Mansour was the driving force behind the development and maintenance of the College's problem-based learning (PBL) curriculum and is currently leading the transition to the new Doctor of Pharmacy (PharmD) degree program. Welcome Susan!

Other Appointments

Dr. Emily Black joined the College in September 2014 as an Assistant Professor. Dr. Black completed a BSc(Pharm) at Dalhousie University, a residency through Dalhousie University and Capital Health, and a PharmD at the University of British Columbia. Dr. Black has worked at Qatar University as an Assistant Professor for the past 3 years, with a clinical cross-appointment to the Infectious Disease team at Hamad General Hospital in Doha, Qatar. Dr. Black will be coordinating and teaching therapeutics in the second year undergraduate curriculum at Dalhousie University. Her areas of research interest include pharmacy practice, pharmacy education, and infectious disease.

Dr Meghan MacKenzie begins her career as an Assistant Professor, with a joint appointment between the College of Pharmacy, Dalhousie and Capital District Health Authority (CDHA). Meghan is a Dalhousie College of Pharmacy graduate and completed her Pharmacy Residency through Dalhousie University and CDHA. Following graduation, Meghan worked in Ontario for Shoppers Drug Mart as well as The Ottawa Hospital. She recently completed a PharmD at UBC. Meghan's position at CDHA is Clinical Coordinator of the Critical Care and Emergency Department Pharmacy groups and she will pursue research in Critical Care. At the College, she will teach in the Respiratory, Gastrointestinal, Liver and Seizures blocks. Originally from Cape Breton, Meghan is thrilled to be back in her second home, Halifax.

Awards and Grants

Director Rita Caldwell was awarded the AFPC Woods-Hughes Special Service Award at the 5th Annual CPERC conference, June 2014, in recognition of her many contributions to AFPC.

Prof. Susan Mansour was one of 4 recipients of the Dalhousie University 2014 Rosemary Gill Award for outstanding service to students. The award was presented at a reception hosted by Dr Richard Florizone, President of Dalhousie, on Thursday June 12, 2014.

Visitors and other Events

Dr. Margaret C. Watson PhD MSc BSc (Hons) MRPharmS from Leverhulme International Academic Fellow, Centre of Academic Primary Care, University of Aberdeen visited the College of Pharmacy June 18, 2014 and presented a seminar titled Knowledge Translation for Community Pharmacy Practice: Promoting Evidence Based Practice for Minor Ailments as part of the IMPART seminar series.

This August, the Dalhousie College of Pharmacy, under the direction of **Ms Harriet Davies**, hosted a pilot pharmacy student research exchange with Robert Gordon University in Aberdeen, Scotland. Vijay Thiruppugazh and Danielle Doherty both 4th year M.Pharm students from Robert Gordon University were matched with **Dr. Remi Agu's** lab and the "More than Meds" research teams of **Dr. Andrea Murphy** and **Dr. David Gardner**. The students spent two weeks assisting the research teams; presented to faculty, staff and students on Pharmacy Education in Scotland; networking with Dal summer pharmacy students and enjoying the sunny summer weather in Halifax.

Dal College of Pharmacy also welcomed RGU School of Pharmacy and Life Sciences Head of School **Professor Donald Cairns** to campus on August 14-15, 2014. The Dal College of Pharmacy hopes to sustain and build on the relationships developed with RGU as we work to develop a new Doctor of Pharmacy degree and develop future capacity to offer international exchanges as part of the new experiential education curriculum.



Dr. Ingrid Sketris was a collaborator in the following CIHR funded grant CIHR: Partnerships for Health System Improvement (PHSI). *Advice Seeking Networks in Long Term Care*. Estabrooks, C.A. (PI), (PKUs): Cook, H., McLeod, D., (Co-PIs): Baumbusch, J., Doupe, M., Keefe, J., Wagg, A., (Co-As): Berta, W., Cranley, L., Cummings, G., Dearing, J., Ginsburg, L., Knopp-Sihota, J., McGregor, M., Norton, P., Profetto-McGrath, J., Reid, C., Squires, J., Teare, G., Thompson, G., (KUs): Anderson, C., Anderson, M., Bloemink, K., Boudreau, D., Collins, M., Dacombe Dewar, L., Davidson, H., Dill, D., Forbes, H., Lamont, L., Mansell, L., McBain, K., Risling, E., Schalm, C., Taylor, D., Trinidad, G., (Collab): Compton, G., Hall, J., Hayduk, L., Lai, V., Leach, T., MacDougall, A., Maissey, S., Nicklin W., Schutz, M., Senthilselvan, A., **Sketris, I.**, Waddleton, D. (Jun 2014 to May 2017)

Dr. Ingrid Sketris was one of this year's recipients of the Canadian Foundation for Pharmacy's Wellspring Award, an award designed to foster personal leadership development in pharmacy. This award allows Ingrid to attend the Leadership and Management Certificate program at the American College of Clinical Pharmacy in April 2015.

Dr Jennifer Isenor was funded through a CIHR Canadian Immunization Research Network Grant. "*Canadian Immunization Research Network*". Halperin S, Andrew M, Bettinger J, Bolotin S, Brisson M, Coleman B, Crowcroft N, De Serres G, De Wals P, Deeks S, Dube E, Fisman D, Hatchette T, **Isenor J**, Kwong J, Langley J, Loeb M, MacDonald H, Mahmud S, McNeil S, Naus M, Ogilvie G, Quach-Thanh C, Scheifele D, Skowronski D, Top K, Van Buynder P, Vaudry W, Ward B, Watts T, Wilson K, Wilson S.

Publications

Jackson, L., Buxton, J., Dingwell, J., Dykeman, M., Gahagan, J., Gallant, K., Karabanow, J., Kirkland, S., LeVangie, D., **Sketris, I.**, Gossop, M., Davison, C. Improving psychosocial health and employment outcomes for individuals receiving methadone treatment: A realist synthesis of what makes interventions work. *BMC Psychology* 2014, 2:26 doi:10.1186/s40359-014-0026-3.

Dormuth CR, Filion KB, Paterson JM, James MT, Teare GF, Raymond CB, Rahme E, Tamim H, Lipscombe L; Higher potency statins and the risk of new diabetes: multicentre, observational study of administrative databases. Canadian Network for Observational Drug Effect Studies (CNODES) Investigators, **Sketris, I.** *BMJ*. 2014 May 29;348:g3244. doi: 10.1136/bmj.g3244.

Filion KB, Chateau D, Targownik LE, Gershon A, Durand M, Tamim H, Teare GF, Ravani P, Ernst P, Dormuth CR; Proton pump inhibitors and the risk of hospitalisation for community-acquired pneumonia: replicated cohort studies with meta-analysis. CNODES Investigators, **Sketris, I.** *Gut*. 2014 Apr;63(4):552-8. doi: 10.1136/gutjnl-2013-304738. Epub 2013 Jul 15.

Dr. Ingrid Sketris was one of the expert panelists on the recently released study "*Optimizing Scopes of Practice: New Models of Care for a New Health Care System*" from the Canadian Academy of Health Sciences.

Jurgens T, Whelan AM. Can green tea preparations help with weight loss? *CJP* 2014;147(3):1-2.

Jurgens T, Whelan AM, Szwarc H. Bioidentical Hormones for Menopause-related Vasomotor Symptoms. Capital Health, Nova Scotia. 2014. Patient brochure; 8 panels.

