



# AFPC COMMUNICATION

Association of Faculties of Pharmacy of Canada

Association des Facultes de Pharmacie du Canada

**April/May 2010**

**Volume 21 No. 3**

<u><i>Table of Contents</i></u>	
<i>President's Message</i>	<b>1</b>
<i>Executive Director's Corner</i>	<b>2</b>
<i>Faculty Spotlight – University of Alberta</i>	<b>11</b>
<i>Faculty News</i>	<b>16</b>
<i>Contributors &amp; Editor</i>	<b>28</b>

## **PRESIDENT'S MESSAGE**

At present we are finalizing the preparation for the AFPC- First Annual Canadian Pharmacy Education and Research Conference (CPERC) held jointly with the Canadian Society for Pharmaceutical Sciences (CSPS) meeting. The theme for the 2010 conference is "Bringing the Blue Print to Life".

This is a particularly relevant topic given the major changes currently underway in terms of the advanced professional duties that pharmacists are embracing across Canada. As primary care reform continues to evolve, pharmacists are playing more integral roles in patient focused health care delivery. Although pharmacists are recognized drug experts, the drug is merely the vehicle by which pharmacists can use to deliver the desired health care outcomes to their patients. The recent advancements in intra-professional education solidify the importance that the profession of pharmacy has in the complete delivery of health care. Pharmacy educators and scholars have contributed significantly to this evolution, through work on provincial and national task forces and committees, through dissemination of research supporting the value of pharmacists in primary care and through educating the next generation of practitioners to the highest possible standards that are in line with societal expectations. The 2010 conference will allow us the opportunity to reflect on our accomplishments and identify our current priorities that will form the foundation for change in pharmacy education and scholarship as evident by the Blue Print document.

On behalf of the entire Association, I would like to thank the Vancouver organizing committee, and in particular Simon Albon, for their hard work in organizing this meeting. We are privileged to be able to share our conference with CPERC & CSPS and I look forward to the dialogue that such joint meetings foster.

On a personal note, this AGM marks the end of my term as President of your Association. It has been a privilege to have worked with the council on a variety of key issues involved in pharmacy education that will advance our profession to a whole new era of pharmacy practice. AFPC's leadership in finalizing a new set of educational outcomes and competencies will add new dimensional depth to pharmacy practice resulting in a new standard of patient centered care.

The incoming President Dr. Lalitha Raman-Wilms will continue this momentum, and I look forward to working with her in the future. I would also like to thank Dr. Frank Abbott, our Executive Director. Dr. Abbott's tireless efforts on behalf of the organization, his organizational skills and above all his sense of humour have been invaluable to our organization. I would also like to express my warmest wishes to Dr. Abbott on his retirement from AFPC. On behalf of the Association, I would also like to extend a warm welcome to the incoming Executive Director Dr. Harold Lopatka from the University of Alberta whose motivation and leadership will ensure the future success of AFPC.

For those of you able to attend the AGM, enjoy your time in Vancouver and all the opportunities this wonderful city has to offer. Take time to reconnect with friends, colleagues, new and old acquaintances to celebrate the pharmacy profession.

Mike Namaka, President, AFPC

## EXECUTIVE DIRECTOR'S CORNER

Dear Colleagues and Friends: This will be my last contribution to the newsletter as your executive director. After seven years in this position, for which I am highly appreciative for having the opportunity to serve, the time has come for me to step down. In so doing, it gives me great pleasure to introduce your new executive director through this announcement of the appointment:

### Appointment Announcement

#### Executive Director - Association of Faculties of Pharmacy of Canada (AFPC) / Association of Deans of Pharmacy of Canada (ADPC)



Mike Namaka, President of AFPC and Jake Thiessen, President of ADPC are pleased to announce the successful completion of the search for a new Executive Director. Dr. Harold Lopatka, B.Sc. Pharmacy, MHSA, PhD, pictured here has been appointed

to the AFPC/ADPC Executive Director position effective as of the AFPC Annual General Meeting on June 3, 2010.

Harold currently holds an adjunct professor appointment in the Faculty of Pharmacy and Pharmaceutical Sciences at the University of Alberta in Edmonton. His academic interest is in the area of social and administrative pharmacy. He is also a Certified Health Executive with the Canadian College of Health Service Executives.

\*\*\*\*\*

#### AFPC Conference 2010:

This year's conference is just days away and is shaping up to be an exceptionally good one under the new banner of the Canadian Pharmacy Education and Research Conference (CPERC). Over 100 delegates have registered for AFPC and with the added attendance at CSPS the overall conference should be highly stimulating and informative. AFPC is contributing over 50 poster abstracts with an additional 10 posters coming from the Faculties. For the first time we have a student session on career paths. Many thanks are

owed to the host Faculty of Pharmaceutical Sciences at the University of British Columbia for their resources and support. A special thanks to the program planning committee consisting of Simon Albon (Chair), Frank Abbott, Ingrid Price, David Fielding, Bob Sindelar, Marion Pearson, Wayne Riggs, Stelvio Bandiera, Adam Frankel, Lynda Eccott, Tessa Nicholl, Carlo Marra, Larry Lynd, Colleen Brady, Tamiz Kanji, Suzana Topic and Sam Gilchrist. The schedule of the program follows:

Dr. Frank Abbott, retiring Executive Director, will transition with Harold as the office and duties of the Executive Director are transferred. Welcome Harold!

AFPC - First Annual Canadian Pharmacy Education and Research Conference (CPERC) held jointly with the Canadian Society for Pharmaceutical Sciences (CSPS)

**Draft Schedule**

**June 2-5, 2010**

**Location: River Rock Casino Resort, Vancouver (Richmond), BC**

*“Bringing the Blueprint to Life”*

<b>DAY</b>	<b>ACTIVITY</b>
<b>Wednesday, June 2, 2010</b>	
8:00 am – 5:00 pm	<b>AFPC, PEP Canada, CSPS and CCCP Business Meetings</b> – River Rock Casino Resort (RRCR) - Conference Centre (joint coffee breaks & lunch)
12 noon – 6:00 pm	<b>Exhibitor Set-up</b> (RRCR Theatre - Upper Floor Foyer)
3:30 pm – 7:00 pm	<b>Registration</b> (CPERC & CSPS Registration Desks - RRCR Theatre – Lower Floor Foyer)
5:30 pm – 7:00 pm	<b>Joint CPERC/CSPS Welcome Wine &amp; Cheese Reception</b> (RRCR Theatre - Upper Floor Foyer - <b>Sponsored by Controlled Release Society</b> )
7:00 pm - 10:00 pm	<b>CPERC Opening Dinner &amp; Awards Presentations by Faculty Award Winners</b> (RRCR Conference Centre - Fraser Room)
<b>Thursday, June 3, 2010</b>	
7:30 am – 5:00 pm	<b>Registration</b> (CPERC & CSPS Registration Desks - RRCR Theatre – Lower Floor Foyer)
7:30 am – 5:00 pm	<b>Exhibitors</b> (RRCR Theatre - Upper Floor Foyer)
7:30 am – 8:30 am	<b>Joint CPERC/CSPS Continental Breakfast</b> (RRCR Theatre - Upper Floor Foyer in Exhibit Area)
8:00 am – 6:30 pm	<b>Joint CPERC/CSPS Poster Presentations</b> (RRCR Theatre - Upper & Lower Floor Foyers)
8:30 am – 9:30 am	<b>Joint CPERC/CSPS Plenary Session</b> (RRCR Whistler Ballrooms A&B – <b>Sponsored by FMC Biopolymer</b> ) <b>Keynote Speaker:</b> Dr. Pieter Cullis, University of British Columbia/CDRD, Vancouver, BC <b>“Lipid-Based Nanomedicines: Applications to Conventional Drugs and Genetic Drugs”</b>
9:30 am - 10:00am	<b>BREAK and Poster Viewing</b> (RRCR Theatre - Upper Floor Foyer; CPERC Delegates Move to RRCR Conference Centre – Fraser Room/CSPS Delegates Continue Program in RRCR Whistler Ballrooms)
10:00 am -12:00 pm	<b>CPERC Opening Session – “Framework for the Future – Critical Perspectives on Pharmacy Education &amp; Practice”</b> (RRCR Conference Centre - Fraser Room) <b>Chair:</b> Simon Albon, BSc, MSc, Senior Instructor, UBC Faculty of Pharmaceutical Sciences <b>Speakers:</b>

