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PRESIDENT’S MESSAGE

On behalf of AFPC council, I would like to extend greetings to our colleagues across Canada as we move into another academic year. I find autumn to be such an exciting and busy time as we engage with our students to support them to become outstanding pharmacists.

In preparing to write this message, I have been reflecting on the role AFPC is meant to play in our careers as pharmacy educators in Canada. Upon reviewing some of the information on the AFPC web site I found that there are two mission statements: one for pharmacy education in Canada and another for AFPC. While the mission for pharmacy education in Canada calls schools “to provide programs of excellent quality which by their content and presentation produce graduates who contribute significantly to societal, professional and patient care responsibilities, and who are committed to life-long learning”; AFPC’s is “committed to the promotion and recognition of excellence in pharmacy education and scholarly activities”. Therefore, the only reason for AFPC’s existence is to support pharmacy educators across the country.

AFPC truly is a service council – we are in service to you, our membership. The value of having a national council is to engage in activities together to support individuals and schools with issues we all struggle with. “Many hands make easy work” as my father likes to say. And there are many common challenges and opportunities we are faced with as academics in this time of change for the profession of pharmacy - which is both exciting and daunting.

Over the years that I have been involved with AFPC, we have worked on many initiatives meant to directly benefit Canadian schools of pharmacy, faculty members and students. In the coming year, we will be working to provide support for curriculum mapping, program evaluation and implementation of the AFPC educational outcomes. These areas have been highlighted by you, our membership, as key areas where a national initiative would be of help. Indeed, the notion regarding providing more support around curriculum mapping came out of the June 2011 CPERC conference – for those of you who may not attend this conference, I strongly encourage you to do so – it is a great forum to learn from and collaborate with your Canadian colleagues regarding issues of importance in pharmacy education. In order to ensure that AFPC prioritize its activities around issues of importance to faculty, I encourage you to connect with AFPC in a way that is meaningful to you. Over the next several months, AFPC councilors will be looking beyond council to engage other members in activities that may be of interest to them – also, we will be asking members to identify areas of need. As President, my request to you is to help us fulfill our mission of serving our membership and academic pharmacy in Canada by getting involved and letting us know what is important to you.

In closing, I would like to thank our hard working council members for their contributions – I am always so impressed with the commitment of those on council to contribute their time to do the best they can for AFPC. It really is a volunteer organization like no other. During my term as president, I will work hard to support council as they work to support all of you. I look forward to seeing everyone next year at the Annual CPERC Conference which will be held in Quebec City June 5-8, 2012 at the Château Laurier.

Warm regards,

Ingrid Price

AFPC President 2011-12.

EXECUTIVE DIRECTOR'S CORNER

I hope everyone had a great summer and smooth start to the fall 2011 term. My last written report was presented in advance of the Annual General Meeting in Winnipeg. A written copy of the annual report will appear in the 2011 AFPC proceedings once they are compiled. Since then there have been a number of important AFPC activities. The following is a report on Executive Director, and AFPC and ADPC activities.

Executive Director Activities

My summer was a busy one. A significant amount of my time was dedicated to the Canada Health Infoway Clinicians in Training funding proposal. This required a

significant amount of front end work: fine tuning the proposal, the development of a formal written agreement with CHI, and the hiring of a project manager. In July, I attended the 2011 Annual American Association of Colleges of Pharmacy conference in San Antonio. The conference is extremely valuable in networking with people and learning about the activities that AACP engages in. In relation to further planning with regard to our new governance model, I attended some workshops on a new piece of federal legislation "Canada's Not-for-profit Corporations Act". The directions being considered in our new governance model appear to be in alignment with this new legislation.

AFPC and ADPC Activities

AFPC Council

Ingrid Price (University of British Columbia) began her Presidency at the AGM. Daniel Thirion (University of Montreal) became the President Elect. AFPC councilors either renewed or elected in 2011 were: Andrea Cameron (University of Toronto), Carla Dillon (Memorial University), and Kerry Mansell (University of Saskatchewan). Congratulations to these Executive and Councilors.

The following were some of the agenda items addressed at the June 2011 AFPC Council meetings: individual committee reports, identification of 2012 council priorities, 2012 committee appointments, council feedback to CCAPP revised standards, levels of performance for educational outcomes, and specialized pharmacy residencies. External stakeholder consultation occurred with ISMP about medication safety. The levels of performance for the educational outcomes has been posted on the AFPC website.

ADPC (Deans)

There have been three new Deans appointed in 2011 to lead Canadian pharmacy faculties: Dr. Neal Davies at the University of Manitoba, Dr. David Edwards at the University of Waterloo and Dr. Jean Lefevbre at Laval University.

ADPC held meetings in Winnipeg (June 6 interim) and Mont Tremblant (October 2,3 annual). The following are samples of items being reviewed at the Deans'

meetings: rapidly changing pharmacy manpower situation, and Blueprint for pharmacy commitments. The Deans routinely consult at their meetings with external stakeholders e.g., at the October 2011 meeting consultation occurred individually with representatives of Canadian Medical Association, Canadian Pharmacists Association and Canadian Generic Pharmaceutical Association.

New Governance Model

The new AFPC governance model was presented at the 2011 Annual General Meeting. There appeared to be widespread general support for the new model. One area was identified for further study. A new piece of federal legislation has been introduced "Canada's Not-for-profit Corporations Act". This legislation is anticipated to come into effect in fall 2011 and will affect approximately 19,000 national not-for-profit organizations (including AFPC). The legislation expands and clarifies member rights and clarifies duties, powers, potential liabilities and the standard of care for directors. The sessions helped to understand the Act and the forthcoming regulations.

CPERC

Attendance was approximately 120 and feedback was positive about the conference program content and format. The conference was a financial success with there being an excess of revenue over expense. Once again, special thanks to Silvia Alessi-Severini (conference chair), Lavern Vercaigne (acting Dean) and the members of the planning committee for their hard work in making the conference a success.

Canada Health Infoway (CHI) - Pharmacists in Training grant

In July we were pleased to hear that our AFPC proposal was approved to establish a national education program on information and information technology for pharmacists in training. The project is entitled "Educational Program for Optimizing the Use of Pharmacy Information and Information Technology". The project will allow AFPC to develop and host a national education program for pharmacy teaching programs and students. The project is a huge opportunity for AFPC. The course will be designed so that it can be integrated into educational curricula. A formal written agreement has been established between AFPC and CHI. The following is the web link for the joint announcement about the project <https://www.infoway-inforoute.ca/about-infoway/news/news-releases/788>. A project manager, Ms. Donna Pipa, was hired to help lead and manage the project. Further information about the project will be distributed through regular written communications and at CPERC.

Liaison with Annual American Association of Colleges of Pharmacy (AACP)

Lalitha Raman-Wilms and I attended the July 2011 Annual AACP conference in San Antonio. Lalitha provided an official greeting from AFPC. We were able

Awards

Congratulations again to our 2011 award winners.

- Alexandre Melkoumov – Université de Montréal - Merck Postgraduate Pharmacy Fellowship Award
- Benoît Drolet – Université Laval - Sanofi-Aventis New Investigator Award
- Nancy Waite – University of Waterloo - Bristol Myers Squibb National Award for Excellence in Education
- Niladri Chattopadhyay – University of Toronto - GSK Graduate Student Research Award
- Peter Wells – University of Toronto - Pfizer Research Career Award
- Roderick Slavcev – University of Waterloo - Janssen Innovation in Education Award

In addition, there were 2 awards winners for the AFPC Woods-Hughes Special Service Awards:

- Anne Marie Whelan – Dalhousie University
- Lavern Vercaigne – University of Manitoba

to communicate directly with Lucinda Maine and other individuals either working for the organization or in elected positions. AACP has many experiences, programs and services that AFPC learn about. The educational sessions were valuable in that I was able to learn about various innovative pharmacy education programs and services being offered in US universities. The trade show was valuable as I was able to make contact with vendors providing student software tracking programs and security check firms.

Blueprint for Pharmacy

The Blueprint for pharmacy national office is in the process of fundraising. One of the major activities where AFPC is a lead organization is for the action objective relating to experiential education. The action objective is as follows: increase the accessibility, quality, quantity and variety of experiential learning opportunities to prepare pharmacy professionals, including students, to practice in expanded and innovative roles. PEP-C has been active in developing a project charter to initiate the action objective by holding a multi step, multi stakeholder, facilitated workshop on developing future models and strategies for experiential education. The proposal was developed by the PEP-C chair, Andrea Cameron and vice chair, Ann Thompson.

The following were the 10 winners for the AFPC - Rx and D Pharmacy Student Research Poster Award:

- Arash Falamarzian – University of Alberta
- Ian Wong – University of British Columbia
- Jovana Tomic – University of Saskatchewan
- Lacey Corbett – Memorial University
- Mélanie Rouleau – Université Laval
- Melanie Trinacty – Dalhousie University
- Payam Zahedi – University of Toronto
- Tarek Mohamed – University of Waterloo
- Valery Aoun – Université de Montréal
- Yining Li – University of Manitoba

Lacey Corbett and Payam Zahedi won the two National best Poster Awards. Samaa Al-Rushaid won the Whit Matthews Graduate Student Poster Award.

Special thanks to the 30 reviewers who assisted in the submission reviews.

We would like to acknowledge the following sponsors who are providing support to AFPC. Thank you for your contributions.