Student News

Heather Blundon, MSc (Pharmaceutical Sciences) (supervisor: **Dr Kerry Goralski**) received the "First Place Poster Presentation Award" in the Masters-level poster presentation category at the Integrated Health Research Training Partnership (IH RTP) Graduate Student Research Day on May 13th, 2014. Graduate students in all areas of the Faculty of Health Professions were involved in this event. The poster was titled "Development of vascular smooth muscle cell models for investigating the role of chemerin/ CMKLR1 signaling in atherosclerosis".

UNIVERSITÉ LAVAL

General Faculty News

Creation of the Pierre-Perrault Fund in Humanitarian pharmacy

The Pierre-Perrault Fund in Humanitarian pharmacy: Providing grants to pharmacy students interested in aiding disadvantaged communities locally and abroad.

Last May, as part of the ceremony for the “Cercle du Doyen de la Faculté de pharmacie” (*The dean’s circle*), the dean, Dr. Jean Lefebvre, announced the creation of the Pierre-Perrault Fund in Humanitarian pharmacy, thanks to a major donation of 100 000 \$ from fellow pharmacist Pierre Perrault (graduated 1990). This grant will offer financial support to pharmacy students who wish to provide humanitarian assistance to a disadvantaged community in Quebec, Canada or abroad.

Doctor of Pharmacy (Pharm.D.) Bridging Program

Laval’s Faculty of Pharmacy was proud to announce in August the introduction of the “Diplôme d’études supérieures spécialisées (DESS) en pratique pharmaceutique de première ligne - passerelle pour obtenir le grade de DOCTEUR EN PHARMACIE par cumul de diplômes” (*Graduate Studies Diploma in Primary Care Pharmacy Practice to obtain the degree of Doctor of Pharmacy by cumulative degree*) This program was launched to help pharmacists who graduated with a bachelor’s degree in pharmacy, obtain

the grade of Doctor in pharmacy (Pharm D). The first course of the program was offered in September 2014 with great interest from our alumni. Developed in conjunction with the Faculty of Pharmacy of the Université de Montréal, this program will be officially launched this fall.

Promotions

Congratulations to Drs. Sophie Lauzier and Line Guénette who were recently promoted to assistant professor with tenure.

The class of 2018

Laval’s Faculty of Pharmacy was proud to welcome the 192 new students who were admitted in our entry-level PharmD program last August 29th. These students were selected amongst 1902 candidates who applied for admission. Our traditional “Soirée des sarraus” (*White coat ceremony*) was held on September 23rd at the *Théâtre de la Cité universitaire* to officially kick off the year. This ceremony, funded by Uniprix, was as solemn as inspiring for our “Class of 2018” and their parents. Through these events, the future pharmacists were able to meet and socialize with staff members and faculties who will accompany them during their formative years.

News from our Master’s degree in Advanced Pharmacotherapy (hospital pharmacy)

Twenty-six residents completed their Master’s degree in Advanced Pharmacotherapy in Mid-August while a new cohort of thirty residents began the same program last May. The latter underwent their first clinical training in hospital last September.

Awards and Grants

Two professors from the Faculty stand out at the Evening of Diamonds CHU Quebec

The first edition of the “Evening of Diamonds” was held to honor staff at Quebec’s health university center (*CHU Quebec*) who have deployed prodigious efforts to shape care and services tailored to users’ needs. During the evening, Faculty members Dr. Michel Dorval and Dr. Pierre Gagnon had their work recognized.

Dr. Dorval and his team were nominated in the category of Innovation and Evaluation for Implementing the ROSE Center which was established in order to meet the needs of people with a genetic predisposition to breast cancer.

Dr. Gagnon was nominated in the category Clinical Research for development of a specific intervention, tailored to the Quebec population, to help improve the quality of life and overall existence for patients with non-metastatic cancer.



Photo : Carol Rancourt, Servier Canada, Dr. Julie Methot, *Director – M.Sc. Program in Advanced Pharmacotherapy*, Sarah Grenier, Catherine Bergeron, Jean-Philippe Michaud, Isabelle Roy, Joanie Turcotte and Jean Lefebvre, Dean of the Faculty of Pharmacy.

Dr. Michel Dorval and the ROSE Center, winners of the tribute to social innovations

The Centre ROSE - Resource Centre oncogenetics for support and education for families at risk of breast cancer and its scientific director, Dr. Michel Dorval, who is also a professor at the Faculty of Pharmacy, were named winners of the tribute to social innovations from Laval University.

Stephanie Mercier, winner in 2014 of Merit Interprofessional Council of Quebec (CIQ)

Stephanie Mercier, pharmacist and lecturer at our faculty is the recipient of the 2014 Merit Quebec Interprofessional Council (QIC). This award is presented annually to a member whose accomplishments have had an impact on the development of the profession in keeping with its values and professional system.

The "Fonds de recherche du Québec-Santé (FRQ-S)" (*Quebec's research fund in Health*) has granted a career award (Clinical Research Scholars-Junior 1) and the SQHA Jacques-de- Champlain bursary to Dr. Line Guénette for her research program on medication adherence among individuals with type 2 diabetes.

Frank Zongo, a PhD pharmacist and Assistant Professor at University of Ouagadougou, Burkina Fasso, received a grant from the "Programme canadien des bourses de la Francophonie" (*Canadian grant program in French-speaking countries*) for a one year fellowship with Drs.

Sophie Lauzier and Line Guénette at the Chair on adherence to treatments.

A member of Dr. Frederic Calon's team, Philippe Bourassa, was recently awarded a 6000 \$ "Bourse de biopharmacie et pharmacométrie" from the "Réseau Québécois de recherche sur le médicament" (*Quebec's research network on medication*).

Dr. Frédéric Calon and his research team have been awarded a one-year 45 000\$ grant from the Parkinson Society of Canada. The research project entitled "Can exercise and omega-3 fatty acids synergize to restore DA neurons in PD?" aims to investigate whether combining a good diet with plenty of omega-3 fatty acids synergized with exercise can reverse dopaminergic denervation in animal models. If their hypothesis is right, this would suggest that omega-3s and exercise could exert a preventive effect in Parkinson's disease.

Milène Vandal, also from Dr. Frédéric Calon's team, recently discovered that the administration of a single dose of insulin reverses the increase in brain soluble A β and behavioral impairments generated by months of high-fat diet intake in mice. These data highlight the potential of correcting insulin signaling defects as a promising therapeutic tool to treat A β -related symptoms of Alzheimer's disease. Milène's paper was published in the prestigious journal *Diabetes*.

Annual Faculty Golf Tournament - 2014 Edition

The Faculty of Pharmacy held its 19th edition of the annual golf tournament at the Lorette Golf club on September 8th under the patronage of Mr. Eric Lepage, Head of Pharmacy department at the Institut de santé mentale de Québec and faculty alumni member. The event helped raise 33 000 \$ for the Teaching and Research Fund.



Photo : Yves Bourget, President-general director of Fondation de l'Université Laval, Dr. Jean Lefebvre, dean, Sarah Paris-Robidas, FER scholarship and Éric Lepage, honorary president .

Student News

Pharmaide raises over \$ 12,000 for Pharmacists Without Borders Canada

Pharmaide is the pharmacy students' committee that raises funds for Pharmacists Without Borders-Canada to support their mission in Haiti. This year's fundraising event in the form of a fashion show raised 12 331 \$.

FRQ-S' 2014-2015 Scholarships

Six students from the Faculty of Pharmacy have received funding from the Fonds de recherche du Québec-Santé (FRQ-S) for the 2014-2015 year. Congratulations to the recipients listed below with the titles of their research projects:

Doctoral Training

Audrey Auclair. Impact of a training program on changes in body composition, strength and muscular endurance, the insulin-resistance profile, variability in heart rate as well as the structure and function heart between 3 and 6 months following either a biliopancreatic diversion with duodenal switch or a parietal gastrectomy.