	<p>- <b>Robert A. Blouin</b>, PharmD, Professor and Dean, UNC Eshelman School of Pharmacy  <b>“Patient Centered Care: Educating the Next Generation of Pharmacists”</b></p> <p>- <b>Patricia (Paddy) Rodney</b>, RN, MSN, PhD, UBC School of Nursing  <b>“Carrying the Blueprint Forward: Promoting Caring and Social Responsibility”</b></p>
12:00 pm – 2:00 pm	<b>AFPC Annual General Meeting &amp; Luncheon</b> (RRCR Conference Centre - Thompson Room)
12:30 pm – 2:00 pm	<p><b>AFPC/CSPS First Annual Graduate Student Trainee Luncheon Session – “Pathfinding in the Pharmaceutical Sciences – Challenges &amp; Rewards of an Academic Career”</b> (RRCR Conference Centre – Capilano &amp; Birkenhead Rooms)</p> <p><b>Chair:</b> Sam Gilchrist, PhD Candidate, UBC Faculty of Pharmaceutical Sciences, Linda Tran, PhD, UBC Faculty of Pharmaceutical Sciences</p> <p><b>Speakers:</b> TBA</p>
2:00 pm – 5:00 pm	<p><b>CPERC Workshop – “Bringing the Blueprint to Life in Pharmacy Education”</b> (RRCR Conference Centre – Fraser Room)</p> <p><b>Afternoon Working Break</b> (3:00 – 3:30 pm in the RRCR Theatre - Upper Floor Foyer in Exhibit Area)</p> <p><b>Chair:</b> Marion Pearson, BSc (Pharm), Med, Senior Instructor, UBC Faculty of Pharmaceutical Sciences</p> <p><b>Workshop Facilitator:</b> Barbara Gobis Ogle, BSc (Pharm), ACPR, MScPhm</p>
5:00 pm – 6:00 pm	<b>Joint AFPC/CSPS Reception and Poster Viewing</b> (RRCR Theatre - Upper & Lower Floor Foyers - <b>Sponsored by Merck Frosst Canada Ltd.</b> )
Free Evening	<b>An Opportunity to Enjoy Vancouver! Jump on the Skytrain!</b>
<hr/>	
<b>Friday, June 4, 2010</b>	
7:00 am – 8:20 am	<b>Joint CSPS/AFPC Graduate Student Trainee Breakfast Session – Career Mentoring</b> (RRCR - Chairman’s Room)
8:00 am – 4:00 pm	<b>Registration</b> (CPERC & CSPS Registration Desks - RRCR Theatre – Lower Floor Foyer)
8:00 am – 4:00 pm	<b>Exhibitors</b> (RRCR Theatre - Upper Floor Foyer)
8:00 am – 4:00 pm	<b>Joint CPERC/CSPS Poster Presentations</b> (RRCR Theatre - Upper & Lower Floor Foyers)
8:00 am – 8:20 am	<b>Joint CPERC/CSPS Continental Breakfast</b> (RRCR Theatre - Upper Floor Foyer in Exhibit Area)
8:30 am – 10:00 am	<p><b>CPERC Opening Session – “Supporting Intra-Professional Education &amp; Experiential Learning – Perspectives from CPTEA and PEPC”</b> (RRCR Conference Centre – Fraser Room)</p> <p><b>Chair:</b> Lynda Eccott, BSc, MSc, Senior Instructor, UBC Faculty of Pharmaceutical Sciences</p> <p><b>Speaker from the Canadian Pharmacy Technicians Educators Association (CPTEA):</b></p> <p>- Beverley Stotz, BSP, Nova Scotia Community College</p>

	<p><b>“Pharmacy and Pharmacy Technician Students Working Together”</b></p> <p><b>Speakers from Pharmacy Experiential Programs of Canada (PEP Canada):</b></p> <ul style="list-style-type: none"> <li>- Cheryl Cox, BSP, MBA, Experiential Education Coordinator, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta</li> <li>- Adrienne J. Lindblad, BSP, BSc, ACPR, PharmD, Clinical Practice Leader, Alberta Health Services</li> </ul> <p><b>“Five Students: One Preceptor – Collaboration to Support Experiential Education”</b></p>
10:00 am - 10:30am	<p><b>BREAK and Poster Viewing</b> (RRCR Theatre - Upper Floor Foyer with Exhibits)</p>
10:30 am – 12 noon	<p><b>CPERC Breakout Sessions – “Blueprint Pedagogies : Educating Medication Experts for a Changing Profession”</b> (RRCR Conference Centre – 4 Concurrent Sessions)</p> <p><b>Breakout Session 1: "Faculty Recruitment: Preparing for the Blueprint and Ensuring the Right Knowledge, Skills, and Values Mix"</b> (Room: TBA)</p> <ul style="list-style-type: none"> <li>- <b>Mary H.H. Ensom</b>, Pharm.D., FASHP, FCCP, FCSHP, FCAHS, Professor and Director, Doctor of Pharmacy Program, UBC Faculty of Pharmaceutical Sciences</li> <li>- <b>Simon P. Albon</b>, BSc, MSc, Senior Instructor, UBC Faculty of Pharmaceutical Science</li> <li>- <b>James P. Kehrer</b>, Ph.D., Professor and Dean, University of Alberta, Faculty of Pharmacy and Pharmaceutical Sciences</li> </ul> <p><b>Breakout Session 2: “Identifying and Mapping Pharmacy-related Interprofessional Learning Activities onto a Curriculum Framework using a world café discourse”</b> (Room: TBA)</p> <ul style="list-style-type: none"> <li>- <b>Lynda Eccott</b>, BSc, MSc, Senior Instructor, UBC Faculty of Pharmaceutical Science, Director of Interprofessional Curriculum, UBC College of Health Disciplines</li> <li>- <b>Donna Drynan</b>, M.Ed., OT(C), Clinical Associate Professor &amp; Academic Fieldwork Coordinator, UBC Department of Occupational Sciences and Occupational Therapy, Director of Practice Education, UBC College of Health Disciplines</li> <li>- <b>Lesley Bainbridge</b>, BRS (PT), MEd, PhD, Associate Principal - College of Health Discipline, Director of Interprofessional Education, Faculty of Medicine</li> <li>- <b>Victoria Wood</b>, MA, Project Coordinator, UBC College of Health Disciplines</li> </ul> <p><b>Breakout Session 3: “Enhancing Learning and Assessment in Pharmacy Programs through Peer Teaching”</b> (Room:TBA)</p> <ul style="list-style-type: none"> <li>- <b>Marion Pearson</b>, BSc(Pharm), MA, RPh, Senior Instructor, UBC Faculty of Pharmaceutical Science</li> <li>- <b>Colleen Brady</b>, BSc(Pharm), RPh, Lecturer, UBC Faculty of Pharmaceutical Science</li> <li>- <b>Tessa Nicholl</b>, BSc(Pharm), MSc, UBC Faculty of Pharmaceutical Science</li> </ul> <p><b>Breakout Session 4: “Developing a Program Evaluation for Canadian Faculties of Pharmacy”</b> (Room: TBA)</p> <ul style="list-style-type: none"> <li>- <b>Ingrid Price</b>, PhD, Senior Instructor, UBC Faculty of Pharmaceutical Science</li> </ul>