Rx and D

Merck

Pfizer

GlaxoSmithKline

Janssen

Sanofi-Aventis

Canadian Patient Safety Institute

Nycomed

Rexall

Servier

Teva

McKesson

Bristol Myer Squibb

Leo-Pharma



AFPC/ADPC Executive Director

Curriculum News

The 2011-2012 academic term marks a transformative moment in the history of the Leslie Dan Faculty of Pharmacy at the University of Toronto. This September, the Faculty began delivering our new undergraduate curriculum, and ushered in the first group of students to participate in a new program - the Combined Bachelor of Science in Pharmacy-Doctor of Pharmacy program.

Led by Associate Professor and Interim Associate Dean, Professional Programs, **Lalitha Raman-Wilms**, the new curriculum features several substantial changes over the previous curriculum including moving several courses into prerequisites, increasing the number of pharmacotherapeutics courses, integrating medication therapy management into the curriculum, and incorporating greater experiential components into the program beginning in first year. The new curriculum directly addresses the changing scope of pharmacy practice in Canada, while including elements that will further shape and define the profession in the future.

At the same time, the Faculty introduced a new program that joins the Bachelor of Science in Pharmacy degree with the Doctor of Pharmacy degree to create a Combined Bachelor of Science in Pharmacy-Doctor of Pharmacy degree. Open to students entering the 4th year of the BScPhm program at the Faculty, this

program provides students with an opportunity to continue their education and begin working on a second, advanced degree concurrently with the undergraduate program course requirements.

A total of 31 students are now participating in the inaugural year of the combined program where they are taking Doctor of Pharmacy courses in addition to the regular undergraduate course load. Beginning in January, they will participate in an introductory experiential rotation before returning to the classroom for additional Doctor of Pharmacy courses. From that point on, the program rotates between coursework and experiential placements until May 2013. Once this additional year of courses and specialized placements is complete, participants will graduate with two degrees.

The Combined Bachelor of Science in Pharmacy-Doctor of Pharmacy program combines two of the Faculty's most successful degrees into a single program that equips students with the skills, knowledge, and experience required to excel as advanced practitioners.

For more information on the new undergraduate curriculum and the Combined Bachelor of Science in Pharmacy-Doctor of Pharmacy program, please visit www.pharmacy.utoronto.ca.

Funding & Research News

This Spring, the Faculty announced a \$1 million donation from **Walmart Canada** to establish the **Walmart Canada International Pharmacy Education Centre**. This Centre includes a one hundred seat classroom and student break-out areas equipped with state of the art video-conferencing and audio visual equipment designed to enhance and expand the **International Pharmacy Graduate (IPG) program**.



The IPG program provides internationally-educated pharmacists with the knowledge and skills necessary to meet Canadian pharmacy practice standards and licensing requirements. Since 2000, close to 800 students have completed the program, which has established itself as a model in bridging education. Offered twice a year with enrolment of over 75 students in each intake, this commitment from Walmart Canada will facilitate an anticipated 30 per cent increase in enrolment over the next several years. This increase will make a significant difference in meeting the growing demand in Canada for qualified pharmacists.

Walmart Canada’s generous donation provides the funding and physical infrastructure to increase enrolment, augment program offerings, and enhance the overall learning experience. It will provide students with a designated space to study, attend classes, and interact with faculty, staff and pharmacy practitioners to develop the skills and support networks necessary to succeed in Canadian pharmacy practice.

Professor **David Hampson** recently received a four-year operating grant under the CIHR Industry-Partnered Collaborative Research grants program. “Metabotropic Glutamate and GABA Receptors in Neuroinflammation” will investigate the notion that several neurological and neuropsychiatric disorders including schizophrenia and autism spectrum disorders

are associated with an immune reaction in the brain and the evidence that metabotropic glutamate and adenosine neurotransmitter receptors might be involved in, or able to modify this immune response in this central nervous system.

Professor **K. Sandy Pang** recently received a four-year CIHR operating grant as the Principal Investigator on “A Role for the Vitamin D Receptor (VDR) in Cholesterol Lowering.” The grant is shared with Co-Investigators, Drs. **Carolyn Cummins** and **Lakshmi Kotra**. Dr. Pang has been working in the area of the VDR for the past five to six years and found that the VDR, when activated by the active ligand, 1 α ,25-dihydroxyvitamin D₃, manifests inductive or inhibitory effects on transporters and enzymes, including induction of cholesterol 7 α -hydroxylase (CYP7A1) that led to cholesterol lowering in mice fed a high fat/high cholesterol diet.



Dr. Lakshmi Kotra

Professor and GlaxoSmithKline Chair in Drug Delivery **Ping Lee** also received a three-year grant from CIHR for “Nitric Oxide Delivery System for Wound Healing.” Diabetic foot ulcers are a leading cause of amputations in diabetes patients, and an effective therapy for treating chronic diabetic foot ulcers is still lacking. Nitric oxide (NO), a critical mediator in normal tissue repair, has been shown to play a pivotal role in the overall wound healing process. Dr. Lee has developed a simple, stable and biocompatible system that can release NO over an extended period of time. The results obtained from this study will help the design of more effective NO delivery systems for enhancing diabetic wound healing and should have a significant impact on the health care system by reducing the need for amputations in millions of diabetic ulcer patients.

Professor **Shana Kelley** is the recipient of an Ontario Research Fund - Research Excellence award. The Ontario Research Fund Research Excellence program

supports transformative, internationally significant research, and targets new, leading-edge research initiatives. “Nano-enabled devices for disease prevention and control” will see the development of a device for the capture of prostate cancer tumor cells to enable early cancer detection. This device will utilize sensitive nanomaterials developed in Dr. Kelley’s lab to allow the cells to be pulled out of blood samples, including the low levels of molecules that can be the early signs of disease.

Professor **Peter Wells** is the recipient of a five-year grant from Canadian Institutes of Health Research for “Free radical determinants of neurodegenerative disease.” For this project, Dr. Wells and his team will examine the neurodegenerative role of reactive oxygen species (formed during normal body metabolism of amphetamine and related drugs, which are widely prescribed to children with attention deficit-hyperactivity disorder), and the protective pathways that detoxify ROS or repair the brain damage.

This summer, a group of students from the Faculty had the opportunity to participate in a large scale research project at the Ontario Science Centre. Dr. **Anna Taddio** enlisted students from across the Faculty on this project, spending six days a week over the course of the summer questioning over 2,000 parents and children about needle fear and immunizations. This unique opportunity to partner with one of the world's leading interactive science museums provided Dr. Taddio and her team with an excellent chance to learn more about the factors that influence parents' decisions to immunize their children. Ultimately, Dr. Taddio hopes to use these findings to demonstrate how effective pain management practices would impact immunization compliance.

Faculty News



Assistant Professor **Muhammad Mamdani** was named one of Canada's Top 40 Under 40 by *The Globe and Mail*. As a pharmacoepidemiologist and Director of the Applied Health Research Centre at St. Michael's Hospital, Dr. Mamdani helps policymakers evaluate the risks and costs of drugs, and has been able to

carve a niche for his research by drawing together several disciplines - a Doctor of Pharmacy degree from the University of Michigan, a Master's degree in Public Health (Biostatistics and Epidemiology) from Harvard, and a Master's degree in Economics from Wayne State University. This varied academic background allows him to access health care databases to examine the effects of different drugs on patients' health and how resources are used, allowing for better decisions about health care delivery.

After six years leading the Graduate Department of Pharmaceutical Sciences, Dr. **Reina Bendayan** stepped down as Associate Dean, Graduate Education, effective June 30th. As the recent recipient of a Career Scientist Award from the Ontario HIV Treatment Network, Ontario Ministry of Health, Professor Bendayan leaves her role as Associate Dean to focus on her research in the field of antiretroviral drug transport at blood-tissue barriers. Since 2005, Dr. Bendayan has led the graduate department and has been instrumental in directing its expansion and attracting the top graduate students to the Faculty's MSc and PhD programs.



Dr. **Heather Boon** was recently appointed Associate Dean, Graduate Education. Dr. Boon brings a great deal of experience and insight to this role - during the 2010-2011 academic term, Dr. Boon was the Interim Associate Dean, Graduate Education. Prior to that, she served as the Department's Graduate Coordinator.



modeling, medicinal chemistry and biochemistry principles for efficient drug design process to generate lead compounds for development as therapeutic agents.

The Faculty has created six new jointly-funded positions with Toronto-based health institutions – four Clinician Scientists and two Clinician Educators.

In July, Dr. **Lakshmi Kotra** joined the Faculty as a full-time tenured Associate Professor. Dr. Kotra takes on this appointment in addition to his roles as Director of the Centre for Molecular Design and Preformulations at the University Health Network, and Scientific Director for UHN-Shanghai, Inc. Dr. Kotra's research applies an integrated approach in drug discovery combining advanced principles/technologies in chemical biology, target information, computer

Dr. **Carlo DeAngelis** has been appointed to the position of Assistant Professor and Clinical Scientist at Sunnybrook Health Sciences Centre. Dr. DeAngelis will focus on clinical research in oncology. In this role, he will continue to provide leadership and mentorship for scholarly activity to practitioners, pharmacy residents and fellows at Sunnybrook as well as fulfilling teaching responsibilities through the Division of Pharmacy Practice.



Dr. **Marisa Battistella** has been appointed to the position of Assistant Professor and Pharmacy Clinician Scientist at University Health Network (UHN). In her



new role within the Division of Pharmacy Practice, Dr. Battistella's primary focus will be clinical research with expectations to develop and build a self-sustaining clinical/translational research program in affiliation with

our Faculty and UHN. She will continue to provide leadership and mentorship for scholarly activity to practitioners, pharmacy residents and fellows, and will also continue teaching in the professional pharmacy curriculum. Dr. Battistella's main practice, teaching and research area has been in hemodialysis/nephrology at the Toronto General Hospital.