Carlotta Lunghi. Depression among patients with type 2 diabetes in Quebec: effect on adherence to diabetes treatment.

Catherine Girouard. Quality of the treatment of heart failure in elderly patients and impact on health outcomes.

Training Masters

Valerie Brousseau. Glucuronidation and sulfation of 24S-hydroxycholesterol: Metabolic inactivation and influences LXR.

Louis Gauthier-Landry. FXR: a new drug target in the treatment of prostate cancer.

Audrey Grenier. Rosiglitazone affects the distribution of adipose tissue without affecting heart rate variability in patients with type 2 diabetes with coronary bypass.

Oral presentation of research projects (Master's degree in advanced pharmacotherapy)

The oral presentations of research projects took place on May 23rd for the 2014-2015 graduating class of students in advanced pharmacotherapy. Spectators were treated to outstanding presentations and the judges did not have it easy.

Thanks to our partner, Servier and its representative, Mr. Carol Rancourt, three prizes were awarded to the best presentations:

First prize: Jean-Philippe Michaud and Isabelle Roy (St-Francois d'Assise and CHUL) for the "Description of the determinants of drug risk of falls in hospitalized elderly fell clients. (Christine Hudon, Annie Langlais and Danielle Laurin)"

Second prize: Joanie Turcotte (IUCPQ) for the "Description of the onset of stroke and cancer patients with renal failure patients in the pre-dialysis clinic of the IUCPQ. (Isabelle Cloutier and Chantale Simard)"

Third prize: Catherine Bergeron and Sarah Grenier (Hôpital de l'Enfant-Jésus) for "Clinical and economic impacts of the implementation of disposable insulin pens. (Martin Parent, Vicky Gélinas and Jean-Pierre Grégoire)"

UNIVERSITY OF MANITOBA

Faculty News

On June 5th we held our Welcome to the Profession Ceremony that awarded Bachelor of Science (Pharmacy) degrees to 50 students.



Photo : The Class of 2014 in their personalized White Coats

At our Faculty Council meeting in June we passed the motion to proceed with a PharmD Program, both an entry level and an after degree.

This September we had a very successful Homecoming in Pharmacy. We hosted reunions for the Class of 1964, 1974, 1984 and 2004.

Appointments

The College of Pharmacy hired two new Tenure Track Assistant Professors, effective August 1, 2014. Dr. I fan Kuo and Dr. Casey Sayre will be welcome additions to Pharmacy Education at the U of Manitoba.

Dr. Silvia Alessi-Severini was selected as a member of the Canadian Drug Expert Committee (CDEC). CDEC is an advisory body to CADTH composed of individuals with expertise in drug therapy, drug evaluation and drug utilization, and public members.

Grants

Dr. Mike Namaka received a \$40,000 grant from the CPA for his project "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)."

Dr. Mike Namaka and co-investigators Drs. Karen Ethans, Robert Bard and Alan Casey received a \$32,000 grant from the Canadian Paraplegic Association for the project entitled "Creating a Centralized Spinal Cord Injury Clinical Research Group in Manitoba".

Dr. Geoff Tranmer received a grant from the Dr. Paul H. T. Thorlakson Foundation Fund. This grant will support his research project "Development and Application of Hypoxia-activated Prodrugs of Topoisomerase I Inhibitors" and is valued at \$30,000.

Dr. Christine Leong received a District V NABP/AACP Study Grant in the amount of \$3,000 to go towards their project, "The Initiation of Blood Pressure Clinic for Enhancing the Educational Experiences of Pharmacy Students for Teaching Skills in Physical Assessment".

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Appointments and Promotions

New Dean – Dr. Carlo Marra

Dr. Carlo Marra has been appointed Dean of Memorial's School of Pharmacy effective June 1, 2014.

Dr. Marra joins Memorial from the University of British Columbia, where he served as a professor in the Faculty of Pharmaceutical Sciences and as director of the Collaboration for Outcomes Research and Evaluation (CORE).

After completing a bachelor of science in pharmacy at UBC, Dr. Marra received a doctor of pharmacy, and a doctor of philosophy in health care and epidemiology both also from UBC. Additionally, Dr. Marra completed a post-doctoral fellowship at the Arthritis Research Centre of Canada in Arthritis Epidemiology and Pharmacoepidemiology.

During his career, Dr. Marra has received numerous awards including those from the Michael Smith Foundation for Health Research, International Society of Quality of Life Research, Canadian Arthritis Network, Medical Research Council of Canada,

Arthritis Society, and the Social Sciences and Humanities Research Council of Canada.

Dr. Marra's research has mainly focused on health economics, quality of life research and pharmacoepidemiology. He has been published in more than 100 peer-reviewed articles and more than 100 other publications as well as presented at nearly 100 conferences.



Dr. Lisa Bishop was appointed as Director of the entry to practice Doctor of Pharmacy (PharmD) program from April 1, 2014 to March 31, 2017.

Dr. Justin Peddle was appointed Assistant Professor from July 21, 2014 until July 20, 2017.

Dr. Lisa Bishop has been granted tenure and promoted to Associate Professor, effective September 1, 2014.

Dr. Laurie Twells has been granted tenure, effective on September 1, 2014.

Dr. Carlo Marra has been appointed an Associate Editor for Arthritis Care and Therapy for the Canadian Pharmacists Journal.

Dr. Lisa Bishop is a Peer Leader with PEPLN (Pharmacy Education Peer Leader Network).

General School News

The consultation phase of Memorial's upcoming entry-to-practice doctor of pharmacy (PharmD) program began in June, with a faculty and staff retreat. Throughout the summer and fall, Dr. Lisa Bishop (program director), Dr. Carlo Marra (dean) and Dr. Carla Dillon (associate dean, undergraduate studies) have been meeting with various community pharmacy organizations, government, pharmacists and current and prospective students, outlining the plan for the program's development and accepting questions and input from key stakeholders.

The School of Pharmacy is undergoing a strategic planning initiative. In July, Dr. Carlo Marra launched a two-day retreat for faculty, staff and invited guests from the Pharmacists Association of Newfoundland and Labrador (PANL), the Newfoundland and Labrador Pharmacy Board (NLPB), and the Newfoundland and Labrador Centre for Health Information (NLCHI). Working with a facilitator, the plan will be posted on School of Pharmacy website (www.mun.ca) later this fall.

The sixth annual School of Pharmacy Golf Tournament, held on August 14, 2014, was a success, raising \$26,050 towards student scholarships and awards.

Several faculty members served on the Canadian Society of Hospital Pharmacists Newfoundland Branch planning committee, to implement the Summer Educational Sessions, from August 9-12 in St. John's. The event has not been held in Newfoundland and Labrador since 2003. Dr. Tiffany Lee and Dr. Justin Peddle (co-chairs), along with Drs. Amy Clarke, Erin Davis, and Jason Kielly were vital to the event's planning and implementation.

The 2014 Annual Report is available online at www.munpharmacy2014.ca

Individual Faculty News

Drs. Amy Clarke, Terri Genge, and Tiffany Lee received their PharmD designation from Idaho State University, the University of Toronto, and the University of Colorado (respectively, in 2014).

Dr. Noriko Daneshtalab co-chaired the Canadian Society for Pharmaceutical Science (CSPS)'s poster competition from June 10-13, 2014.

Dr. John Hawboldt received the Hospital Pharmacist of the Year Award at the 2014 Pharmacists Association of Newfoundland and Labrador (PANL) Annual Conference.