12:00 pm – 1:30 pm	<b>Box Lunch: CPERC/CSPS Poster Viewing and Judging</b> (RRCR Theatre - Upper & Lower Floor Foyers)
1:30 pm – 2:00 pm	<p><b>AFPC Student Award Winner Presentations</b> (RRCR Conference Centre – Fraser Room)</p> <p><b>Chair:</b> Mary MacCara,</p> <p><b>Award:</b> Canadian Foundation for Pharmacy-AFPC Graduate Student Award for Pharmacy Practice Research</p> <p><b>Student Winner &amp; Speaker: Ani Byrne</b>, BAS (hons), MSc, University of Toronto, Leslie Dan Faculty of Pharmacy</p> <p><b>Award:</b> GlaxoSmithKline-AFPC Graduate Student Research Award</p> <p><b>Student Winner &amp; Speaker: Melissa Carmen Cheung</b>, BSc, PhD Candidate, University of Toronto, Leslie Dan Faculty of Pharmacy</p>
2:00 pm – 5:00 pm	<p><b>CPERC Research Symposium – “Foundations for the Future – Shaping Practice through Research”</b> (RRCR Conference Centre – Fraser Room)</p> <p><b>Afternoon Break</b> (3:00 – 3:30 pm in the RRCR Theatre - Upper Floor Foyer in Exhibit Area)</p> <p><b>Chair:</b> David Fielding, EdD, Professor and Associate Dean of Academic Programs, UBC Faculty of Pharmaceutical Sciences</p> <p><b>Speakers:</b></p> <ul style="list-style-type: none"> <li>- <b>Ross T. Tsuyuki</b>, BSc(Pharm), PharmD, MSc, FCSHP, FACC, University of Alberta  <b>“The Blueprint is Nice, But Are Pharmacists Ready For It?”</b></li> <li>- <b>Kelly Grindrod</b>, BScPharm, ACPR, PharmD, MSc, University of BC</li> <li>- <b>Carlo Marra</b>, BSc(Pharm), PharmD, Ph.D., FCSHP, University of BC  <b>“Adaptation in B.C. – How did pharmacists do and did physicians like it?”</b></li> <li>- <b>Suzanne C. Malfair Taylor</b>, BSc(Pharm), ACPR, PharmD, BCPS, FCSHP, Executive Director, Drug Use Optimization Branch, BC Ministry of Health Services  <b>“Government perspective on pharmacy practice: the scoop on scope”</b></li> </ul>
5:30 pm	<b>Bus leaves RRCR for Downtown Vancouver &amp; Dinner Cruise</b>
6:00 pm – 9:30 pm	<b>Dinner Cruise and CPERC-AFPC Awards Banquet</b> – cruising Coal Harbour, Stanley Park and False Creek (transport back to RRCR by Skytrain)
<b>Saturday, June 5, 2010</b>	
9:00 am – 12:00 pm	<b>CSPS Closing Session</b> – (Whistler Ballrooms A & B)
9:00 am – 12:00 pm	<b>AFPC New Council Meeting</b> – (Conference Centre – Lillooet Room)

# 2010 AFPC CONFERENCE SPONSORS

---

## PLATINUM SPONSOR

---

Canada's Research-Based Pharmaceutical Companies  Les compagnies de recherche pharmaceutique du Canada

---

## GOLD SPONSORS

---



---

## SILVER SPONSORS

---



---

## BRONZE SPONSORS

---

PURDUE PHARMA

OVERWAITEA FOOD GROUP

---

Thank you for your generosity!

---

---

**Award winners for 2010:** On behalf of Awards Committee Chair, Mary MacCara of Dalhousie University, here are the award winners for 2010:

*Bristol-Myers Squibb/AFPC National Award for Excellence in Education:* **Marie-Claude Vanier, Université de Montréal**

*Canadian Foundation for Pharmacy/AFPC Graduate Student Award for Pharmacy Practice Research:* **Ani Byrne, University of Toronto**

*GlaxoSmithKline/AFPC Graduate Student Research Award for best paper published in the past 12 months:* **Melissa Cheung, University of Toronto**

*Pfizer/AFPC Research Career Award:* **Ingrid Sketris, Dalhousie University**

*sanofi-aventis/AFPC New Investigator Research Award:* **Olivier Barbier, Université Laval**

*Merck Frosst Canada Ltd Postgraduate Pharmacy Fellowship Award:* **Erin Yakiwchuk, University of Saskatchewan**, under the supervision of Dr. David Blackburn.

*AFPC Student Research Poster Awards:*

**Meghan Wall**, Memorial University of Newfoundland; supervisor: Scott Edwards  
**Melissa Hawkins**, Dalhousie University; supervisor: David Gardner  
**Nicolas Morin**, Université Laval; supervisor: Thérèse Di Paolo  
**Marie-Ève Bédard-Dufresne**, Université de Montréal; supervisor: David Williamson  
**Niladri Chattopadhyay**, University of Toronto; supervisor: Ray Reilly  
**Nafiseh Nafissi**, University of Waterloo; supervisor: Roderick A. Slavcev  
**Ahmed S. Abdelmoneim**, University of Manitoba; supervisor: Lavern Vercaigne  
**Ravi Shankar Prasad Singh**, University of Saskatchewan; supervisor: Jane Alcorn  
**Ms. Dalia Amr Hamdy El Sayed**, University of Alberta; supervisor: Dion Brocks  
**Sandy YH Lu**, University of British Columbia; supervisor: Kath MacLeod

Note: this is the first year that the University of Waterloo has had a student recipient in this award category.

---



## Association Activities:

On February 3, 2010 **ADPC** held a joint meeting with the executive of **CSHP**, representatives of **PEP** Canada and several Hospital Pharmacy **Directors** on the final day of the PPC conference in Toronto. This meeting was an all-day facilitated session by Karen Graham of Panacea Canada Inc with the major theme on experiential education for pharmacists in the institutional setting. Preceptor development and support, the use of innovative models of teaching, the development of resource capacity and the need for a cultural shift in the teaching and training of pharmacists were the major workshop discussion items. Implications of introducing the entry level Pharm D program to this environment was an integral part of the discussion. The report of the meeting contained five major recommendations for action. CSHP and ADPC were planning a follow-up meeting during the CPhA conference in Calgary in May to take action on the recommendations.

**ADPC** held **midyear** meetings in Toronto, February 4-5, 2010. Many thanks are due to Dean Henry Mann for making the meeting room

Major items of business included the Educational Outcomes Project funded by the Deans for the first professional degree in pharmacy. Educational consultant and contractor Nancy Winslade, BSc Phm, Pharm D, M. H. P. E., McGill University, Montréal gave an update on the most recent work of the task force. Nancy requested further feedback on the document in order for the task force to provide a final version of the document for the AGM of AFPC in June, 2010.

Other items of business included the Blueprint for Pharmacy Implementation Plan, the ADPC position statement on the entry-level Pharm D, the Academic Health Sciences Centre Symposium and the AFMC report on the Future of Medical Education in Canada. President Jake Thiessen reported that he would soon be stepping down as

available in the Leslie Dan Faculty of Pharmacy. Stakeholders who attended this meeting were:

- Art Whetstone, Executive Director, CCCEP – Draft Policy on the Accreditation of Certificate Programs and the Summit Meeting on Continuing Practice Development Supporting Practice Change and Continuing Competence.
- Laszlo Endrenyi, President of CSPS and Rav Kumar, Past President of CSPS – update on CSPS initiatives and long-term goals of the organization. The merits of Faculty and individual membership in CSPS were discussed.
- Bruce Good, Vice President Partnerships and Communications: Canada's Research Based Pharmaceutical Companies – Presentation on Rx & D International Report on Access to New Medicines. Funding opportunities for the Faculties and better connections of Rx & D to the Faculties were discussed.
- Deb Saltmarche, VP Pharmacy Affairs, CACDS – Update on the framework for the Pan-Canadian network on enhanced pharmacy services.

\*\*\*\*\*

Director of the School of Pharmacy at the University of Waterloo and there would be a need for the Association to select a new President.