Dr. **Beth Sproule** has been appointed to the position of Assistant Professor and Pharmacy Clinician Scientist/Advanced Practice Pharmacist at the Centre for Addiction & Mental Health (CAMH). Dr. Sproule has taught for many years at the Faculty within the graduate, undergraduate and Doctor of Pharmacy programs.



In her new role within the Division of Pharmacy Practice, her primary focus will be clinical research in the area of prescription drug abuse. She will continue to provide leadership and mentorship for scholarly activity to practitioners, pharmacy residents and fellows. Dr. Sproule will also continue to teach in the professional curriculum and will participate in graduate and postgraduate education.

Dr. **Jamie Kellar** has been appointed to the position of Assistant Professor and Pharmacy Clinician Educator/Advanced Practice Pharmacist also at CAMH. A

recent graduate of the Doctor of Pharmacy program at the Faculty, Dr. Keller has extensive experience in mental health through her recent position at Ontario Shores Centre



for Mental Health Services. As a new member of the Division of Pharmacy Practice, Dr. Keller's primary focus will be clinical education and she will provide and promote the highest quality of pharmaceutical care by teaching and mentoring pharmacists, pharmacy students, residents and fellows and by contributing to scientific excellence through scholarly activity in affiliation with the Faculty and CAMH. Teaching responsibilities in the professional curriculum and participating in graduate and postgraduate education will also be a major focus.

Dr. **Natalie Crown** joined the Faculty this summer as a Clinician Educator and Assistant Professor through a joint appointment with Women's College Hospital (WCH). Dr. Crown is a graduate of the Pharmacy Program at Dalhousie University and the Doctor of Pharmacy program at the University of Toronto. Prior to accepting this joint position, Dr. Crown was a



clinical pharmacist in the Atrial Fibrillation/Anticoagulation clinic and Residency Coordinator at the London Health Sciences Centre, where she also held the position of Adjunct Assistant Professor, Division of Clinical Pharmacology, Schulich School of Medicine and Dentistry, at the University of Western Ontario. Since starting her

new position, Dr. Crown has been involved as a Co-coordinator for several Doctor of Pharmacy courses, spearheaded the development of a hospital Ambulatory Care Pharmacy Practice Residency, and coordinated experiential learning placements at WCH.

Dr. **Lisa McCarthy** was appointed an Assistant Professor and Clinician Scientist within the Division of Pharmacy Practice at the Faculty this summer. A graduate of the Faculty's Bachelor of Science in Pharmacy and Doctor of Pharmacy programs, Dr. McCarthy has held a status-only appointment with the Faculty since 2007, coordinated Physical Assessment for the Doctor of Pharmacy program and instructed in the 4th year undergraduate Women's Health elective. In addition to her teaching responsibilities at the Faculty, Dr. McCarthy will be responsible for developing a clinical practice with the Complex Care Clinic of the Centre for Ambulatory Care Education at Women's College Hospital. Her research will focus on optimizing safe medication use in ambulatory care as well as models of pharmacy practice in the ambulatory care setting.



Marie Rocchi was appointed Director of Educational Programs at the Centre for the Evaluation of Health Professionals Educated Abroad, an Ontario-based organization with a focus on physicians and nurses. In this position, Marie is responsible for the design, implementation and evaluation of a pre-residency online training program for medical residents about to undertake specialty or Family Medicine residencies in Ontario. Marie also continues her teaching commitments at the Faculty.

Each year, students in the Bachelor of Science in Pharmacy program recognize the outstanding contributions of faculty members to the learning experience at the Faculty through the selection of the “Professors of the Year” for each class. For the 2010-2011 academic term, students in the undergraduate program recognized the following individuals: **Zubin Austin** (Years 1 and 4), **Marie Rocchi** (Year 2), and

Graduate Student News

PhD student **Shervin Gholizadeh** from the laboratory of Dr. David Hampson is the recent recipient of a Vanier Scholarship. Sherwin receives this high honour for his research in “Restoration of fragile X mental retardation protein expression and function after intracerebellar injection of viral vectors encoding the gene.” The Vanier Scholarships are Canada’s highest graduate level academic awards, created to attract and retain world-class doctoral students and to establish Canada as a global centre of excellence in research and higher learning. Sherwin was presented with his award by Prime Minister Stephen Harper at a press conference held in August.



Office of the
Provost
University of
Toronto

Bill Wilson (Year 3). Congratulations to these deserving instructors.

Strategic Planning

Throughout 2011, the Faculty has been preparing a strategic plan. As part of this process, faculty, staff, students, and members of the pharmacy community met at a retreat to discuss the Faculty’s strategic plan. Facilitated by Dean Emeritus **Wayne Hindmarsh** and **Maria Bystrin**, Director of the Continuous Professional Development program, the day featured presentations and lively discussions about the Faculty, potential goals and objectives, and the steps that need to be taken to achieve these goals and meet these objectives. Throughout the summer, the feedback and input provided at this session have been incorporated into the development of a strategic plan for the Faculty that will outline our goals and aspirations for the next five years.

Outreach News

During the summer, the University of Toronto runs a 4-week program that provides high school students of Aboriginal and African ancestry (groups that have not traditionally participated in health care professional education) with an opportunity to explore post-secondary programs in the health sciences. Second year pharmacy student **Ida Famiyeh**, a graduate from and a coordinator of this program, led the Faculty initiative.

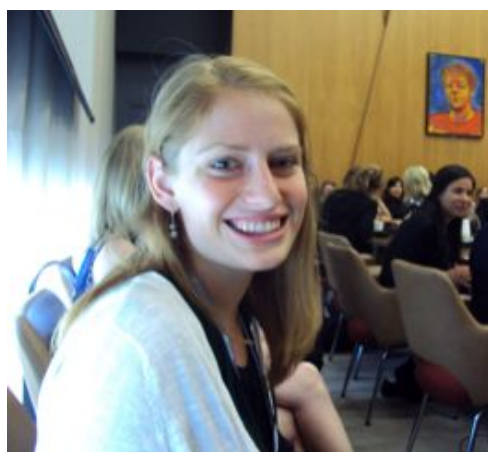


After learning about the many exciting opportunities that exist for pharmacy grads, the group was treated to several pharmacy-related activities – making sense of prescriptions, checking prescriptions for errors using the Compendium of Pharmaceutical Specialties, and making suppositories, slime, and tablets in the lab. The event was a tremendous success - the students enjoyed their time at the Faculty, and left with a greater understanding of and appreciation for pharmacy and pharmaceutical sciences.

Each summer, students in the Faculty's Bachelor of Science in Pharmacy program apply the skills and knowledge they have acquired in the classroom in Summer Internship positions across the globe. Through these experiences, students are able to see how pharmacy is practiced in other countries, and measure what they learn here against what is happening in other parts of the world.



As part of the Faculty's Summer Internship Program, **Heather Bannerman** and **Priya Bansal** spent 10 weeks in Namibia at the Katutura Health Centre, where they worked in a facility that provides specialized services for HIV and tuberculosis. In this role, they counseled patients, dispensed antiretroviral and tuberculosis medications to HIV patients, assessed patient adherence, and developed educational posters and videos that demonstrated the importance of medication adherence.



Third year student **Sarah Bonazza** interned at the Good Governance for Medicines Programme in Geneva, Switzerland, where she

performed an intensive global literature review, developed a background report, presented her findings to WHO staff and interns, and composed a journal article to educate others on these issues.

Maria Zhang participated in an internship program with the Stop-Tuberculosis Partnership that was also housed at the World Health Organization in Geneva. Through this internship, Maria worked as part of the Global Drug Facility, an organization that provides access to high quality tuberculosis medications, and has supplied more than 18 million patient treatments since it was established ten years ago.



Educational Programming

In July, the International Pharmacy Graduate (IPG) program began offering a hybrid online course to allow internationally-trained pharmacists greater access to the Faculty's IPG program.

Consisting of two 14-week learning modules, including three weeks of Toronto-based workshops, the IPG program offers pharmacists trained in other countries the opportunity to acquire the professional and clinical skills necessary to practice as a pharmacist in Canada. The expansion of the program to include an online offering is designed to provide students who live outside of Toronto, as well as those who may be working part-time, the opportunity to participate in a program that equips them with the knowledge and skills needed to succeed in Canadian practice. The expansion of the IPG program to include an online offering was made possible through the generous support of Walmart Canada.

UNIVERSITY OF ALBERTA

Faculty Appointments

Welcome to the following people:

- **Stephanie Morton** has returned to the faculty as a Clinical Instructor covering a maternity leave.
- **Rae Beaumont** has joined the faculty as Student Service Group Lead.
- **Michelle Durocher** is the technician support in the practice labs.

Awards

Congratulations to the following award winners:

- **Dr. Christine Hughes**, awarded the Bristol Myers Squibb Teaching Excellence Award by the graduating class of 2011.
- **Angela Giang** and **Ken Walker** for receiving the Preceptor of the Year Awards presented by the graduating class of 2011.

Grants

Dr John Seubert

- 1) CIHR Operating grant \$680,000 July 2011-July 2016
Title: *“Regulation of Mitochondrial Dynamics by*

Eicosanoids: Novel Mechanisms for Limiting Cardiac Dysfunction Caused by Ischemia Reperfusion Injury”

(2) France-Canada Research Fund (French Embassy) Collaborative Pilot Project with Dr. Jérôme BELLENGER at the University of Burgundy, \$12,000 July 2011 – July 2013; Title: *“A new approach of the role of n-3 polyunsaturated fatty acids during myocardial ischaemia-reperfusion: the fat-1 transgenic mouse model.”*

Dr. Afsaneh Lavasanifar received two CIHR grants for the following research projects: *“Ligand-guided polymeric nano-carriers for tumour targeted drug and oncogene silencing therapy”* and *“Nano-delivery systems for cancer immunotherapy”*.