Dr. Jason Kielly received the Alfred Dawe Distinguished Service Award at the 2014 PANL Annual Conference.

Dr. Carlo Marra participated in the annual Memorial University's "I Love MUNDays" campaign by serving pancakes at a fundraiser for the MUN food bank.



Two Pharmacy Matters events were held in September, to provide stakeholders with the opportunity to provide input and ask questions on the developing entry to practice doctor of pharmacy (PharmD) program, which the School of Pharmacy hopes will be implemented in the fall 2017 semester. Two events were held – one for pharmacists on September 9, and one for current and prospective pharmacy students on September 15. The pharmacists' event was webcast live with an accompanying Twitter feed, which allowed off-site attendees to participate in the event. The webcast is archived online and can be viewed at: <https://www.youtube.com/watch?v=b7OA6mtRRpg>

The 2014 Scholarships and Awards Night took place on Thursday, September 11, 2014.

Grants and Awards

Dr. Lisa Bishop and co-investigator Dr. Stephen Darcy received \$10,000 for the Janus Research Grant from the College of Family Physicians of Canada for the project "A Community-Based Participatory Research Project Addressing Youth Mental Health and Addictions in a Small Urban Community: Research That Matters".

Dr. Lisa Bishop also received a \$6000 grant from the Community Development fund from Eastern Health, for "Community Theatre-Based Program to Engage Youth in Discussion on Mental Health and Substance Abuse." The project is a partnership between community boards, junior high schools and medical clinics.

Dr. J.M. Gamble and Dr. Stephanie Young are recipients of a Canadian Institute for Health Research (CIHR) Rapid Funding for Drug Safety and Effectiveness Targeted Research grant for, "Newfoundland and Labrador CNODES Demonstration Project". The project's objective is to assess the feasibility of integrating the Newfoundland and Labrador site into the Canadian Network for Observational Drug Effect Studies (CNODES), and to support the development of health research capacity for observational drug safety and effectiveness studies in this province.

Dr. Twells spent three days in Labrador hosting a successful CIHR-funded Café Scientifique in May on Infant Nutrition in Labrador. She also presented on the topic at Grand Rounds, and in conjunction, received Cross-Campus Initiative funding to hold a roundtable discussion on the Infant Nutrition in Labrador challenges. All events were well-attended.

Publications and Presentations

Drs. Debbie Kelly, Leslie Phillips, and Stephanie Young's paper, "Patient attitudes regarding the role of the pharmacist and interest in expanded pharmacist services" was published in the Canadian Pharmacists Journal (CPJ), issue 147 (4).

Dr. John Weber presented, "Methodologies and limitations in the analysis of potential neuroprotective compounds derived from natural products" at the meeting of the European Society of Translational Medicine in Vienna, Austria, on September 22.

Dr. Laurie Twells spoke at the International Federation of Surgery for Obesity and Metabolic Related Diseases conference in Montreal from August 26-29, on "Bariatric Surgery Research in Newfoundland and Labrador."

Student News

Ph.D. student Matthew Lamont is the recipient of a George Hatcher Memorial Scholarship. This prestigious scholarship, provided by Memorial University, is valued at \$15,000.

The CAPSI CIBC Run for the Cure team raised just under \$4000 towards breast cancer research on Sunday, October 5, 2014. They also received the Post-Secondary Team Challenge Award – a recognition bestowed on the post-secondary team who raises the most funds.

Major Visitors

Mr. John Shaske, owner and operator of Howe Sound Pharmacy in Gibsons, British Columbia will visit the School of Pharmacy on October 20 to discuss "Running a profitable pharmacy in times of expanded scope". The talk is open to all students, faculty and staff.

UNIVERSITY OF SASKATCHEWAN

General College News

MEDICATION ASSESSMENT CENTRE GRAND OPENING

The Medication Assessment Centre (MAC) officially opened in September 2014. One of only two programs of its kind in Canada, the center provides comprehensive medication assessments to any patients who may benefit. "This is truly a significant addition to our College, the University, and the Province," noted Dean Wasan, "It demonstrates a national leadership role in the education of pharmacy professionals while optimizing the health of our people and our communities."

The College was delighted to welcome MLAs Paul Merriman and Rob Norris, Dean of Medicine Preston Smith, and Ivan Muzychka, AVP Communications.

Also in attendance were representatives from Advancement and Community Engagement, Health Sciences Library, Pharmacy practitioner-partners, faculty, staff, and students.



Left to right: Eric Landry (MAC Manager), Ivan Muzychka, Rob Norris, Kish Wasan, Paul Merriman, and Derek Jorgenson (MAC Director).

NEW INTERNAL FUNDS

College of Pharmacy and Nutrition Dean Emeritus Research Trust Fund

A new trust fund in support of research and other innovative initiatives is being established in honour of past deans of Pharmacy and Nutrition. We have already received \$100,000 and will launch the *Pharmacists and Dietitians Celebration Tour*, a new campaign to raise additional dollars over the next year.

A big thank you to the former deans who have agreed to sit on the fund's advisory board: former Pharmacy and Nutrition deans **Bruce Schnell**, **Jim Blackburn**, **Dennis Gorecki**, and **David Hill**; former Dean and U of S Alumnus **Frank Abbott**; and former Acting Dean **Wayne Riggs**, both from the Faculty of Pharmaceutical Sciences, UBC.

New Pharmacy and Nutrition Student Scholarships

The *Dana Karlson Award in Pharmacy* will provide financial assistance and recognize a 4th year student in the BSP for his/her interest in Pharmacy ownership, entrepreneurial promise, and social and interpersonal skills that extend beyond the pharmaceutical industry. The annual \$3,000 award will be disbursed for three years, on behalf of **Dana Karlson** ('97 Graduate), pharmacy owner in Battleford, Cut Knife, and Turtleford. Thank you Dana!

Medicine Shoppe Pharmacy – U of S Campus Scholarship will reward academic achievement and recognize volunteerism and commitment to community service of a 4th year BSc in Pharmacy student. The annual \$500 scholarship has been put in place by **Carla Guedo** ('05 Graduate) owner of the Medicine Shoppe located in Place Riel. Thank you Carla!

Individual Faculty News

Dr. Phyllis Paterson, professor of Nutrition was profiled on Global News Saskatchewan on the role of nutrition in the rehabilitation process of stroke patients. See [full story](#).

Dr. Fred Remillard provided his expertise to CBC radio on the dangers of date rape drugs. See [full story](#).

iCo Therapeutics recently announced positive Oral Amphotericin B study results from a technology developed by **Drs. Kishor Wasan and Ellen Wasan**. See [full story](#).

Dr. Anas El-Aneed received the 2014 Provost's College Award for Outstanding Teaching.

Dr. David Blackburn is reappointed as Chair in Patient Adherence to Drug Therapy and Director of the Saskatchewan Drug Utilization and Outcomes Research Team, with more than \$600,000 in financial support from AstraZeneca Canada, Pfizer Canada, Merck Canada, and the Ministry of Health. David was also highlighted as [Researcher of the Month in September](#).

Kishor "Stilts" Wasan participated in this fall's Kinspin to raise much-needed funding for the College of Kinesiology's Special Needs programs.

Dean Wasan and **Associate Dean Academic Yvonne Shevchuk** took the ALS Ice Bucket Challenge in front of faculty and students (photos). View the [video](#)!



Recent Events

College Welcome, Vision and Implementation – On September 24, **Dean Wasan** presented a College-wide address to a full house of faculty, staff, and graduate students.

The Annual Dobson BBQ and Huskie game was held on September 19 for faculty and staff to cheer on the Football Huskies. Thank you to **Jo and Roy Dobson**.