The midyear meeting of **AFPC** took place in Toronto on February 6-7 in the Leslie Dan Faculty of Pharmacy, University of Toronto. Priorities were given to strategic planning the educational outcomes document, the upcoming conference in Vancouver, the search for the new executive director, awards, finances and communications. AFPC also approved the position statement on the entry level Pharm D as the first professional degree in pharmacy. The 2011 conference will be held in Winnipeg in June and Quebec City in 2012.

Have a great summer everyone.

AFPC wishes to recognize the contributions from pharmacy organizations that choose to help make a difference in academic pharmacy in Canada.

**ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA/  
ASSOCIATION DES FACULTÉS DE PHARMACIE DU CANADA  
AFFILIATE MEMBERS 2010**

**ASTRAZENECA CANADA INC**

**CANADA'S RESEARCH-BASED PHARMACEUTICAL COMPANIES**

**COSTCO WHOLESALE CANADA LTD**

**GLAXOSMITHKLINE CANADA INC**

**HUDSON'S BAY COMPANY (ZELLERS)**

**PURDUE PHARMA**

**TEVA CANADA**

**WYETH CONSUMER HEALTHCARE**

**Frank Abbott**  
Executive Director



## Dean's Message

James P. Kehrer, Ph.D., Dean

I am very pleased to provide everyone with some updates on the Faculty of Pharmacy and Pharmaceutical Sciences at the University of Alberta.

A lot has happened over the past year. First, as most of you know, Dr. Franco Pasutto stepped down as Dean after 10 extraordinarily productive years. I began my term as Dean in August, 2009. My first few months after moving from my previous position as Dean at the College of Pharmacy at Washington State University in Pullman/Spokane, Washington have been exciting and illuminating. The opportunities for pharmacy in Canada are extraordinary and I am excited to be a part of what is happening in Alberta and across the country.

One challenge that seems to transcend countries is funding. However, in large part because of the support of our amazing students, we have been fortunate to achieve a stable financial foundation through the new tuition modifier announced in April. Although this does mean our students will pay more, it also enables us to continue delivering a very high quality curriculum to student pharmacists.

A major success occurred in March when the provincial government approved our offering the PharmD as a first professional degree in pharmacy. Although we will initially have only a small number of students in this program, we anticipate soon being able to offer a companion program that will enable past graduates to return and obtain the education necessary for the PharmD degree.

Over the past months we have been fortunate to hire a number of outstanding new faculty members including Dr. Lars Oliver Klotz from Düsseldorf, Germany, who will arrive in August and hold our first Canada Research Chair. We have also hired Drs. Kevin Hall and Michelle Foisy in Pharmacy Practice and Sharon Marsh in Pharmaceutical Sciences.

Our new physical facilities are nearing completion. Sometime in mid-2011 we will be moving our basic research faculty members to the Katz Group Pharmacy and Health Research Centre. At about the same time, our clinical practice faculty members will move to the adjacent Edmonton Clinic North along with nursing, medicine, public health and others. Some state-of-the-art teaching facilities will come online including an amazing interprofessional teaching commons. Pictures of these new facilities are below.

Overall, the University of Alberta Faculty of Pharmacy and Pharmaceutical Sciences is entering a period of significant change that will undoubtedly lead to a better pharmacy graduate, and thereby we will help advance the practice of pharmacy in Canada.



**Katz Group Pharmacy and Health Research Centre** – Pharmaceutical Sciences will move in 2011.

## New Building

Saying goodbye to the old ...



...and saying hello to the new!



**Edmonton Clinic North** – Pharmacy Practice faculty are scheduled to move in 2012.



## Undergraduate Program

Prepared by Dr. Nese Yuksel, Curriculum Chair and Terri Schindel, Associate Dean (Undergraduate Programs)

The guiding principle of our program is to develop a strong foundation for practice by building on core skills and knowledge along the learning continuum throughout coursework and experiential training. We currently enroll 524 undergraduate students in the 4 years of the program. A new curriculum was launched in 2004 which involved a major redesign of the content, structure, and teaching methods. It is generally “modular” (disease-based) in structure with integration of the knowledge and skills in the biomedical and pharmaceutical sciences, with therapeutics and pharmacy practice. In addition, the structured experiential component was increased from 12 weeks to a total of 22 weeks with earlier experiential components starting at the end of first year was introduced. Comprehensive examinations, as well as OSCEs (Objective Structured Clinical Examinations), were introduced at the end of 2<sup>nd</sup> and 3<sup>rd</sup> years to reinforce learning and provide experience in preparation for the Pharmacy Examining Board of Canada (PEBC) examinations. Currently it is a 1+ 4 program.

We are presently working on plans to implement the PharmD as the First Professional Degree Program in

Pharmacy that was recently approved by the Alberta Government. There will be a maximum of 13 students to start enrolment in 2011. A non-traditional PharmD is also being planned with potential start date of 2013.

Our primary focus for the curriculum over this next year will be re-evaluating and designing program outcomes which will incorporate the changes in the practice environment in Alberta including prescribing, administering injections and ordering lab tests, and include the soon to be approved AFPC Educational Outcomes for the First Professional Degree Program in Pharmacy. A framework for curricular mapping will be developed from the program outcomes, to be followed with a detailed map of our current curriculum, as well as suggestions for curriculum revisions required to meet the new program outcomes. Coordinators have been identified for each year of the curriculum to help identify gaps and overlap in the curriculum requiring action by the curriculum committee. An implementation team has also been formed to deal with the implementation of the PharmD, as well as integrating our current curriculum with the proposed PharmD program. Faculty engagement and development is the priority for all phases of curricular planning, with this year’s faculty retreat focusing on critical thinking.

Contact: [nyuksel@pharmacy.ualberta.ca](mailto:nyuksel@pharmacy.ualberta.ca) or [tschindel@pharmacy.ualberta.ca](mailto:tschindel@pharmacy.ualberta.ca)



## Assessment

Prepared by Terri Schindel, Associate Dean (Undergraduate Programs)

The Assessment Committee comprised of Faculty members representing pharmaceutical sciences, pharmacy practice, experiential learning and students, was formed in September 2009. The Assessment Committee is responsible for developing and executing the Faculty's assessment plan that will provide on-going evaluation of the quality and effectiveness of the undergraduate pharmacy program. This plan will include both program evaluation and curriculum assessment and will address various areas including: curriculum and student learning, administrative and organizational systems, admissions process, experiential learning structure and support, faculty mentorship and development, faculty experience including recruitment and retention, and student experience. To date, the Committee has met seven times, with meetings scheduled on a monthly basis. As a first task, a philosophy of assessment was drafted for approval by the Faculty. An online survey for graduating students, incorporating elements of the AFPC Educational Outcomes, was developed and pilot tested to ensure the survey is capturing student opinions regarding our program and that all relevant areas are captured in the questions. The survey will be administered annually, beginning in April-May 2010 to afford graduating students an opportunity to provide feedback on the program. Other assessment activities planned for 2010-11 include development and approval of an overall assessment plan. The Assessment Committee works closely with the Curriculum Committee and is embarking on curriculum mapping.

Contact: [tschindel@pharmacy.ualberta.ca](mailto:tschindel@pharmacy.ualberta.ca)



## Graduate Studies

Prepared by Dr. Ayman El-Kadi, Associate Dean (Research and Graduate Studies)

Research has always been strength of the Faculty. Our Faculty of Pharmacy is one of the largest Faculty of Pharmacy in Canada and one of the most diverse on campus in terms of the research interests of its academic staff. This diversity has resulted in numerous collaborations among Principal Investigators as they discover common themes and approaches within their research programs. The Faculty currently has over 39 professors, 31 adjunct professors and 9 professors emeritus, along with a graduate student population of nearly 62 students. The faculty has strong research in fields such as biotechnology, medicinal chemistry, pharmaceuticals, drug delivery, pharmacokinetics, drug metabolism, pharmacology, pharmacogenomic, toxicology, hospital pharmacy, clinical pharmacy, pharmacoepidemiology, and pharmacy administration and pharmacy practice.