Dr. Lisa Guirguis was part of a team who received a Teaching and Learning Enhancement Fund (TLEF) grant. The team’s goal is to develop an integrated, student-directed approach to interprofessional education at the University of Alberta.

General Faculty News

Dr Scot Simpson’s study, recently published in the Journal of General Internal Medicine, was highlighted in the media. The study showed that in diabetic patients who had suffered a previous MI or stroke, higher doses of aspirin prevented a repeat MI and/or death.

We are moving!

Over the past months, the Pharmaceutical Sciences division offices and research labs have been moved into the Katz Group Center for Pharmacy and Health Research. The Pharmacy Practice division will be moving into the Edmonton Clinic Health Academy at the end of December, 2011.

Dean’s Golf Tournament

The Dean’s Golf Tournaments were held on June 28, 2011 in Edmonton and August 29, 2011 in Calgary. These were two of the most successful tournaments held in the past 12 years. The result is over \$45,000 being endowed for undergraduate bursaries and scholarships. Special thanks to all our golfers, prize contributors and dedicated sponsors.

Pharmaceutical Sciences mini-symposium

Dr. Ah-Ng Tony Kong, a Faculty of Pharmacy and Pharmaceutical Sciences Alumnus, 1983, returned to the U of A as a guest speaker at a mini symposium hosted by the Pharmaceutical Sciences Division on Thursday, September 22.

Changes to curriculum

We have implemented new courses for practice skill development for years 2 and 3 of our program. The 2nd and 3rd year skills labs which were previously incorporated into the therapeutic modules have been removed from each module and will now run as individual courses. The courses weave in topics on the patient care process, physical assessment, prescribing, clinical documentation, medication reconciliation, interprofessional communication, and presenting evidence to patients. The 2nd year course has started in September, with plans for the 3rd year course to commence September 2012.

UNIVERSITY OF BRITISH COLUMBIA

General Faculty News

A new academic year has begun and the halls of our building are bustling with students, both new and returning. The summer months were eventful as we finalized new Faculty appointments, prepared for the growth of our student body, and progressed with a number of other important projects and initiatives. We have also just crossed the one-year mark until the official opening of our new building. Truly, it is an exciting time for us and the profession. This is an important year for our Faculty.

Announcement of new Associate Dean, Research & Graduate Studies - Dr. Kishor Wasan

The Faculty of Pharmaceutical Sciences at UBC is pleased to announce the appointment of **Dr. Kishor Wasan** to the position of Associate Dean, Research & Graduate Studies effective September 1, 2011. Dr. Wasan will be taking over for Dr. Helen Burt, who will be assuming the role of UBC Associate Vice President, Research & International.

UBC Pharmaceutical Sciences graduate students win 2011 NSERC Scholarships

Laura Bandy and Mehrdad Bokharai, graduate students in the the Faculty of Pharmaceutical Sciences at UBC, have recently been awarded scholarships from NSERC (Natural Sciences and Engineering Research Council of Canada). More than 4,500 applications were received by the Council for the 2011 Scholarships and Fellowships Competition. In the Postgraduate category, Laura won a three-year scholarship. Mehrdad won a two-year scholarship under the Canadian Graduate category.

UBC Pharmaceutical Sciences signs Statement of Cooperation with University of Copenhagen

On June 27, 2011, the Faculty of Pharmaceutical Sciences at the University of British Columbia signed a Statement of Cooperation with the Faculty of Pharmaceutical Sciences at the University of Copenhagen. The Statement of Cooperation represents the first step in a long term joint venture between both faculties to collaborate in the following areas:

- The exchange of visiting students, scholars, faculty and post-doctoral fellows.
- Collaborative graduate education and research training.
- Shared endowed Faculty position(s).

Announcement of new Associate Dean, Practice Innovation - Dr. Peter J. Zed

UBC Pharmaceutical Sciences is pleased to announce the appointment of **Dr. Peter J. Zed** to the position of Associate Dean, Practice Innovation. Dr. Zed will be commencing his new role with the Faculty this Fall.

Five new Faculty Appointees welcomed at UBC Pharmaceutical Sciences

UBC Pharmaceutical Sciences is excited to announce five new faculty appointments in time for the 2011-2012 academic year:

- **Janice Moshenko**, Instructor 1, Cases in Pharmaceutical Sciences (CAPS)
- **Katherine Seto**, Instructor 1, Clinical Skills
- **Tamiz Kanji**, Instructor 1, Pharmacy Practice Skills, Year 3
- **Tessa Nicholl**, Instructor 1, Cases in Pharmaceutical Sciences (CAPS), Year 4
- **Arun Verma**, Instructor 1, Cases in Pharmaceutical Sciences (CAPS), Year 3

- The exchange of scholarly information including research papers, indices to theses, and books on relevant subjects.
- The exchange of invitations to attend scholarly and technical meetings, forums and conferences.
- Joint conferences, seminars, workshops and exhibitions.
- Review of other possible areas of cooperation in a variety of research and academic projects.



Professor Stephen J. Toope, President of UBC and Professor Ralf Hemmingsen, Rektor Copenhagen University witness Deans Sven Froekjaer and Robert Sindelar signing the Statement of Cooperation.

First expanded class welcomed at the 2011 White Coat Ceremony

On September 9, 2011 the Faculty welcomed its first expanded class at the annual White Coat Ceremony. This year 224 incoming students were admitted, an increase of 47% over previous years.



Marion Pearson leads incoming students in reciting the Pharmacy Pledge of Professionalism.

Recent Awards and Honours

Dr. Larry Lynd - Peter Wall Institute of Advanced Studies Scholar.

Dr. Kishor Wasan - AAPS Faculty Advisor Award.

Tony K.L. Kiang, PhD (postdoctoral fellow) - Best Poster Award, Child & Family Research Institute's Student Research Forum.

Wes Wong - Service to Research Community Award.

Laura Bandy, Sam Gilchrist, Leon Wan, Maryam Zamiri, Dr. Kevin Letchford, Dr. Naresh Thumati, and Dr. Helen Fleisig - Outstanding Service Award.

Laura Bandy, Elke Huber, Natalie McCormick, Lilla Roy, Sajad War, and Kangbin Zhou - Teaching Assistant Appreciation Award.

Dr. David Grierson - Pharmaceutical Sciences Award for Excellence in Translational Graduate Teaching

Publications Update

Black E, Lau TTY, Ensom MHH. Vancomycin-Induced Neutropenia: Is it Dose- or Duration-Related? *Ann Pharmacother*. 2011;45:629-38. DOI 10.1345/aph.1P583.

Davis JC, Marra CA, Robertson MC, Najafzadeh M, Liu-Ambrose T. Sustained Economic Benefits of Resistance Training in Community – Dwelling Senior Women. *J Am Geriatr Soc* 2011 Jun 30. doi: 10.1111/j1532-5415.2011.03473.x [Epub ahead of print]

Ellert G, Low A, and Wade JP. The Osteoporosis Book: Bone Health. 3rd ed. Vancouver, Canada: Trelle Enterprises; 2011.

Ensom MHH, Decarie D, Rudolph S. Stability of Levetiracetam in Extemporaneously Compounded Suspensions. *Can J Hosp Pharm*. 2011;64:207-11.

Kagan L, Gershkovich P, Wasan KM, Mager DE. Physiologically based pharmacokinetic model of amphotericin B disposition in rats following administration of deoxycholate formulation (fungizone®): pooled analysis of published data. *AAPS J*. 2011 Jun;13(2):255-64. Epub 2011 Mar 23. PMID: 21431453.

Loewen P, Dahri K. Risk of bleeding with oral anticoagulants: an updated systematic review and performance analysis of clinical prediction rules. *Annals of Hematology*. 2011:1-10-10.

Low, A. Shared decision-making: Helping your patients decide. *Canadian Pharmacists Journal*: May 2011, Vol. 144, No. sp1, pp. S23-S23.

DALHOUSIE UNIVERSITY

Academic appointments, promotions, resignations, retirements

We wish **Dr. Neil MacKinnon** well as he begins his new appointment at the University of Arizona as Professor & Walter H. Pearce Endowed Chair. He is also the Director, Center for Rural Health. We certainly miss Neil, his wife Leanne and their three daughters, but are pleased to know they are settling-in in Tucson, where they are closer to Leanne's family.

Individual faculty news

Dr. Anne Marie Whelan was recognized for her many contributions to AFPC over the years by being awarded a Woods-Hughes Special Service Award in June 2011.

In May 2011, **Dr. Anne Marie Whelan** was presented with the Faculty of Health Professions Teaching Excellence Award. This annual award recognizes the importance of teaching to the Faculty and honours an

outstanding teacher who embodies the finest aspects of exemplary teaching.

Dr. David Gardner was honoured by the Class of 2011 by being chosen as the recipient of the Dr. Jessie I. MacKnight Award for Excellence in Teaching. David also received this award in 1999, 2000 and 2006.

Dr. David Jakeman was honoured by the Faculty of Health Professions in May 2011, by being awarded a Junior Research Award. This Award recognizes outstanding research leading to significant progress in the understanding and/or management of a health related problem by a faculty member within ten years of initial appointment.

On May 12, 2011, **Dr. Ingrid Sketris** was recognized in the Nova Scotia Legislature for her leadership and contributions in health services research.