22nd Annual Pharmacy Professional Enhancement Day (PED) took place on Sept. 25th. A presentation was given by **Dean Wasan** to over 150 participants addressing issues related to the future of healthcare. Watch for the Nutrition PED in the New Year.

The 10th Annual Pharmacy White Coat Ceremony welcomes Year 1 pharmacy students to the College and the profession of pharmacy. The event was held on Sunday, October 26, 2014 in the Health Sciences Building. The keynote address was given by Julia Bareham.

Run for the Cure – faculty and staff supported our CAPSI students again this year with the Breast Cancer Fundraiser, held October 5. Way to go everyone!

Light the Night – Also on October 5, staff and friends supported the mission of the Leukemia & Lymphoma Society of Canada to honour the memory of Bev Allen.

Open House – On October 3, 11 am - 2:30 pm, the College hosted a recruitment fair-style come-and-go outside the Apotex lab (E2130) for high school students, parents, and counsellors. Visitors had the opportunity to learn about our programs, meet current students, tour the Apotex pharmacy skills lab, and play a fun Nutrition food-facts game.

Saskatchewan Public Health Nutrition Research Network Symposium: *Integrating Research, Policy and Practice* – October 16-17. This symposium provided an overview of public health nutrition and

The 4th annual Western Canadian Medicinal Chemistry Workshop was held on campus Sept. 26-28. The workshop attracted 50 participants from the pharmaceutical sciences. **Drs. Ed Krol and David Palmer** are the organizers of the biennial event. Funding for the WCMCW is provided by SHRF, NSERC, GSK, Merck, Gilead Alberta, K'Prime Technologies, U of S PRISM Centre, and the Biological and Medicinal Chemistry Division of the Canadian Society for Chemistry.



David Palmer (far left), Ed Krol (far right), and GSK WCMCW poster award winners: Natasha Vetter, Erin Fenton, Katherina Levedeba, Leah McGurn, and VVM Bharathikumar

presented perspectives from the audience on priorities and directions in research, policy, and practice.

The Simpson Lecture was held on October 16 in the Leslie and Irene Dubé Theatre, Health Sciences E-wing. Dr. Tim Green spoke on mandatory folic acid fortification in Canada and a reception followed.

Nutrition 25th Anniversary – On Oct. 17th, a reception for SHR preceptors and College faculty and staff was held at Louis' Loft to mark the 25 years since the Division of Nutrition and Dietetics joined the College. A celebration of the anniversary will take place in RQHR in the spring.

Pharmacy Career Fair – organized by the Student and Employment Career Centre, the fair was held on Saturday, October 18 at TCU Place from 11 am to 2 pm.

Grants

Analysis of Membrane Protein Clustering in Lymphocytes as a Putative Biomarker of Therapeutic Efficacy in Mood Disorders – Dr. Hector Carucho (Pharmacy) received a SHRF Establishment Grant (\$120,000) for his work on biomarkers of depression.

Wuskiwi-tan! Let's Move! Aging Well in a Northern Saskatchewan Métis Community – Health sciences researchers, including co-investigator **Dr. Hassan Vatanparast** (Nutrition) were recently awarded a \$1.2 million CIHR operating grant to evaluate effectiveness of Aboriginal healthy aging initiatives.

Surgery Quality Outcome Reports (SQORs): Low-cost Evaluation and Spread of a Surgery Outcomes Improvement Program – researchers at UBC and co-investigator **Dr. David Blackburn** (Pharmacy) were awarded a \$390,000 CIHR Partnerships for Health System Improvement grant.

Imaging Gene Delivery Nanoparticles Targeted to Melanoma – Dr. Ildiko Badea (Pharmacy) and colleagues were recently awarded a \$200,000 research grant from the Sylvia Fedoruk Canadian Centre for Nuclear Innovation to develop and track the targeted delivery of drugs using nuclear imaging.

Novel Treatment for Leber Congenital Amaurosis – Dr. Kishor Wasan and his UBC colleagues were awarded a \$236,000 research grant from the Foundation Fighting Blindness of Canada to test a new compound against eye defects.

Drs. Carol Henry and Gord Zello are working with Dr. Bert Vandenberg, Plant Sciences and colleagues at BRAC University in Bangladesh on a [diet-based solution](#) to iron deficiency. This work recently received \$120,000 seed funding from Grand Challenges Canada. See [full story](#).

UNIVERSITY OF TORONTO

Best pharmacy program in Canada

For the third year in a row, the University of Toronto's Pharmacy and Pharmacology programs have been named the best programs of their kind in Canada, and ranked the 16th in the world by the QS World University Rankings.

Citing academic reputation, employer reputation, faculty-student ratio, and citations per faculty, among other categories, the QS World University Rankings attempt to provide a broad overview of Universities and programs to identify their overall excellence. In the Pharmacy category, the University of Toronto (U of T) appeared alongside the University of California, San Francisco at 16th overall, and was the lone Canadian school in the top 20.

Since the QS World University Rankings began for the Pharmacy subject area in 2012, the U of T has consistently ranked as the leading institution in Canada and among the top 20 in the world.

PharmD for Pharmacists

This summer, the Faculty introduced a new program designed to meet the changing needs of today's pharmacists. Flexible and customizable, the PharmD for Pharmacists program combines course work and

experiential learning to build on the knowledge and skills acquired through Bachelors' degrees (or equivalent) in Pharmacy and experiences in practice to obtain a Doctor of Pharmacy degree from the U of T.

Course work in pharmacotherapy, critical appraisal, physical assessment, pharmacokinetics, educational theories and health systems, provides participants with the foundation needed to advance their practice and embrace the changing scope of pharmacy in Canada. These cutting-edge courses will be delivered in a variety of formats, including online lectures, online facilitated discussions, case-based learning, problem-based learning, independent project work, onsite didactic classes, and small group discussion. Advanced experiential rotations will help develop and enhance practice skills and provide exposure to different areas of practice.

Participants in the PharmD for Pharmacists program work at their own pace by adjusting course loads each term, over a maximum of four (4) years. Students are able to customize this program by selecting courses that are of interest to them and matter to their practice setting. Application deadlines: January 2015 intake - October 15, 2014; September 2015 intake - May 15, 2015. For more information, visit <http://pharmacy.utoronto.ca/pharmdforpharmacists>.

Appointments

New Dean

Following a global decanal search, the University of Toronto announced the appointment of Professor Heather Boon as Dean of the Leslie Dan Faculty of Pharmacy, effective July 1, 2014. Dr. Boon will hold this appointment for a five-year term.

Dr. Boon is a licensed pharmacist, and holds cross-appointments with the Department of Family and Community Medicine and the Department of Health Policy, Management and Evaluation in the Faculty of Medicine at the University of Toronto.

A graduate of the Faculty's Bachelor of Science in Pharmacy and PhD programs, Professor Boon has been an active member of the Faculty since 2001. Over that time, she has developed a robust research program and instructed a large complement of graduate students, postdoctoral fellows, and undergraduate summer research students. Focusing on the safety and efficacy of natural health products, and related regulatory and policy issues, her research has been supported by the Canadian Institutes of Health Research, the Social Sciences and Humanities Research Council, the

SickKids Foundation, the Lotte and John Hecht Memorial Foundation, and the National Centres of Excellence program, among others. Through this research, Professor Boon has published more than 130 peer-reviewed articles, as well as numerous book chapters, policy reports, and textbooks.