The Faculty's researchers attract approximately \$2 million annually in external research grants and contracts. The Faculty has also excelled in transferring its research technology to the marketplace. Many of the University's spin-off companies originated in the Faculty of Pharmacy and Pharmaceutical Sciences.

## Graduate Studies and Research

The graduate program has been ranked among the top graduate programs in North America. Its first PhD graduate was in 1961, the first PhD degree granted by a School or Faculty of Pharmacy in Canada. In recognition of its flourishing Graduate Studies program in the pharmaceuticals, in 1968 the Faculty was renamed the Faculty of Pharmacy and Pharmaceutical Sciences. The Faculty offers MSc, and PhD graduate programs in Pharmaceutical Sciences and Pharmacy Practice. There are a number of collaborations between the Faculty of Pharmacy and Pharmaceutical Sciences and other Faculties such as Medicine and Dentistry, Public Health, Nursing, Engineering, and Arts and Science.

Contact: [aekadi@pharmacy.ualberta.ca](mailto:aekadi@pharmacy.ualberta.ca)

## **Experiential Education in Alberta**

Prepared by Cheryl Cox and Marlene Gukert,  
Experiential Education Coordinators

This past year has brought incredible opportunities to implement our longstanding goals for experiential education. The Alberta Government's Health Workforce Action Plan funded two major projects to address placements in rural Alberta. Through the appointment of regional assistants, virtual classrooms were created and the use of E-class, Elluminate, Google sites, blogs and podcasts facilitated monitoring of student progress, reflective practice to enhance learning from experience and peer supported learning.

The second major project was the addition of hospital simulations into the curriculum to balance the community simulations that presently exist. Medication histories on admission and discharge counseling simulations both including medication reconciliation, were simulated in a hospital ward as part of the orientation to the institutional rotations. Facilitators were trained utilizing videotapes of standardized patients and students along with a debriefing strategy which we refer to as Advocacy and Inquiry to explore student decision making. We also piloted with great success, the involvement of the fourth year students in roles as preceptors and simulation facilitators for first and second year students.

Interprofessional education was also promoted through several projects. Fourth year students on placement in rural communities collaborated with students from the Faculty of Medicine . These students worked together to provide direct patient care in the institution and community and jointly presented their care plans to both faculties via Elluminate. To further address interprofessional education, the fourth year students were precepted by respiratory educators (respiratory therapists) within outpatient asthma and COPD clinics to enhance their patient assessment skills and interprofessional collaboration with the community pharmacists.

The final component of the HWAP project involved exploration of opportunities to enhance community involvement of students during their 16 week placements in the same geographical location. A community health course was taught using the virtual classroom and students partnered with a specific population in their community to implement a health promotion activity such as vascular risk reduction.

Next year brings further development of simulations for interprofessional practice and patient health assessment and the creation of virtual classrooms for preceptors across the province.

Contact: [ccox@pharmacy.ualberta.ca](mailto:ccox@pharmacy.ualberta.ca) or  
[mgukert@pharmacy.ualberta.ca](mailto:mgukert@pharmacy.ualberta.ca)

\*\*\*\*\*

## **Practice-Based Research**

Prepared by Dr Lisa Guirguis, Assistant Professor

In the new healthcare environment, pharmacists are playing an expanded role in providing patient care to ensure safe and effective medication use. The practice of community pharmacy in Alberta is in a perfect storm of practice change. Pharmacists have the opportunities to prescribe, access electronic health record for lab values and medication profiles, order lab values, immunize, and a new reimbursement model will be announced on July 1, 2010. The frameworks are in place; however the uptake of these innovations is sporadic. The model of pharmacy practice in community is not able to support these innovations for all pharmacists. Our pharmacy practice division is working on several projects to both explore the uptake and where appropriate enhance pharmacists' use of these practice innovations.

We are using several approaches to evaluate pharmacy practice change. Through clinical areas such as menopause and diabetes, novel disease specific and team-based approaches to pharmacy are being considered. Another area of research includes documenting the facilitators and barriers to pharmacists' integration of electronic health records, as well as prescribing into patient care. Partnership approaches to community pharmacists' practice include identifying practical approaches to provide care at time of pharmacist dispensing and the development of site specific models of asthma care for routine patient interactions. Together, these streams of research will inform researchers, policy makers, and educators locally and in other jurisdictions about pharmacy practice and allow us to develop sound, evidence-based approaches to enhance appropriate patient care.

Contact: [lguirguis@pharmacy.ualberta.ca](mailto:lguirguis@pharmacy.ualberta.ca)

## UNIVERSITY OF TORONTO

**Grants and Awards**

Associate Professor **Zubin Austin**, Ontario College of Pharmacists Professor in Pharmacy Practice, was recently awarded funding by the Ontario Ministry of Citizenship and Immigration. “How do internationally educated professionals acquire linguistic and cultural competency,” will develop and offer English as a Second Language (ESL) courses for pharmacists to study how professionals learn languages.

Professor **Reina Bendayan** was recently awarded three-year operating and equipment grants from the Ontario HIV Treatment Network, Ministry of Health of Ontario, for a project entitled “Role of Drug Transporters in Permeability and Efficacy of Microbicides at Human Genital Barriers Sites”. She has also received approval from CIHR for the renewal of her operating grant entitled “Regulation of Antiretroviral Drug Transport in the Brain”.

Assistant Professor **Suzanne Cadarette** CIHR New Investigator in the Area of Aging and Osteoporosis, received a 1-year Post Market Drug Safety and Effectiveness Catalyst Grant from CIHR for her project “Read-world Effects of Bisphosphonates: Using Innovation to Link Datasets (REBUILD) – Phase I.” This will enable Dr. Cadarette to lay the groundwork for an innovative and collaborative research program that examines the real-world safety and effectiveness of osteoporosis medications and impact of non-

\*\*\*\*\*

Professor **Sandy Pang** spent a short sabbatical leave in February and March at the Centre for Drug Evaluation and Research, U.S. Food and Drug Administration in Maryland. Appointed an ORISE Fellow, Dr. Pang provided lectures on “Physiologically-Based Pharmacokinetic Modeling” and “Drug Metabolism 101.” In this role, she participated in meetings with reviewers on new drug applications, and met with staff on issues involving the labeling of drugs and biologics, drug-drug interactions, drug comparisons, modeling and simulations.

Professor **Micheline Piquette-Miller** and Associate Professor **Christine Allen** recently received funding from the Ontario Institute for Cancer Research (OICR) for a joint project to treat ovarian cancer. Traditional ovarian cancer treatments use surgery to remove

osteoporosis medications on fracture risk. Dr. Cadarette will examine the comparative effectiveness of oral bisphosphonates in reducing fracture risk by studying new users of these agents in British Columbia and Ontario.

Assistant Professor **Carolyn Cummins** recently received funding from the Kidney Foundation of Canada to study the role of cholesterol and the nuclear receptor LXR in diabetic nephropathy (kidney disease induced by long-term diabetes). Dr. Cummins was also named the Banting and Best Reuben and Helene Dennis Scholar for Diabetes Research. The funding provided by this award and grant will allow Dr. Cummins to continue her research and determine whether LXR activation will provide a novel drug target against the onset or progression of diabetic nephropathy.

The Ontario Institute for Cancer Research recently announced an equity investment in Professor **Shana Kelley** and Professor Ted Sargent’s (Edward S. Rogers Sr. Department of Electrical and Computer Engineering) development of a microchip-based diagnostic system for clinically accepted leukemia biomarkers. This investment will facilitate testing and refinement of the electronic chip and hand-held device for direct and rapid detection of clinically relevant biomolecules in patient samples.

tumours followed by complex chemotherapy regimens administered intravenously to make sure any remaining cancer cells are killed. Dr. Piquette-Miller and Dr. Allen’s new technology places anti-cancer agents directly at the tumour site using an interperitoneal delivery system placed inside the body. The drugs are then released over one to two months, destroying the residual tumour and any remaining cancer cells in the area. The delivery system biodegrades completely, eliminating the need for surgery to remove it. This investment from OICR will be used to achieve pre-clinical requirements in order to proceed to clinical trials.