The annual conference of the Canadian Association for Health Services and Policy Research (CAHSPR) was held May 9 - 12, 2011 in Halifax. **Dr. Ingrid Sketris**, Professor, College of Pharmacy and Steven Lewis, President, Access Consulting Ltd. served as co-chairs of the conference. Nearly 500 registrants attended with some from as far away as Australia and New Zealand.

Dr. Peter Zed is the recipient of the 2011 School of Pharmacy Alumni Achievement Award from Memorial University of Newfoundland. This award is given in recognition of significant accomplishments in the fields of pharmacy practice and education and for exceptional human values that are an inspiration to those with whom they come in contact. This is the highest honour the MUN School of Pharmacy can bestow upon one of its graduates.

Dr. Peter Zed delivered the following invited presentations:

- Evidence-Based Medicine in Cardiovascular Disease. Canadian Cardiovascular Pharmacists Network (CCPN) 6th Annual Atlantic Canada Fall Symposium, Contemporary Therapeutic Issues in Cardiovascular Disease, Halifax, NS, October 1, 2011

- Antimicrobial Myths and Underappreciated Dangers. Canadian Association of Emergency Physicians, Annual Scientific Meeting, St. John's, NL, June 6, 2011
- Infectious Disease Management in Emergency Medicine, Canadian Association of Emergency Physicians Infectious Disease Roadshow, Canadian Association of Emergency Physicians Annual Scientific Meeting, St. John's, NL, June 3, 2011

Grants

An NSHRF Innovation Grant to study "Cardiovascular protection of anti-cancer drugs" (2012 - 2013) has been awarded to PKF Yeung, R Agu and Z Xu.

Other

The Canadian Institute of Health Research recently posted on their website: *Research Profile – Prescription for the Future*, highlighting the changing role of the pharmacist. **Ingrid Sketris**, Lisa Dolovich, Carlo Marra, Michael Law and Ross Tsuyuki each provide a perspective. To read the articles link to: <http://www.cihr-irsc.gc.ca/e/43748.html>.

L'UNIVERSITÉ LAVAL

Individual Faculty News

Dr. Roxane Pouliot and three other researchers from other faculties received a \$ 451 500 grant from the CIHR / NSERC collaborative research program to study polyphenols from the bark of trees for the treatment of psoriasis.

Dre Thérèse Di Paolo received a \$ 315 086 grant from the CIHR entitled "*Bioavailable plasmalogen precursors in models of Parkinson's disease.*"

A diet rich in omega-3 reduces the neuroinflammatory response and severity of brain damage after a stroke, according to a study led by Jasna Kriz from the faculty of medicine and **Frédéric Calon** from our faculty, which was broadcasted by the media. Details of the study are published on the website of the journal *Stroke*.

General Faculty News

Simon Lessard who graduated in 1998 received the 2011 Innovation Award from the Ordre des pharmaciens du Québec for providing innovative pharmaceutical care.

On June 8, 2011, **Mr. Yves Gariépy** received the Prix Mérite du Conseil interprofessionnel du Québec (CIQ). A pharmacist by profession and a graduate of the Faculty of Pharmacy of Laval University in 1965, Yves Gariépy has worked both as a clinician, a manager, a teacher, and an advisor to pharmaceutical companies.

Appointments and Promotions

Professors **Frédéric Calon**, **Roxane Pouliot** and **Carmen Vézina** were promoted to full Professors on 1 June 2011.

On May 18, 2011, the Board of Laval University confirmed the appointment of **Dr. Jean Lefebvre** to the position of Dean of the Faculty of Pharmacy, for a term of four years from 1 July 2011. A graduate in Pharmacy from Université Laval, Jean Lefebvre, an expert in the pharmacotherapy of cardiovascular diseases, has practiced pharmacy in the community and in hospitals.

Students

Students forming the group "Pharmaide" raised \$ 1,510 for a mission of Pharmacists Without Borders Canada (PSF) in Haiti.

Nicolas Morin and Dany Arsenault successfully defended their thesis.

Dr Alexandre Dal-Pan obtained a \$81 000 fellowship from the Alzheimer Society Canada to support his postdoctoral work with **Dr Calon**.

Events

On Monday, June 6, 2011, the Faculty of Pharmacy held its charity golf tournament. This 16th edition was held under the honorary presidency of **Ms. Marie-Claude Racine**, an alumna from our faculty. More than 130 golfers met this year at club Lévis.

Our dean, **Dr. Jean-Pierre Grégoire**, presided over the opening of the "Cercle de la Faculté de pharmacie de l'Université Laval", during a ceremony held Wednesday, June 15, 2011. The Cercle de la Faculté main aim is to promote the development of a philanthropic culture within the Faculty and to develop and maintain a tie between graduates and their Alma Mater.



The Faculty of Pharmacy has concluded a partnership agreement with XD3 Solutions and Rx Vigilance to provide access to student and staff to key pharmacy softwares.

A celebration was held on May 10 2011 to recognize a \$ 2.5 million gift from the Marcelle and Jean Coutu Foundation to support part of the costs associated with the expansion and renovation of the pavilion of Health Sciences of Laval University.

Part of their campaign entitled «un p'tit coup de pouce» to support the faculties of pharmacie from the province of Quebec, Familiprix contributed \$ 280,500 to the development of our doctoral program.



A celebration was held on June 15 2011 to underscore a gift of 20 000\$ from Laurier Lavoie to our faculty.



Upcoming events - 2011

Symposium of the Faculty of Pharmacy UL: October 14

Ceremony scholarships: November 8

Dinner reunion Oct. 29: Top graduates from 1986 and 2006 promotions

Day pharmacotherapy: December 1

Evening of wine in the spotlight: April 21, 2012

UNIVERSITY OF MANITOBA

Academic Appointments

The Faculty of Pharmacy, University of Manitoba is pleased to announce the appointment of **Dr. Neal Davies** as Dean effective September 1, 2011.

Dr. Neal Davies received his undergraduate degree in Pharmacy from the University of Alberta in 1991. In 1996, he completed his Ph.D. in pharmaceutical sciences, specializing in pharmacokinetics, at the University of Alberta. From 1995 to 1998, he undertook postdoctoral training in pharmacology and toxicology at the University of Calgary. He then joined the University of Sydney as a lecturer in 1998. In 2002, he returned to North America to join Washington State University's (WSU) College of Pharmacy as an academic staff member. There he held the positions of Director of the Pharmaceutical Sciences Graduate Program, as well as Director of Professional and Undergraduate Research and Director of Summer Undergraduate Research Fellowship program. In these roles, he was involved in



several administrative and operational initiatives including: strategic planning, faculty accreditation review processes, organization of the college retreat, establishment of a pharmaceutical sciences graduate program, and initiation of the development of a comprehensive knowledge exam for the college's PharmD program. Dr. Davies also championed the development of a college-wide Pharmacy Research Day and played key roles in faculty and graduate student recruitment and success. He was active on numerous university-wide committees, including service as a member of WSU's Faculty Senate and Chair of the Institutional Animal Care and Use Committee.

Throughout his tenure at WSU, Dr. Davies strived to maintain the highest standard of teaching and research, and his achievements in both areas have been recognized through numerous awards and honours including several from the United States Pharmacopeia. He has taught at the undergraduate and graduate levels, and has an ongoing and significant commitment toward graduate supervision and training. At the forefront of the use of technology in the classroom, Dr. Davies has re-engineered curricular content and maintained a high standard in student mentoring. Dr. Davies also maintains an active and highly collaborative externally-funded research program, focused on pharmacokinetics and drug delivery as well as basic and clinical pharmaceutical sciences, which have attracted National Institutes of Health and Industry funds. He holds five patent applications and has disseminated his work broadly through numerous journal publications, book chapters, abstracts, and invited conference presentations.

Dr. Davies has been a registered pharmacist with the Alberta College of Pharmacists since 1991. He is active in numerous professional organizations/associations, including the Canadian Society of Pharmaceutical Sciences and the American Association of Pharmaceutical Scientists, and serves as a reviewer and on the editorial board of several pharmaceutical and pharmacological science journals.

Dr. Harris Iacovides was appointed to a probationary position as Assistant Professor in the Faculty of Pharmacy beginning July 1, 2011. Dr. Iacovides completed the majority of his academic training at the University of Manitoba obtaining a BSc in Microbiology in 1999, BSc(Pharm) in 2003 and MSc(Pharm) in 2006. Dr. Iacovides obtained his PharmD at the University of Toronto in 2010. Iacovides was also an instructor at the Faculty in the 2010-11 academic year for the undergraduate clinical courses.

Ms Drena Dunford joined the Faculty effective August 15, 2011 as a full-time clinical instructor. She began her post-secondary education at the University of Waterloo, earning a Bachelor of Science (Honours) with a Minor in Biology in 1999. Drena then attended and graduated from the University of Toronto in 2003 with a Bachelor of Science in Pharmacy. She began her career as a Pharmacist working at Shoppers Drug Marts in Winnipeg. Primarily, she worked at the Unicity location where she had previously worked as a summer student. In 2006, Drena accepted a new position and began working at the primary care medical clinic located on 17 Wing, Canadian Forces Base Winnipeg (namely 23 Health Services Centre). As a civilian, she filled a unique role which encompassed numerous facets of a pharmacist's position. In 2008, Drena obtained the status of a Certified Diabetes Educator. Education has always been important to Drena, and due

to that commitment, for the past 3 years she has earned the Certificate of Achievement in Life Long Learning In Pharmacy from the Professional Development Committee of the Manitoba Pharmaceutical Association.