During the 2013-2014 academic year, Professor Boon served as Interim Dean for the Faculty. Prior to assuming this role, she was Associate Dean, Graduate Education, where she was responsible for overseeing the Faculty's Master's and Doctoral programs. During her term as Associate Dean, Dr. Boon successfully grew these programs, enhanced the graduate student experience, and brought fiscal sustainability to the graduate department. Throughout her career, Professor Boon has held key administrative roles both at the Faculty and in a variety of national and international associations and organizations. Through these experiences, she has developed strong operational skills, demonstrated an ability to build productive relationships with students, faculty members, administrators, and key stakeholders, and cultivated a highly collaborative leadership style.

Other Appointments and Promotions

Associate Professor Beth Sproule is Associate Dean, Professional Programs from July 1, 2014 through December 31, 2014 while Assistant Professor Lalitha Raman-Wilms is on leave. Dr. Sproule has previously served in senior administrative positions at the Faculty, including Director, Pharmacy Practice Division and Interim Associate Dean, Professional Programs.

Assistant Professor Heather Kertland is Interim Director of the Pharmacy Practice Division until December 31, 2014. Dr. Kertland brings a great deal of leadership experience to this role, having previously served the Faculty in this capacity.

Professor Christine Allen is Associate Dean, Graduate Education until June 30, 2015, continuing in this role from her appointment as Interim Associate Dean, Graduate Education for 2013-2014. Dr. Allen has previously served in senior administrative positions at the Faculty, including Associate Dean, Academic.

Associate Professor and Canada Research Chair in Functional Architecture of Signal Transduction Complexes Stephane Angers has agreed to continue as Graduate Coordinator in the Graduate Department of Pharmaceutical Sciences until June 30, 2015.

Dr. Suzanne Cadarette was recently promoted to Associate Professor and granted tenure. Dr. Cadarette is a pharmacoepidemiologist and health services researcher focused in the areas of osteoporosis, methodologic innovations in pharmacoepidemiology, and the expanded scope of pharmacy practice. She holds a BSc from U of Waterloo, MSc and PhD degrees from the U of T, and a Postdoctoral Fellowship from Harvard University and Brigham and Women's Hospital in Boston. Since joining the Faculty in 2008, Dr. Cadarette has established an exceptional research program, supported by a wide network of collaborators and award winning graduate / undergraduate student researchers, resulting in over 30 peer-reviewed publications supported by grants from Canadian Institutes of Health Research (CIHR), U of T, and the Ontario government.

Dr. Carolyn Cummins was recently promoted to Associate Professor and granted tenure. She is a gifted researcher in the field of nuclear hormone receptors in the context of cholesterol homeostasis and diabetes. Since joining the Faculty in 2007, she has built a robust multidisciplinary research program and has been extremely successful attracting external funding from Natural Sciences and Engineering Research Council of Canada (NSERC), CIHR, the Heart and Stroke Foundation of Canada, and U of T. She has received numerous awards for research and teaching, and was recognized with the Professor of the Year award for 2013-2014. She holds a BSc from McGill University, a PhD from the University of California San Francisco, and completed a Postdoctoral Fellowship at the University of Texas Southwestern Medical Centre in Dallas. Dr. Cummins' interdisciplinary research combines the tools of molecular biology, physiology, and analytical chemistry to study the molecular mechanisms and physiology of nuclear receptor activation in human health and disease. Using state-of-the-art analytical instrumentation and advanced molecular, cellular, and biological tools, she researches the mechanisms of regulation nuclear receptors in metabolic diseases such as diabetes and obesity.

After 24 years, Senior Lecturer Debra Moy has left the Faculty at the end of June. Debra had a solid connection with students and had forged strong relationships with faculty and staff. She played an important role in several curriculum transitions, including creating Medication Therapy Management modules that are part of the new PharmD program. As well, she was very active at the administrative levels of both the University and the Faculty, serving in a number of roles including UTFA Council Representative, Vice Chair of the

Faculty Council, and on many committees and working groups. As mentioned, Debra had a good rapport with students, serving as Faculty Advisor within the House program, and is the recipient of four Excellence in Teaching awards. The Faculty wishes Debra well as she moves on to new, exciting professional challenges.

Two Tenure Stream Assistant Professor Positions October 14, 2014

The Faculty is looking to fill two new Assistant Professor positions in the Biomolecular Sciences Division. These tenure stream positions will begin July 1, 2015. Successful applicants will be nominated for a Tier II Canada Research Chair. Candidates for these positions must have a PhD or equivalent, a record of demonstrated excellent in teaching and research, and a well developed research plan and teaching philosophy. Postdoctoral experience or equivalent is not a requirement, but is preferable.

The successful candidates will be expected to establish a vibrant, independent, and entirely externally funded program of research, supervise research trainees at all levels (including graduate students), and make significant contributions to teaching at the graduate and undergraduate levels. Applications should include a cover letter, curriculum vitae, 2-3 page statement of research plans, and a statement of teaching philosophy and interests. A complete job description and portal to apply can be accessed at <https://utoronto.taleo.net/careersection/10050/jobdetail.ftl?job=1402063>. In addition to the online application, applicants should also ask three referees to send reference letters directly to the Faculty via diana.becevello@utoronto.ca.

Funding News

Professor Shirley X.Y. Wu and Professor Jeffrey Henderson, along with Professor A.M. Rauth at the Ontario Cancer Institute, recently received a 5-year operating grant from CIHR to engineer novel transformable nanoparticles for targeted drug delivery to brain cancer cells.

Associate Professor Carolyn Cummins is the recent recipient of a NSERC Discovery Grant. Dr. Cummins will utilize state-of-the-art sequencing methodology to determine for the first time whether nuclear receptor activation impacts alternative splicing at a genome-wide level, and the potential to explore mechanisms through which alternative splicing can be modified by drugs.

Professor Christine Allen and Professor Raymond Reilly, along with Dr. Srikala Sridhar from Princess Margaret Hospital, are the recipients of a four-year operating grant from CIHR for the development of a powerful new nanotechnology for the treatment of HER2+ breast cancer. Using a targeted polymeric nanotechnology that has been engineered to deliver radiotherapeutic and chemotherapeutic agents specifically to trastuzumab resistant HER2+ breast cancer cells, exploiting the specific cellular properties of the cells to deliver powerful medications only to affected cells, leaving normal cells untouched.

Dean Heather Boon is part of a team of researchers led by Principal Investigators Sunita Vohra and Liana Urichuk at the University of Alberta that recently received a CIHR Partnerships for Health System Improvement grant. This project will see the implementation of an active surveillance program to identify serious natural health products adverse events in mental health clinics. Working with patients in participating clinics, the investigators will identify concurrent natural health product and prescription medication use, and the presence or absence of adverse events. From there, the researchers will partner with other pharmaceutical scientists to investigate the mechanism of action for these natural health products to better understand these interactions and their effects.

Professor Ping Lee is the recent recipient of a 5-year NSERC Discovery Grant to explore the evolution of supersaturation generation from solid solutions of poorly soluble drugs based on glassy hydrogels. Through this study, Professor Lee and his team will investigate the evolution of supersaturation generated from solid solutions of poorly soluble drugs in crosslinked hydrogels and the underlying mechanisms governing the stabilization of the entrapped amorphous drug in such hydrogels in the solid state. Dr. Lee hopes to establish criteria to effectively inhibit the crystallization of loaded drug in glassy hydrogels, and identify an optimal supersaturation rate that maximizes the AUC of the kinetic solubility concentration-time profile.

Awards & Recognition

Professor Shana Kelley was recognized by The Globe and Mail as one of their Innovators at Work. Designed to recognize talented people from across Canada who not only have great ideas but also turn them into reality through their drive and actions, Dr. Kelley was recognized for her development of a molecular diagnostic platform designed to provide test results for patients on site within 20 minutes.