**Dr. Allen** and Dr. David Jaffray also received funding from the Canadian Institutes of Health Research for a joint project entitled “Image-Guided Design of an Actively Targeted Liposomal Drug Formulation for Treatment of Lung Cancer.” This four-year project will employ nanotechnology to provide targeted delivery of the chemotherapeutic agent, cisplatin, to lung cancer tumour cells, which should result in major improvements in tumour control and long-term survival for lung cancer patients.

### Faculty News

University of Toronto Press has just published a book by **Zubin Austin** titled: “Educating Pharmacists: A guide for preceptors and mentors of international pharmacy graduates”. This book was produced through a grant from Health Canada and is part of a workshop aimed at those interested in working with IPGs, to enhance their skills and confidence in teaching and assessment.

The Leslie Dan Faculty of Pharmacy has established a new Office of Experiential Education, committed to excellence in experiential education for learners within our various programs. The Office has a mandate to organize, develop and enhance experiential components across the Faculty, and to collaborate with the many Community and Institutional Practice sites, as well as other Health Science programs, and organizations. The inaugural Director of Experiential Education within this Office is senior lecturer **Andrea Cameron**.

### Student News

Students from the Leslie Dan Faculty of Pharmacy, University of Toronto, and the School of Pharmacy, University of Waterloo, battled it out in hockey for the second annual Ontario Pharmacists’ Association Cup. In front of a large crowd of students from each program, the crew from the Leslie Dan Faculty of Pharmacy emerged victorious for the second consecutive year.

\*\*\*\*\*

## DALHOUSIE UNIVERSITY

### Academic Appointment

Dr. Anne Marie Whelan was recently appointed Associate Director, Program Evaluation, College of Pharmacy, Dalhousie University.

### Individual Faculty News

Dr. Kerry Goralski is the 2010 recipient of the Dr. Jessie I. MacKnight Award for Excellence in Pharmaceutical Teaching.

### Presentations

Zed Peter. Pain Management in Trauma: The Missed Intervention, Trauma Association of Canada Annual Scientific Meeting, Halifax, NS, May 6, 2010 .

Zed, Peter. The Adverse Drug-Related Event Epidemic. IWK Regional Poison Centre, Talk The Tox Conference, Halifax, NS, February 17, 2010.

Whelan, Anne Marie. Review of hormonal contraception and emergency contraception for the OPA Women’s Health Program and NAMS Prep Course. Toronto, ON. April 23, 2010.

### Publications

**Isenor JE**, Ensom MH. Is there a role for therapeutic drug monitoring of vitamin D level as a surrogate

marker for fracture risk? *Pharmacotherapy*. 2010 Mar;30(3):254-64.

**Jurgens T, Whelan AM**. Advising patients on the use of natural health products to treat premenstrual syndrome. *CPJ* 2009;142(5):228-33.

**MacKinnon NJ**. Do Community Pharmacists Really Make A Difference? *Pharmacy Business*. 2010; 63(2): 52.

**MacKinnon NJ**. Value for Money and Hospital Pharmacists. *Canadian Journal of Hospital Pharmacy*. 2010; 63(1): 92.

**MacKinnon NJ**. Evaluating a new pharmacy service? Find a model that works for you. *Pharmacy Business*. 2010; 2(1): 14.

**MacKinnon NJ**. The Professor Is In. *Canadian Journal of Hospital Pharmacy*. 2009; 62(4): 348.

Scobie AC, **MacKinnon NJ**. Cost Shifting and Timeliness of Drug Formulary Decisions in Atlantic Canada. *Healthcare Policy*. 2010; 5(3): 100-114.

Boyle TA, Mahaffey T, **MacKinnon NJ**, Deal H, Hallstrom LK, Morgan H. Determinants of medication incident reporting, recovery, and learning in community pharmacies: A conceptual model. *RSAP (Research in Social and Administrative Pharmacy)*. 2010. doi:10.1016/j.sapharm.2009.09.003

Groves KEM, Schellinck T, **Sketris I**, **MacKinnon NJ**. Identifying early prescribers of Cyclooxygenase-2 Inhibitors (COX-2s) in Nova Scotia, Canada: Considerations for targeted academic detailing. *RSAP (Research in Social and Administrative Pharmacy)*. 2009; doi:10.1016/j.sapharm.2009.09.003

**Whelan AM**. Question & answer: How does calcium interact with other prescription drugs, e.g. blood pressure medication, digoxin, antibiotics, anti-seizure medications? Is there a danger of calcium interfering with these medications and lowering their absorption, or vice versa? *Osteoporosis Update* [Toronto, ON: Osteoporosis Canada]. 2010 Winter;14(1):7-8.

#### Grants

Kerry Goralski is a recipient of a CIHR Operating Grant for the investigation of the mechanisms of

chemerin processing by adipocyte-derived proteases (Feb 2010).

Jurgens T, Whelan AM, Kirk S, Foy E. Green tea for weight loss. Funded by the Nova Scotia Health Research Foundation Systematic Review Grant.

#### Student News

Mark Embrett successfully defended his thesis, "Qualitative Evaluation of the Canadian Fabry Disease Initiative Using Key Informant Interviews" for his Master's degree in Applied Health Services Research. Neil MacKinnon is his thesis supervisor.

Sebastian Parlee, Ph.D Candidate, (Supervisor Dr. Kerry Goralski) is the recipient of a Frederick Banting and Charles Best Canada Graduate Scholarship, April 2010.

#### Opportunities

Dr. Kerry Goralski has an opening in his laboratory for a Ph.D. student to study the function of chemerin in obesity and metabolism. Please contact Dr. Goralski ([kerry.goralski@dal.ca](mailto:kerry.goralski@dal.ca)) for more information about this training opportunity.

\*\*\*\*\*

#### Education Corner



*SafetyNET-Rx training session marks major milestone*

Posted: Friday, April 16, 2010 at 1:31 pm

<http://www.stfx.ca/news/view/2151/> (used with permission)



L-r: Dr. Darren Ashcroft, The University of Manchester, Dr. Neil MacKinnon, Dalhousie University and Dr. Tom Mahaffey, St. Francis Xavier University

Medication safety in Nova Scotia was the prescription of the day when 129 pharmacists and pharmacy technicians converged in Halifax April 10 for a training session on SafetyNET-Rx.

For the StFX and Dalhousie University faculty involved in this cross-disciplinary project, now helping 72 Nova Scotia pharmacies implement a continuous quality improvement program (CQI), the day marked a major milestone.

“To see something that was once just an idea now showing up in pharmacies across Nova Scotia is wonderful,” says Dr. Todd Boyle, Canada Research Chair in Integrated IT in Small and Medium-Sized Enterprises, project co-lead, and one of two StFX professors involved in the project. “We could not ask for a more significant outcome for this research program.”

Dr. Tom Mahaffey, past president and board member of the Nova Scotia College of Pharmacists (NSCP) and the other StFX professor involved, gave an introductory address on the history of SafetyNET-Rx and NSCP’s role in the process. “NSCP is to be congratulated on the very proactive and collaborative role that they played in this entire process,” he said. He went on to note how pleased the research team was with the cooperation they received from the regulator as well as from pharmacists and technicians across the province.

International patient safety expert, Dalhousie University professor of pharmacy, and project co-lead,

Dr. Neil MacKinnon followed by stressing the importance of patient safety and the critical significance of a CQI program.



SafetyNET-Rx encourages an open dialogue on medication errors and near misses, collectively known as quality related events (QRE), among pharmacy staff so that the pharmacy can learn from such errors and make workflow/dispensing, technology, or other appropriate changes to ensure that similar errors do not occur again, Dr. Boyle explains.