Ms Sheila Ng joined the Faculty of Pharmacy on August 15, 2011 as a part-time Pharmacy Practice Instructor. She graduated from the University of Manitoba in 2004 with a Bachelor of Science in Pharmacy. After graduation she was licensed with the College of Pharmacists of British Columbia and practiced with Shopper's Drug Mart in Powell River, BC. There she was involved in delivering a wide range of pharmaceutical services including methadone maintenance therapy and medication management; and was actively involved in collaborative care with the local First Nations health authority, long-term care and extended care facilities. She also participated in public education delivering education in-services to nursing staff and health information seminars in the community. She looks forward to continuing her community practice in Winnipeg.

Ms Grace Frankel joined the Faculty of Pharmacy on September 19, 2011 as a part-time Pharmacy Practice Instructor. She graduated from the University of Manitoba in 2009 with a Bachelor of Science in Pharmacy. She is currently working on her doctorate of Pharmacy (University of Toronto).

Individual Faculty News

Dr. Silvia Alessi-Severini was granted Tenure effective July 1, 2011.

Awards

Dr. Hope Anderson, Associate Professor, was the recipient of a 2010 Merit Award in the Combination category. The award is from the University of Manitoba and the University of Manitoba Faculty Association.

Grants

Dr. Hope Anderson was awarded a CIHR grant for a total of \$357,492 over 3 years for her grant entitled

“Protective signaling by PPARs in cardiac hypertrophy”.

Dr. Emmanuel Ho, Assistant Professor, was awarded a grant from The Dr. Paul H. T. Thorlakson Foundation Fund in the amount of \$28,000 for his research project entitled *“Novel nanomedicine for the active targeting of lymphoid tissue”.*

Dr. Mike Namaka, Associate Professor, was awarded a grant from Pfizer Canada Inc. in the amount of \$99,991 for his research project entitled *“Effect of pregabalin on pain behaviours in rat sciatic nerve axotomy model”.*

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

School News

School of Pharmacy releases 2010-2011 annual report: High demand for increased enrolment, extreme space shortages highlighted by Dean Hensman (Memorial University News Release – Sept 17, 2011 - <http://on.fb.me/qJDEmu>) Copies of the report are available on the school's website: : www.mun.ca/pharmacy

The School of Pharmacy released its 2010-2011 annual report during the Pharmacists' Association of Newfoundland and Labrador's (PANL) annual conference held in St. John's. In addition to its annual overview of school, student and faculty achievements, the report highlighted the current challenge faced by the school to meet the high demand for increased enrolment coupled with an extreme space shortage.

Dean Linda Hensman addressed the province's pharmacy community at PANL's gala conference dinner, noting that "inadequate classroom, laboratory, office and gathering spaces restrain our capacity to enhance a teaching and learning environment that will meet the future pharmacy needs of the province."

Don Rowe, the secretary-registrar of the Newfoundland and Labrador Pharmacy Board (NLPB), agreed. "The future is always difficult to predict, particularly when it comes to an issue such as human resources requirements for the health professions, and even more

so at this point in time when significant changes are occurring in the scope of practice of pharmacists... However, according to current registrations with the NLPB, 32 per cent – that's 215 – of the pharmacists in this province are at or near retirement age. With the current rates of enrolment at the School of Pharmacy, it worries me that it would take almost a decade to fill those vacancies, let alone allow for growth in the profession." "The demands on the provincial pharmacy community are growing," said Mary Ann Butt, PANL's executive director. "Everyone knows that the demographics are shifting towards an aging population," added PANL president Rick Elliott. "With this shift will come an increased demand for pharmacy services in our province – and our membership will be on the frontlines."

Dr. Hensman said that the prescription for this problem is one that no pharmacy can fill. "We are preparing for expansion right now as best we can...through the hiring of new faculty and staff, and by establishing a temporary off-site office location for our clinical faculty. We recognize that there is a shortage of space for academic units across the St. John's campus and are pleased that the ongoing space planning effort at the university includes additional space for the school. I am confident that we can achieve the twin goals of expansion of the school and sufficient permanent space in which to house it."

Other School News

- School of Pharmacy opens off-campus location at Tiffany Court (today.mun.ca – Jul. 2011 - <http://bit.ly/oisApu>)
- The Prescription (SOP Newsletter – Summer 2011 - <http://bit.ly/n6S5BG>)
- Memorial University's School of Pharmacy kicks off silver anniversary year (today.mun.ca – Sept. 2011 - <http://bit.ly/pbB7iY>)
- Pharmacy school hopes to expand soon (Sept. 2011 - The Telegram - <http://on.fb.me/n17vsS>)
- Pharmacy school needs more space (Sept. 2011 - CBC.ca - <http://yhoo.it/r54gRR>)
- Dr. Linda Hensman delivers a "State of the Union" address that brings everyone to their feet in applause (Oct. 2011 – PANL's Advocacy News - <http://on.fb.me/nzf5li>)

2011 Bowl of Hygeia Award Winner (Oct. 2011 – PANL's Advocacy News - <http://on.fb.me/nkZDxm>)

Two faculty members received honours during the PANL 2011 Annual Conference and Awards Ceremony held in September: **Dr. Scott Edwards** received the Nycomed Magnum Opus Award that recognizes pharmacists who have completed specialty education or training and who, as a result, have successfully expanded their professional practice. Our dean **Dr. Linda Hensman**, was not only honoured with the Alfred G. Dawe Distinguished Service Award from NL Branch of CSHP during their annual meeting on Saturday afternoon, in the evening she received the Bowl of Hygeia Award that recognizes outstanding community service through pharmacy. This is the most prestigious award in North America, with only one being presented each year in each province and state.

Appointments and Promotions

Memorial University's Board of Regents recently approved a change in title of all academic directors to deans. As such, **Dr. Linda Hensman** is now our dean for the school, **Dr. Mohsen Daneshtalab** is now our associate dean of graduate studies and research, and **Dr. Leslie Phillips** is now our associate dean of undergraduate studies.

Dr. Jason Kielly has moved into the position of president of the Canadian Society of Hospital Pharmacists (CSHP-NL branch) and has accepted a position on the Expert Advisory Committee for the Atlantic Common Drug Review.

Dr. Leslie Phillips was promoted to Professor, effective September 1, 2011.

Dr. Erin Schwenger was appointed to a tenure track appointment in Pharmacy Practice, effective August 1, 2011.

Dr. Barbara Thomas has accepted a 12 month term appointment as 0.25 clinical assistant professor with the department of psychology, teaching psychopharmacology to the third year students in the doctorate of clinical psychology program at Memorial University. This appointment came into effect in September 2011.

Publications

Bader M.S., Abouchehade K.A., Yi Y., Haroon B., **Bishop L.D.** and **J. Hawboldt**. "Antibiotic administration longer than eight hours after triage and mortality of community-acquired pneumonia in patients with diabetes mellitus," in *European Journal of Clinical Microbiology and Infectious Diseases*, 30:7 (2011) pp 881-6.
<http://www.springerlink.com/content/a778885163583636/>

Abbott R., **Edwards S.**, Edwards J., Dranitsaris G. and J. McCarthy. "Oral anti-cancer agents in the community setting: A survey of pharmacists in Newfoundland and Labrador," in *Canadian Pharmacists Journal*: 144:5 (2011) pp 220-6.
<http://www.cpjournal.ca/doi/pdf/10.3821/1913-701X-144.5.220>

Bader M., **Hawboldt J.** and **L. Twells**. "Risk Factors of Cellulitis Treatment Failure with Once-daily Intravenous Cefazolin plus Oral Probenecid," in *Southern Medical Journal* (2011). (in press)

Kielly J. "Alzheimer's disease: updates in diagnosis, management and treatment," in *Pharmacy Practice*: 27 (2011) pp CE1-9.

Law R.M., Law D.T.S. Chapter 105: Dermatologic Drug Reactions and Common Skin Conditions. In *Pharmacotherapy: A Pathophysiologic Approach, 8th edition*. Ed: DiPiro J, Talbert R, Yee G et al., McGraw-Hill Medical Publishing Division, NY. (2011), pp. 1661-1672. ISBN 978-0-07-170354-3

Law R.M., Gulliver W.P. Chapter 107: Psoriasis. In *Pharmacotherapy: A Pathophysiologic Approach, 8th edition*. Ed: DiPiro J, Talbert R, Yee G et al. McGraw-Hill Medical Publishing Division, NY. (2011), pp. 1693-1706. ISBN 978-0-07-170354-3

Law R.M., Kwa P.G. Chapter 108: Atopic Dermatitis. In *Pharmacotherapy: A Pathophysiologic Approach, 8th edition*. Ed: DiPiro J, Talbert R, Yee G et al. McGraw-Hill Medical Publishing Division, NY. (2011), pp. 1707-1716. ISBN 978-0-07-170354-3

Law R.M. Chapter 108: Cutaneous Reaction to Drugs. In *Pharmacotherapy Casebook: A Patient-Focused Approach, 8th edition*. Ed: Schwinghammer, T. and Koehler J. McGraw-Hill Medical Publishing Division, NY, Instructor's Guide on the McGraw-Hill Medical website. (2011), pp. 285-287. ISBN 978-0-07-174626-7

Law R.M., Gulliver W.P. Chapter 109: Acne Vulgaris. In *Pharmacotherapy Casebook: A Patient-Focused Approach, 8th edition*. Ed: Schwinghammer, T. and Koehler J. McGraw-Hill Medical Publishing Division, NY, Instructor's Guide on the McGraw-Hill Medical website. (2011), pp. 287-288. ISBN 978-0-07-174626-7