Xagenic Inc., the company founded by Professor Kelley to commercialize this diagnostic platform, was recently recognized with the 2014 North America Frost & Sullivan Award for Product Innovation Leadership. The unique, low-cost, simple system provides rapid diagnosis that gives comparable results to current technology at a fraction of the time and cost.

Two faculty members and one graduate student were recognized with awards at this year's AFPC Annual Conference:

Professor Anna Taddio received the AFPC-Pfizer Research Career Award for the outstanding caliber of her research over her career. In addition to her role at the Faculty, Professor Taddio is a Senior Associate Scientist at The Hospital for Sick Children and Assistant Scientific Staff at Mount Sinai Hospital. Her research program focuses on the short- and long-term effects of pain in children, the effectiveness of pain management interventions, and evidence-based practice and implementation research. Over her career, Professor Taddio has authored over 150 scientific papers and book chapters, and has been recognized with a variety of awards recognizing her scholarly achievements.

Assistant Professor Shyh-Dar Li received the AFPC New Investigator Research Award. A Principal Investigator at the Ontario Institute for Cancer Research, his research focuses on developing innovative drug delivery systems to enhance cancer chemotherapy. To that end, Dr. Li and his team have created two nanoparticle drug delivery technologies that enhance tumor bioavailability, which have demonstrated enhanced efficacy and reduced toxicity compared to standard chemotherapy.

PhD student Mina Tadrous received the Canadian Foundation for Pharmacy Graduate Student Award for Pharmacy Practice Research. Working in the pharmacoepidemiology field under the supervision of Assistant Professor Suzanne Cadarette, Mina's research interests include post-market surveillance of medications and vaccines, pharmacoepidemiology, pharmacovigilance, and the application of epidemiology to studying medication safety and effectiveness.

The College of Pharmacy and Nutrition at the University of Saskatchewan recently celebrated its 100th anniversary. As part of the College of Pharmacy and Nutrition at the University of Saskatchewan's 100th anniversary celebration, the College recognized a number of outstanding alumni who have made significant contributions on a local, provincial, national, and international basis. Three members of the Leslie Dan Faculty of Pharmacy were honoured as Centennial Alumni of Influence Award winners: Dean Emeritus K. Wayne Hindmarsh, Lecturer Bill Wilson, and Della Croteau, Interprofessional Education Lead.

Publications

Professor David Hampson and his research team recently published on neurodevelopmental disorders.

1. "Gender-dependent Effects of Maternal Immune Activation on the Behaviour of Mouse Offspring" in *PLOS ONE*. This researches whether disturbances to the mother's immune system during pregnancy play a role in the development of autism spectrum disorders, and, if so, what impact this had on male and female offspring.
2. "Reduced Phenotypic Severity Following Adeno-Associated Virus Mediated Fmr1 Gene Delivery in Fragile X Mice," in *Neuropsychopharmacology*. This study researches whether restoring Fragile X Mental Retardation Protein (FMRP) expression in the central nervous system could provide a more comprehensive reversal of the disorder in animal models.

PhD student Matthew Durk and Professor K. Sandy Pang were lead and senior authors on a featured research article in the *Journal of Neuroscience*. Their study explored the role Vitamin D receptor may play in the prevention and treatment of Alzheimer's disease, and

Student News

Each year, the Faculty showcases graduate student research through the Graduate Research in Progress Symposium. It provides students in the MSc and PhD programs with an opportunity to present their research findings to faculty members, colleagues, and peers, shining the spotlight on their excellent research. This year's event featured a plenary address by Dr. Ben Neel, Director of Research at the Princess Margaret Cancer Centre, and presentations by Professor Christine Allen and Associate Professor and Director of Global Health Jillian Clare Köhler. The following students were recognized for their outstanding research. Oral Seminar Winners: Andrea Burden, Joseph Keca, Maya Latif, and Andrew Sage. Poster Winners: Dane Bergstrom, John Dong, Natasha Nanwa, and Rabindra V. Shivanarine. Poster Finalists: Jeehye Choi, Bruck Habte, Sara G. Hovakeemian, and Monika Patel.

Each summer, the Faculty's Undergraduate Summer Research Program provides undergraduate students with the opportunity to spend the summer conducting research under the supervision of a faculty member. This program allows students to explore academic research more intensely, investigate post-graduate research possibilities, and participate in groundbreaking research activities alongside graduate students, research associates, and faculty members at the top of their fields. At the end of the summer, all participants present their research findings at the Faculty's annual Undergraduate Pharmacy Summer Research Program Poster

concluded that increasing P-glycoprotein by the vitamin D receptor can slow the progression of Alzheimer's disease at early onset. As well, the project suggests that maintenance of adequate vitamin D levels in the elderly may be crucial in preventing neurodegeneration.

Professor Shirley X.Y. Wu and colleagues published "Multifunctional Albumin-MnO₂ Nanoparticles Modulate Solid Tumor Microenvironment by Attenuating Hypoxia, Acidosis, Vascular Endothelial Growth Factor and Enhance Radiation Response" in *ACS Nano*. Professor Wu's Laboratory of Advanced Pharmaceuticals and Drug Delivery has created a pharmaceutically acceptable albumin-MnO₂ nanoparticle formulation with multifunctionality in simultaneous reactive oxygen species (ROS, e.g. hydrogen peroxide) reduction, oxygen generation, and pH elevation in vitro and in solid tumor. In this paper, the team demonstrated that tiny metal oxide and protein hybrid particles, produced by nanochemistry and pharmaceuticals, impact tumor microenvironment both chemically and pharmacologically.

Presentations. The following students were recognized for their research: Theodora Bruun (Undergraduate Summer Research Program Poster Award winner), Erin Cicinelli (first runner up), and Matthew Richler, Michelle Lai, Nadia Milad, and Alice Jiangrui Xu (honourable mentions).

Two students were recognized for their research prowess at the Canadian Society for Pharmaceutical Sciences (CSPS) Annual Conference. PhD student Yannan (Nancy) Dou is the recipient of the Gattefossé Canada/CSPS Award in Lipid-Based Drug Delivery. Dou has designed and developed a novel thermosensitive liposome formulation of cisplatin (HTLC) that can provide heat-activated, site specific delivery of cisplatin to increase the concentration of the drug at the primary tumour site.

BScPharm graduate Arman Zereshkian received the GlaxoSmithKline National Summer Student Research Program Award for research he conducted last summer as a summer student in the laboratory of Dr. Raymond Reilly. Zereshkian's research centered on the treatment of acute myeloid leukemia (AML), a blood borne cancer, discovering that lower concentrations of the radioimmunoconjugate in combination with the radiosensitizer is as effective as using the higher concentration of the radioimmunoconjugate alone, revealing that this methodology has the potential to increase the effectiveness of radioimmunotherapy for AML.



Association of Faculties of Pharmacy of Canada Association des Facultés de Pharmacie du Canada

PEPLN News

Pharmacy Educator Peer Leader Network (PEPLN)

September 2014

Volume 1

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Welcome

WELCOME to the 1st edition of the PEPLN Newsletter. PEPLN is a new initiative launched by AFPC in partnership with Canada Health Infoway (Infoway). This quarterly newsletter will provide you with updates on project progress as well as keep you informed of the exciting integration projects being undertaken in each faculty.