\*\*\*\*\*

These activities are supported through the adoption of a pharmacy-tailored CQI cycle, in-store CQI facilitators, an integrated information system that allows for anonymous error reporting to a national database, and analysis of errors at the pharmacy, provincial, and national levels to determine the root causes of errors and/or make proactive changes to reduce errors before they occur. When QREs in retail pharmacy go unreported, opportunities to improve the Canadian healthcare system are lost.

The project is an excellent example of collaboration between universities and industry partners. The research team includes Drs. Boyle and Mahaffey from StFX, Dr. Neil MacKinnon from Dalhousie University College of Pharmacy, Bev Zwicker from the Nova Scotia College of Pharmacists, Certina Ho from the Institute for Safe Medication Practices Canada, Kellie Dugan, project manager, Dr. Kim Sears, post-doctoral scholar, and students, Heidi Deal, Andrea Scobie, Sean Higgins, and Brett Jackson.

In the spring of 2009, the team received \$114,000 from the Social Sciences and Humanities Research Council (SSHRC) grant to expand a \$79,000 SSHRC-funded pilot program that began the year before in over a dozen community pharmacies. In the fall of 2009, the team was awarded a \$126,000 Nova Scotia Health Research Foundation (NSHRF) grant to track SafetyNET-Rx’s progress and performance over the next three years. “Our ability to continually attract significant research funding during a time of extreme funding competition is a testament to the quality of the team and the value of the SafetyNET-Rx program to the safety of the Canadian healthcare system,” says Dr. Boyle.

The action-packed day in Halifax offered a full schedule of events ranging from presentations on SafetyNET-Rx’s key components to input by renowned patient safety experts, Dr David Brushwood, University of Florida and Dr. Darren Ashcroft, University of Manchester, UK, who brought an international and best practices perspective to the training.

## UNIVERSITY OF WATERLOO

### Appointments

The School of Pharmacy is pleased to announce the hiring of Dr. Carlos Rojas-Fernandez as an Assistant Professor and the first Schlegel Research Chair in Geriatric Pharmacy. Dr. Rojas-Fernandez earned his undergraduate pharmacy degree at Dalhousie University followed by the Doctor of Pharmacy from Wayne State University. Additional academic credentials included a Research Associate & Clinical Research Fellowship in Geriatric Pharmacotherapy in the Division of Geriatric Medicine at Dalhousie. His employment has included a position as professor and director of geriatric pharmacy at Texas Tech University. During the last 5 years, at Bristol-Myers Squibb Research & Development, he has been the Senior Medical Science Liaison in Neuroscience. Carlos will launch an exciting new collaborative arrangement between the School of Pharmacy, the Research Institute for Aging (RIA), RBJ Schlegel Holdings, Inc. and Oakwood Retirement Communities

Inc. His research and clinical activities will seek ultimately to improve care and overall quality of life for seniors. In particular, his role will be to focus on optimizing medication effectiveness and patient safety.

### School News

On Wednesday, March 3<sup>rd</sup>, the University of Waterloo School of Pharmacy was honoured with the 2010 Innovation Award by the Greater Kitchener-Waterloo Chamber of Commerce. This award recognizes creativity and innovation in products or processes by an outstanding organization. Waterloo Pharmacy was noted for its focus on partnerships, being dynamic and flexible, and engaging with the community on multiple levels. The co-op experiential model, our personalized student selection process, and community outreach activities were important elements. Other nominees in the category included such distinguished businesses as Agfa HealthCare, Manulife Financial, Christie Digital Systems, Maplesoft and DALSA Corporation.

\*\*\*\*\*

### Faculty News

Vicki Sills, Adjunct Assistant Professor, received the Isabel E. Stauffer Meritorious Service Award (sponsored by Pharmaceutical Partners of Canada Inc) from the Canadian Society of Hospital Pharmacists at CSHP's Professional Practice Conference. This award recognizes prolonged service and involvement with CSHP, primarily at the branch or chapter level.

Dr. Jeff Nagge, Adjunct Assistant Professor, won the Best Poster award at the Western Branches Canadian Society of Hospital Pharmacists 36th Annual Banff Seminar. The poster was entitled *Evaluation of a 4mg warfarin initiation algorithm for elderly outpatients with atrial fibrillation.*

### Grants

Dr. Michael Beazely has received an NSERC Discovery Grant in the amount of \$130,000 over five

years, to support the project: *Non-receptor tyrosine kinase regulation of the neuronal cytoskeleton.*

Lisa Craig, Professional Practice Course/Lab Instructor, and Marissa Cunningham, Anatomy, Physiology & Histology Course/Lab Instructor have received a University of Waterloo Internationalization grant in the amount of \$1500. The funds will support the creation of virtual cases simulating culturally diverse patient scenarios, to be used in the Professional Practice Lab courses.

Dr. Jamie Joseph has received an Early Researcher Award from the Ministry of Research & Innovation. This \$190,000 five-year grant will support the project: *Treatment of type 1 diabetes by enhancing islet graft function using a novel gene delivery technique called Ultrasound Targeted Microbubble Destruction to improve islet transplantation success.*

## UNIVERSITÉ LAVAL

### Appointments

Dr Sophie Lauzier will soon join the Faculty of Pharmacy as an assistant professor working under the “Chaire sur l’adhésion aux traitements”. She will take office on August 30<sup>th</sup>. She obtained a Master’s degree in social and cultural anthropology (Laval University, 2000), a PhD in epidemiology (Laval University, 2007) and she recently completed a postdoctoral training in psychosocial oncology (McGill University, 2010).

Dr Pascal Daleau, currently a full-professor and in charge of supervising research activities at our faculty has been appointed president of the Research Committee of Laval University since May 1<sup>st</sup>, 2010. This important committee oversees research activities ongoing at Laval University.

### Individual Faculty News

Dr Thérèse Di Paolo has recent discoveries pertaining to Parkinson’s disease that she leads in collaboration with Pershia Samadi (postdoctoral fellow), Bazoumana Ouattara and Nicolas Morin (PhD students). Her research team recently demonstrated that, in a primate

model of Parkinson’s disease, levodopa-induced dyskinesias are associated with elevated levels of mGluR5 receptor in cerebral structures implicated in motor control (Samadi et coll. *Neurobiology of Aging* 2008; 29:1040-1051; Ouattara et coll. *Journal of Neurochemistry*, in press). Quite fascinatingly, they made a similar observation in the brain of parkinsonian patients brain who developed motor complications (Ouattara et coll. *Neurobiology of Aging*, in press). Her research team more recently demonstrated that mGluR5 receptors antagonists reduce levodopa-induced dyskinesias maintaining the antiparkinsonian efficiency of levodopa in an animal model of Parkinson’s disease (Morin et coll. *Neuropharmacology*, in press).

On February 28th, Radio-Canada highlighted the work of professor Matthieu Guitton at a popular mainstream TV show called “Découverte”. The report focused on tinnitus, a disease seriously impairing the quality of life of over 150,000 Canadians.

\*\*\*\*\*

### Grants

The Natural Sciences and Engineering Research Council of Canada (NSERC) awarded a \$ 135 000 grant under the Discovery Grants Program to Dr Éric Biron entitled “New Peptidomimetic Approaches to Target Protein-Protein Interaction”.

Dr Biron and his colleagues René C.-Gaudreault et Donald Poirier from the Medical Chemistry Laboratory of the Centre hospitalier universitaire de Québec Research Center (CRCHUQ) also obtained a \$ 629 957 grant from the Leaders Opportunity Fund of the Canada Foundation for Innovation (CFI). The CFI contributed to \$ 251 731 while other partners such as the Ministère de la Santé et des Services sociaux (MSSS) and equipment suppliers contributed to \$ 251 731 and \$ 126 495, respectively.

A study conducted by Dr Frédéric Calon and Dr Renée Bazin from Héma-Québec received a \$ 230 000 grant

from the Talents program of Talecris Biotherapeutics. The objective of the researchers and Isabelle St-Amour, a PhD student, is to establish the mechanisms of action of intravenous immunoglobulin (IVIg) in an animal model of Alzheimer’s disease.