Law R.M., Gulliver WP. Chapter 110: Psoriasis. In *Pharmacotherapy Casebook: A Patient-Focused Approach, 8th edition*. Ed: Schwinghammer, T. and Koehler J. McGraw-Hill Medical Publishing Division, NY, Instructor's Guide on the McGraw-Hill Medical website. (2011), pp. 289-291. ISBN 978-0-07-174626-7

Law R.M., Kwa P.G. Chapter 111: Atopic Dermatitis. In *Pharmacotherapy Casebook: A Patient-Focused Approach, 8th edition*. Ed: Schwinghammer, T. and Koehler J. McGraw-Hill Medical Publishing Division, NY. Instructor's Guide on the McGraw-Hill Medical website. (2011), pp. 291-293. ISBN 978-0-07-174626-7

Law R.M. Chapter 140: Candida Vaginitis. In *Pharmacotherapy Casebook: A Patient-Focused Approach, 8th edition*. Ed: Schwinghammer, T. and Koehler J. McGraw-Hill Medical Publishing Division, NY. Instructor's Guide on the McGraw-Hill Medical website. (2011), pp. 357-359. ISBN 978-0-07-174626-7

Suter E., Lait J., MacDonald L., Wener P., **Law R.**, Khalili H., McCarthy P. "A strategic approach to building research capacity in interprofessional education and interprofessional collaboration" in *Healthcare Quarterly*. 14:2 (2011) pp. 55-60a. http://www.longwoods.com/content/22381?utm_source=Longwoods+Master+Mailing+List&utm_campaign=f6e5f65584-HQ_14_2_TOC_alert5_20_2011&utm_medium=email

Phillips L. and **C. Dillon**. "Antipsychotics" in *Clinical Handbook of Psychotropic Drugs*, 19th revised edition, ed: A.S. Virani, K.Z. Bezchlibnyk-Butler, J.J. Jeffries

Presentations

Bishop L.D. and **A. Conway**. "Pharmaceutical Care: What's happening in community pharmacy in Newfoundland and Labrador," Pharmacists Association of Newfoundland and Labrador Conference (2011), St. John's, NL. (oral)

Ahmed A. and **M. Daneshtalab**. "Polycyclic quinoline-based compounds as potential anticancer agents: synthesis and biological evaluation," 23rd International Congress on Heterocyclic Chemistry (2011), Glasgow, Scotland. (oral)

Edwards, S. "A Collaborative Approach to Optimizing Patient Outcomes and Managing Safety" Canadian Association of Nurses in Oncology Annual Conference (2011), Halifax, NS. (oral)

Edwards, S. "Management of Adverse Events With Oral Therapies in Advanced Breast Cancer" Canadian Association of Nurses in Oncology Annual Conference (2011) Halifax, NS. (oral)

and R.M. Procyshyn. Hogrefe Publishing, Cambridge, MA (2012), pp 84-173. ISBN-13: 978-0889373952

Phillips L. and **C. Dillon**. "Agents for Treating Extrapyramidal Side Effects" in *Clinical Handbook of Psychotropic Drugs*, 19th revised edition, ed: A.S. Virani, K.Z. Bezchlibnyk-Butler, J.J. Jeffries and R.M. Procyshyn. Hogrefe Publishing, Cambridge, MA (2012), pp 174-183. ISBN-13: 978-0889373952

Twells L.K., Bridger T., Knight J.C., Alaghebandan R. and B. Barrett. "Obesity predicts primary health care visits: a cohort study," in *Population Health Management* (2011). (in press)

Twells L.K. and L.A. Newhook. "Obesity prevalence estimates in a Canadian regional population of preschool children using variant growth references," in *BMC Pediatrics* 11:21 (2011). <http://www.biomedcentral.com/1471-2431/11/21>

Young S., Bishop L., Twells L., Dillon C., Hawboldt J. and P. O'Shea. "Comparison of Pharmacist Managed Anticoagulation with Usual Care in a Family Medicine Clinic," in *BMC Family Practice* 12:88 (2011). <http://www.biomedcentral.com/1471-2296/12/88>

Edwards, S. "The Challenges and Opportunities of Oral Chemotherapy" Keynote speaker. Oral Chemotherapy Workshop (2011), Winnipeg, MB. (oral)

Edwards, S. "Antiemetics: What Should We Use & Who Should Get Them?" (2011) St. John's, NL. (oral)

Law R.M. "Drug use in the elderly: Issues and Complications". Newfoundland and Labrador Gerontological Nurses' Association Education Conference (2011), St. John's, NL (oral)

Twells L.K., Knight J., Alaghebandan R., MacDonald D., Bridger T. and B. Barrett. "Obesity and its impact on a provincial health system in Canada," Canadian Obesity Summit (2011), Montreal, PQ. (poster)

Young S., Bishop L.D. and **A. Conway**. "Interventions Performed By Community Pharmacists in Newfoundland and Labrador (NL)," Canadian Pharmacists Association Conference (2011), Montreal, PQ. (poster)

Grants

Stringer K., **Dillon C.**, Cahill D., Knight J., Sinnott-Drover A., Asgari S., Godwinn M., Aubrey K. and C. Bethune. "Home visits – Optimizing Medical care in the Elderly (HOME Study): A pilot study on the effects of an interprofessional primary care program on emergency room visits and hospital admissions in the frail elderly," Medical Research Foundation, Memorial University, \$10,000.

Edwards, S. (PI). "Prospective validation of risk prediction indexes designed to identify patients at high risk for acute and delayed chemotherapy induced nausea and vomiting (CINV)" Memorial University School of Pharmacy Undergraduate Research Fellowship, \$5000.

Twells L. (PI), Newhook L. (co-investigator), Burrage L. (co-investigator), Murphy-Goodridge J. (co-investigator) Murphy P. (co-investigator), Edwards N. (co-investigator) and B. Halfyard (co-investigator). "Café Scientifique: New Directions in Breastfeeding Research in NL," Canadian Institutes of Health Research Café Scientifique, \$3000.

Drover A. (PI), Newhook L., Murphy-Goodridge J., **Twells L.** and R. Chafe. "Does increased Health Professional Education improve hospital compliance with the Ten Steps of the Baby Friendly Hospital Initiative?" Janeway Foundation, \$15,000.

Twells L. (PI), Gregory D., Midodzi W., MacDonald D., Hatfield E., Kovacs C., **Dillon C.**, Pace D., Boone D. and E. Warren. "The NL Bariatric Surgery Cohort Study," Newfoundland and Labrador Centre for Applied Health Research, \$40,000.

Newhook L. (PI), **Twells L.**, Burrage L., Murphy-Goodridge J., Murphy P., Edwards N., Halfyard B. and V. Ludlow. "A Prospective Cohort Study on the maternal and infant nutritional risk factors for initiation, early weaning and suboptimal duration of breastfeeding in NL," Healthcare Foundation, \$5,000.

Gregory D. (PI), **Twells L.** (co-investigator), Hatfield E. (co-investigator) and D. Pace (collaborator). "Waiting for Bariatric Surgery: A Qualitative Study," Healthcare Foundation, \$10,000.

UNIVERSITY OF WATERLOO

School News

Dr. David Edwards began his appointment as Hallman Director of the School of Pharmacy on June 1, 2011. Dr. Edwards had been Chair of the Department of Pharmacy Practice at Wayne State University since 2003. He is a graduate of University of Toronto (BScPhm), State University of New York at Buffalo (PharmD) and Wayne State University (MPH).

The Vanguard graduating class completed their curricular requirements in August and will formally become the first graduates of the School of Pharmacy at the fall convocation on October 22, 2011. A pre-convocation reception is planned to honour this special group of students who helped turn the vision for the program into reality. We look forward to their continuing contributions as our first alumni. Vanguard students celebrated at a dinner/dance and awards night in August. The keynote speaker was Olavo Fernandes, Director of Clinical Pharmacy at the University Health Network. Award recipients included Faiza Ahmad-Butt (Academic Excellence), Naomi Dore (Community

Engagement), Mathew DeMarco (Undergraduate Student Experience), Ashley Gubbels (Co-operative Education), Sheri Howard (Future of Pharmacy), John Thai and Jeannine Oliver (SOPHS Leadership) and Bridget Braceland (Valedictorian). Faculty member **Cynthia Richard** received the Student Support Recognition Award.

In August, six UW pharmacy students traveled to Zimbabwe as part of a global medical aid team. The students spent time at Howard Hospital in Harare providing in-service education for staff and assisting with inventory management. The mission was led by **Veneta Anand** and **Venita Harris**.

The student team of Alia Thawer, Calvin Poon, Catherine Prochazka, Vanessa Raco and Mihir Patel were this year's winners of the PharmaSave Industrial Case Competition. The competition was organized by **Roderick Slavcev**, Shoppers Drug Mart Professor in Business and Entrepreneurship.

Appointments

Colleen Maxwell, PhD, was appointed as Professor (with tenure) in July 2011. Dr. Maxwell received a PhD from the Faculty of Applied Health Sciences at the University of Waterloo in 1995 and was most recently a faculty member in the Faculty of Medicine at University of Calgary. Colleen is an internationally recognized scholar with expertise in pharmacology, epidemiology and the epidemiology of Alzheimer's Disease and related disorders.

Eric Schneider joined the school in September 2011 as a tenured Associate Professor. Dr. Schneider is a graduate of the St. Louis College of Pharmacy (Bachelor of Science in Pharmacy) and Medical University of South Carolina (PharmD). Prior to joining the faculty at University of Waterloo, he was Associate Professor at University of Arkansas for Medical Sciences and Associate Dean for the Northwest Regional Campus in Fayetteville. His areas of interest include curricular assessment and chronic disease management in primary care.