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Project Overview

Building on the success of the AFPC & Infoway Pharmacists in Training project¹, the PEPLN project will utilize a Pharmacy Educator Peer Leader Network to facilitate integration of AFPC's "Informatics for Pharmacy Students" e-Resource into curricula with a focus on key objectives related to Consumer Health, including:

- To build awareness and achieve a state of readiness to enable the integration of Consumer Health education in the classroom.
- To link Faculty Peer Leaders with their colleagues to support and mentor them in the use and integration of Consumer Health and eHealth competencies into the curriculum.
- To develop the educational tools and peer support services that contribute to the use and

optimization of Consumer Health and eHealth competencies in the classroom.

Infoway's Consumer Health Program priorities include:

- **e-visits** – secure messaging between patients and their care providers
- **e-views** – patient/informal caregiver access to personal information
- **e-renewal/e-refill** – patient initiated electronic requests for prescription renewals/refills
- **e-scheduling** – electronic patient self-scheduling with their community or ambulatory care based clinician
- **remote patient monitoring** – delivery of health care to a patient's home, made possible by connecting the patient and a health care provider through a technology device

¹ <http://www.afpc.info/content/pharmacists-training-information>





Participants in the 2014 PEPLN Initiation Workshop

Front Row (L-R) – Jeff Taylor, Marion Pearson, Martine Lepire, Marie Rocchi, Casey Sayre, Lisa Bishop, Harold Lopatka
Back Row (L-R) – Teri Charrois, Gilles Leclerc, Kim Sponagle, Kelly Grindrod, Eric Schneider, Donna Pipa, Cindy Hollister, Valerie Leung

PEPLN was officially launched at a team workshop held August 22 – 24, 2014 in Montreal, Quebec. Attendees included all 10 Peer Leaders, Eric Schneider (facilitator), Canada Health Infoway, AFPC project staff and invited guests.

Plenary presentations focused on key areas related to the role of a Peer Leader in this project, including:

- Mentoring Relationships – Dr. Jim Gavin
- Overview of Infoway and the Consumer Health program – Valerie Leung

- Peer Leader Experience – Dr. Lisa Bishop
- Update on e-Resource – Marie Rocchi
- Science of Change Leadership – Sara Ross
- Quality Evaluation – Dr. Gilles Leclerc

Small breakout group discussions challenged participants to delve into opportunities and challenges, as well as share ideas and strategies for integrating the e-Resource and the Consumer Health priorities within their pharmacy programs.

Dr. Lisa Bishop – Memorial University of Newfoundland

Lisa is an associate professor with the School of Pharmacy at Memorial University with a cross appointment to Memorial's Discipline of Family Medicine. She began her position as entry-to-practice Pharm D program director in 2014. Since 2008, she has been a peer leader for the adoption of electronic health solutions with the NL Centre for Health information, and is an expert advisor for the NL Peer-to-Peer Project. She was a member of the AFPC/Canada Health Infoway's Informatics project working group and was involved in writing sections of the Informatics e-Resource.

Kim Sponagle – Dalhousie University

Kim coordinates the 3rd year Skills Lab at Dalhousie College of Pharmacy, and is the Skills Lab Administrator and Coordinator of Undergraduate Student Affairs. She also sits on the program advisory committees for 2 pharmacy technology programs and coordinates the inter-professional activities for the College of Pharmacy.

Martine Lepire – Université Laval

Martine holds a Masters in Educational Technology from Université Laval, with a specialty in e-learning. She has worked with several faculties to develop online courses. She has also worked on projects with University of Ottawa (portfolio) and TELUQ (distance university). Her interests include integrating technology and social media in class.

Dr. Gilles Leclerc - University of Montreal

Gilles worked 10 years in hospital and community pharmacy before returning to the University of Montreal as the Experiential Practice Program Coordinator. He was then involved in the development and implementation of the Pharm D program, specifically in the design of the Revised Experiential Practice program and in the use of technology for educational purposes. Head of the Innovation in Pharmacy Education Centre (BIPP), the Educational Research Group in Pharmacy Education (GIPSIES) and the Assessment Support Office (SESAME), he strives for the development of research based best practices in pharmacy education.

Marie Rocchi – University of Toronto

Marie is a faculty member at the University of Toronto and was responsible for the development of the International Pharmacy Graduate Program. She was faculty lead for the Informatics for Pharmacy Students – e-Resource and is also the instructional designer for a Defense Canada initiative. Marie is also Director of Education of the International Medical Graduate program, a collaborative of Ontario's six medical schools.

Dr. Kelly Grindrod – University of Waterloo

Kelly is an assistant professor at the University of Waterloo's School of Pharmacy. She is also a licensed and practicing pharmacist. Her research includes novel ways to bring research findings to today's busy medical clinics and pharmacy counters, namely through innovations in mobile technologies. Kelly was involved in writing a section of the Informatics for Pharmacy Students – e-Resource.

Dr. Casey Sayre – University of Manitoba

Casey joined the Faculty of Pharmacy in August 2014 as an Assistant Professor. His research interests are in optimizing and individualizing currently used pharmacotherapy with pharmacogenetic, pharmaceutic and pharmacokinetic analysis and experimentation. He has published 12 peer reviewed articles, 4 as first author and 5 book chapters, 1 as first author. He has also practiced pharmacy in hospital, community and long term care settings.

Jeff Taylor – University of Saskatchewan

Jeff is a pharmacist/academic with past experience in nursing homes, the incarceration system, hospital and community pharmacies. He has authored chapters for the Canadian Self-Care reference and has presented at meetings on this topic. He has enjoyed 25 years of teaching future pharmacists, trying new techniques along the way, including a self-created information databank for iPads during minor ailment consults. He is an advocate of technology in the classroom.

Teri Charrois - University of Alberta

Teri is a Clinical Associate Professor with the Faculty of Pharmacy at the University of Alberta. In 2006, Teri started work as a Research Associate with EPICORE Centre at the University of Alberta, where she coordinated multi-centre pharmacy practice research projects. In 2010, Teri moved to Curtin University in Perth, Australia where she became a lecturer in the School of Pharmacy. Teri has returned to Canada to begin a new role as Lead in Practice Skills.

Marion Pearson – University of British Columbia

Marion is Professor of Teaching, Director of the Entry-to-Practice Program, and Director of the Office of Educational Support and Development in the Faculty of Pharmaceutical Sciences at UBC. Marion's teaching emphasizes the development of practical knowledge and skills for patient-centred care, through learning in an interactive, collegial environment. Practice, constructive feedback, authentic assessment and self-reflection are all essential components to successful learning that she incorporates into her approach to teaching.

Informatics for Pharmacy Students - e-Resource

“Informatics for Pharmacy Students” is an e-Resource intended to prepare pharmacy students for practice in the 21st century, using information and communication technologies responsibly and effectively in the provision of patient care. The e-Resource was written by a collective of Canadian pharmacy faculty members, informaticians, and clinicians - with upper year students actively engaged in each stage of development. Official launch of the e-

Resource occurred in January, 2014 after pilot testing in select courses at Memorial University, University of Alberta and University of Toronto.

Through the e-Resource, undergraduate pharmacy students will be actively engaged in a comprehensive foundational treatment of this area, using media-rich material with innovative learning approaches, including virtual patients, polls, and self-assessment quizzes.

The e-Resource has recently been enhanced to better facilitate requirements related to the PEPLN project. These enhancements include:

- Addition of new sections/materials related to Consumer Health priorities
- Establishment of separate sites for each school. This will allow each faculty to track analytics related to use of the e-resource. Associated with this, is a requirement for use of an enrollment key by users at each school.
- Improved navigation
- Redesigned landing page

The e-Resource can be accessed at <http://afpc-education.info/moodle/index.php>

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