Grants

CIHR Operating Grant (PI **Jamie Joseph**) - May 2011-April 2016; \$600K (5 years). "*The role of anaplerosis in glucose-stimulated insulin release*".

CIHR Operating Grant (Co-applicant **Jamie Joseph**) - Sept 2010-August 2015; \$560K (5 years). "*The Role of Sarcolipin in Thermogenesis, Diet-induced Obesity and Glucose Intolerance*".

Shawn Wettig received a 5 year NSERC Discovery Grant for his project "*Pluronic-based nanoparticles as novel DNA transfection vectors*".

Feng Change received funding from the RBC Retirement Research Undergraduate Fellowship at University of Waterloo and from the Huron East/Seaforth Community Development Trust.

Certina Ho received a grant from the University of Waterloo Learning Initiatives Fund (LIF) Grant to study "*Learning of evidence-based medicine and critical appraisal in undergraduate pharmacy students: Phase I – Effectiveness of voluntary student-driven journal clubs*". Co-investigators include Olla Wasfi and Mary Power.

Gayle Sadler arrived at the School of Pharmacy in July 2011 from a broad and extensive career in healthcare and business management. As a registered nurse, she received her BSc from Adam Smith University, New York and her MBA from Queen's University, Kingston. She is registered with the College of Nurses of Ontario and sits on the board of Hospice of Waterloo Region. As a strategic and innovative leader, she will build the Continuing Professional Education department to support the academic reputation of the School of Pharmacy.

Barb Coulston recently joined the school as Adjunct Clinical Assistant Professor. Barb is a graduate of the University of Toronto and has many years of experience as a hospital pharmacist and interprofessional educator. She previously served as Educational Coordinator with the Leslie Dan Faculty of Pharmacy in Toronto.

Publications

Tarek Mohamed, **Praveen P. N. Rao** Alzheimer's disease: Emerging trends in small molecule therapies. *Current Medicinal Chemistry* (2011) 18: 4299-4320.

Tarek Mohamed, **Praveen P. N. Rao** Current and emerging at-site pain medications: A review. *Journal of Pain Research* (2011) 4: 279-286.

Rahim, M. R., **Praveen P. N. Rao.**, Bhardwaj, A., Kaur, J., Huang, Z., Knaus, E. E. Isomeric acetoxy analogs of celecoxib and their evaluation as cyclooxygenase inhibitors. *Bioorganic and Medicinal Chemistry Letters* (2011) 21: 6074-6080.

Tarek Mohamed, Jacky C K Yeung, **Praveen P N Rao** Development of 2-substituted-N-(naphth-1-ylmethyl) and N-benzhydrylpyrimidin-4-amines as dual cholinesterase and Aβ-aggregation inhibitors: synthesis and biological evaluation. *Bioorganic and Medicinal Chemistry Letters* (2011) 21:5881-5887.

R. Pillai*, P. Huypens*, M. Huang, S. Schaefer, T. Sheinin, S.D. Wettig and **J.W. Joseph**. ARNT/HIF-1β plays a critical role in maintaining glucose competence of insulin secreting pancreatic β-cells. *Journal of Biological Chemistry* (2011) 286(2):1014-24.

Huypens P., R. Pillai, T. Sheinin, S. Schaefer, M. Huang, M.L. Odegaard, S.M. Ronnebaum, S.D. Wettig, **J.W. Joseph**. The dicarboxylate carrier plays a role in mitochondrial malate transport and in the regulation of glucose-stimulated insulin secretion from pancreatic β -cells. *Diabetologia* (2011) 54(1):135-145.

Sidhu P, Peng H, Cheung B, **Edginton AN**. Simulation of differential drug pharmacokinetics under heat and exercise stress using a physiologically-based pharmacokinetic modeling approach". *Can J Physiol Pharmacol.* (2011) 89(5):365-82.

Shawn Wettig, Trnum Kaur, **Roderick Slavcev** and Naser Tavakoli "Calorimetric investigations of non-viral DNA transfection systems" in *Thermodynamics, Book 2*, Juan Carlos Moreno Piraján, Ed. InTech Open Access Publisher, Rijeka, Croatia (2011) ISBN 978-953-307-978-3.

Roderick Slavcev, Trnum Kaur and **Shawn Wettig** "Nanomedicine Based Approaches to Cancer Diagnosis and Therapy" in *Non-Viral Gene Therapy*, Xubo Yuan, Ed. InTech Open Access Publisher, Rijeka, Croatia (2011) ISBN 978-953-307-538-9.

Certina Ho, Neil J. MacKinnon, Todd A. Boyle, Tom Mahaffey, Bev Zwicker, Heidi Deal, Andrea Scobie, Sean Higgins, Roger Cheng, Patricia Hung, Gary Lee. Analysis of Medication Incidents in Community Pharmacy. *American Journal of Pharmaceutical Education* (2011); 75(5): Article 105.

Ho C, Poon C *. Preventing medication order entry errors: A guided approach to solution development in community pharmacy practice. www.CanadianHealthcareNetwork.ca; June 17, 2011 (published online)

Presentations

Jamie Joseph presented at the American Diabetes Association meeting in San Diego. The titles of his presentation were "Replenishment of TCA Intermediates in Pancreatic β -cells Deficient in ARNT/HIF1 β Expression Rescues the Defective Insulin Secretion" and "Novel Insights into Anaplerosis and Insulin Secretion".

Andrea Edginton was invited to present her research, "Using pediatric physiologically based pharmacokinetic models for first-in-children dose guidance" at the International Council for Industrial and Applied Mathematics, Vancouver July 18-22, 2011; the Children's Hospital of Philadelphia, Philadelphia August 22-23, 2011; the Office of Clinical Pharmacology, Food & Drug Administration (FDA), Silver Spring, Maryland August 24, 2011 and the Applied Pharmaceutical Analysis meeting of the Boston Society, Cambridge, Massachusetts Sept 11-14, 2011.

Shawn Wettig presented his research on "Synthesis and aggregation properties of dissymmetric phytanylethyl-gemini surfactants for use as improved DNA transfection vectors", at the 94th Canadian Chemistry

Conference and Exhibition, June 5 – 10, 2011, in Montreal.

Jeff Nagge was invited to present "What, me worry? A review of risk estimation tools for use in Primary Care" at the Annual General Meeting, Canadian Pharmacists' Association in Montreal, Quebec in May 2011.

Feng Change was an invited panelist at the Refining PharmaMarketing Conference in Toronto where she spoke on "Pharmacists in rural primary care". She also gave presentations at the Canadian Pharmacists Association conference ("A five step model for pharmacist intervention in the detection and management of cognitive impairment in rural Ontario") and the American Geriatrics Society Annual Scientific meeting ("Case series of Olanzapine intramuscular use in elderly hospitalized patients").

Certina Ho presented at the American Association of Colleges of Pharmacy meeting in San Diego on her work "Analysis of Medication Incidents in Community Pharmacy". Certina also provided a continuing education session on "Medication Safety 101" at the Annual Pharmacists Association of Newfoundland and Labrador Conference in St. John's.

CAPSI NEWS

On behalf of the Canadian Association of Pharmacy Students and Interns (CAPSI), I would like to take this opportunity to wish everyone a great academic year. By now, pharmacy students across the country have settled back into their classroom routines and are well into the midterm crunch. In addition to their academic obligations, members of the CAPSI National Council work diligently to ensure that our members are provided with various opportunities for educational and professional development through student-led initiatives. It is for this reason that I would also like to briefly highlight some of our key successes and future goals.

The first meeting of the 2011-2012 CAPSI National Council took place this past summer at the CPhA conference held in Montreal, Quebec. At this meeting council members participated in a full-day strategic planning seminar, which resulted in riveting discussions and innovative ideas aimed to better prepare students as they transition to professionals in this changing climate. To help bring these ideas to fruition, our council created three new ad hoc committees in the areas of community outreach, marketing and interprofessional collaboration. Another

Looking forward, CAPSI's annual Professional Development Week (PDW) conference will be hosted by Dalhousie University from January 11th to the 15th, 2012. Here students will be introduced to the 'Oceans of Opportunity' that are available to them as our profession continues to move forward. I have no doubt that the conference will be an outstanding experience for all who attend.

With PDW around the corner, local CAPSI competitions are underway across the country. This year is particularly exciting with the new Evidence Based Practice competition being trialed at select pharmacy schools, with hopes of expansion next year. Other competitions include the Patient Interview Competition, Student Literacy Challenge, the OTC Competition and the Compounding Competition. These

key highlight from CPhA was CAPSI's meeting with Dr. Dennis Gorecki, Blueprint for Pharmacy Steering Committee Chair. I am pleased to report the establishment of a new student position on the Blueprint Steering Committee. The creation of this position will provide a forum to bring forward the unique student perspective on a variety of issues affecting the future of the profession. All pharmacy students are openly encouraged to provide their opinions and ideas via their local CAPSI Representatives. The Association also plans to distribute a national survey to our members to ensure we continue to meet their needs and accurately represent their views.

More recently, CAPSI organized our first national Run for the Cure Campaign. Five pharmacy faculties from across the Country participated in the friendly competition to support breast cancer research and give back to their communities. I am delighted to announce that our CAPSI teams consisted of more than 170 runners and our goal of \$20,000 raised was met! I am optimistic that next year we will be able to engage more faculties and raise further funds this worthy cause.

competitions not only provide students with the chance to apply the skills learnt in the classroom to real world scenarios, but also the opportunity to win national accolades amongst their peers and colleagues.

I hope that I have successfully highlighted some of our recent successes and future goals. As always, your continued support of CAPSI and its student initiatives is greatly appreciated.

Best regards,

Jillian Grocholsky

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