Dr Calon received a \$ 210 000 grant, for four years, from the Canadian Institutes of Health Research (CIHR) and Héma-Québec, under the Small and Medium Enterprise IRSC program, to study how intravenous immunoglobulin (IVIg) cross the blood-brain barrier, in collaboration with Dr Renée Bazin from Héma-Quebec..

Furthermore, Dr Calon’s team recently obtained a \$ 530 000 operating grant from the CIHR for five years. The title of his research: Investigations on the role of p21-activated kinase (PAK) in Alzheimer’s disease. The purpose is to improve our understanding of this awful disease and to help developing new treatments.

## General Faculty News

On April 17th, 300 guests celebrated the return of the “Soirée des vins à l’honneur” at the “Capitole de Québec” theater. The success of this benefit activity resulted in a \$ 100 000 collected for the “Fond d’enseignement et de recherche (FER)” of our faculty.

The women section of the IUCPQ team – health project – Laval University team, composed with Jenny Lower, pharmacist, Dean assistant of the faculty of pharmacy, Julie Sanders, Physiotherapist, Veronique Fortin, anesthesiology student, Isabelle Riedl, physiology-endocrinology master’s student and Sophis Roberge, family medicine student will participate to Le Grand défi Pierre Lavoie, traveling 1000 km in 60 hours, between Saguenay and Montreal, from June 18th to 20th. Le Grand Défi Pierre Lavoie promotes a healthier life style among young people and to collect money to finance research on rare diseases.

On March 31st, our famous talent show, called “Le Galien”, was hosted by pharmacy students where they awarded teaching excellence prizes to their professors. First year students selected Dr. Eric Phillippe from the Faculty of Medicine, 2nd year students voted for Dr. Chantale Simard while the 3rd year chose Mr Frédéric Poitras. Fourth year students awarded the Alfred-Émile Francoeur prize, which recognize the long-standing teaching excellence of a professor, to Dr. Marjolaine Tremblay. Finally, the Louis-Philippe Demers award, given for the first time this year, was delivered to Dr. Karine Cloutier, recognizing the excellence of her teaching in clinical pharmacy.

Charles Millard, a pharmacist graduated from our faculty in 2002, carried the olympic flame for the 2010 Vancouver Olympic Winter Games. He was chosen for his implication in Pharmacists Without Borders – Canada, Charles Millard had the privilege to carry the olympic flame in Ancienne-Lorette, on December 3rd.

\*\*\*\*\*

## Students News

Julie Lapointe, bachelor in occupational therapy, detaining a master’s degree in epidemiology and PhD student supervised by Dr Michel Dorval, received a Micheal-Smith scholarship to complete her study abroad.

The 10th Journée recherche of the Faculty of Pharmacy held on April 13th at Alphonse-Desjardins pavillon. MSc and PhD students presented their results through oral and posters presentations in front of a panel formed of 13 professors of the faculty and one professor of the faculty of Medicine. Prizes were awarded as follows:

### PhD

1<sup>st</sup> prize – best oral presentation : Martha Garcia  
1<sup>st</sup> prize – best poster presentation : Nicolas Morin  
2<sup>nd</sup> prize – best oral presentation : Mélanie Bousquet  
2<sup>nd</sup> prize – best poster presentation : Dany Arsenaault  
Moreover, Nicolas Morin was selected to present his poster at the AFPC annual meeting from June 2nd to 4th in Vancouver.

### MSc

Best oral presentation : Simon Guérard  
Best poster presentation : Geneviève Doré

### MSc (hospital)

1st prize – best poster presentation : Maude Dumas et Geneviève Langlois  
2nd prize – best poster presentation : Marie-Hélène Dancause et Émilie Bachand-Duval

### Summer trainees (2009)

Best poster presentation : Pascale Gagnon

## Upcoming Events

The 15th edition of the Golf Tournament of the Faculty will be held on June 7th at the Lévis Golf Club. Denis Villeneuve, a pharmacist who graduated from the faculty (1982), accepted to host this important benefit event for the Fonds d'enseignement et de recherche (FER).

The graduation ceremonies of 2010 will be held Sunday June 20<sup>th</sup> and will be followed by a cocktail.

## UNIVERSITY OF MANITOBA

### Academic Resignations

It is with sadness that we announce the resignation of **Dr. David Collins**, Professor and Dean. After 11 years with the faculty, Dr. Collins will be relinquishing the deanship on June 30, 2010, to assume the role of Vice-Provost (Academic Planning and Programs) at The University of Manitoba. An acting dean will be appointed for the period July 1/10 - June 30/11, and a full search will be conducted for a new Dean of Pharmacy with an effective start date of July 1, 2011.

### Academic Promotions

**Dr. Xiaochen Gu** was promoted from Associate to Full Professor effective March 30, 2010.

### Grants

**Drs. Silvia Alessi-Severini and Pat Honcharik** received funding from WRHA (\$250) in support of their study "Use of clozapine in an urban outpatient population: changes in prescribing trends".

**Dr. Hope Anderson** was awarded a grant in the amount of \$100,000 (over two years) from the Heart and Stroke

Foundation of Manitoba for her grant entitled "Regulation of cardiac hypertrophy by the CB2 cannabinoid receptor".

**Dr. Yuewen Gong** was awarded a grant in the amount of \$26,000 for one year from NSERC for his grant entitled "Mechanism of cell differentiation and transdifferentiation".

**Dr. Mike Namaka** was awarded a grant in the amount of \$200,000 (over three years) from Pfizer Global UK to support the work on a cannabinoid enzyme inhibitor in his EAE animal model of MS.

### Student News (Graduate)

Ms Irina Vasilyeva, Pharmacy graduate student, was awarded the Canadian Association for Population Therapeutics (CAPT) 2010 studentship award at the CAPT conference held March 28-30, 2010 in Toronto. Irina's abstract was selected for a podium presentation. Title of her presentation was "Antipsychotic-induced cerebrovascular events in the elderly residents of Manitoba".

\*\*\*\*\*

## MEMORIAL UNIVERSITY OF NEWFOUNDLAND

### Individual Faculty News

Dr. Leslie Philips and Dr. Carla Dillon were chapter editors/contributors to the chapter on Antipsychotic Medications in the book, *Clinical Handbook of Psychotropic Drugs* 18th ed. The book has been chosen as a winner for the 2009 American Journal of Nursing, Book of the Year awards.

The Nontraditional PharmD program at the University of Colorado Denver School of Pharmacy has bestowed Dr. Lisa Bishop with Preceptor of the Year award. Barbara Thomas, a May 2010 graduate candidate nominated Lisa.

### Student News

Mohamed Shaker is this year's recipient of the Pharmacy Millennium Award.

#### Feb. 10, 2010 – Research Poster Award Winners:

1. Ms. Meghan Wall, winner of the "Pharmacy Research Poster Award" in undergraduate category;
2. Ms. Sarai Hamodat, winner of the "Merck-Frost Travel/Lodging Award" to present her poster at the 2010 Annual Meeting of CSPC in Richmond, BC;
3. Ms. Abeer Ahmed, winner of the "Pharmacy Research Poster Award" in graduate category; and
4. Mr. Mohammad Zahid Hossain, winner of the "AFPC Poster Award" to present his poster at the 2010 Annual Meeting of AFPC in Richmond, BC.

## UNIVERSITY OF ALBERTA

### New Appointments

The faculty is happy to announce the following administrative appointments:

- **Dr. Ayman El-Kadi**, Associate Dean (Research and Graduate Studies)
- **Dr. Dion Brocks**, Associate Dean (Student Affairs)
- **Terri Schindel**, Associate Dean (Undergraduate Programs)

**Dr. Ayman El-Kadi** has been promoted to Full Professor by the Faculty Evaluation Committee effective July 1, 2010.

**Cindy Nelson** has assumed the role of Acting Director of Continuing Pharmacy Education / Practice Development.

### Other faculty appointments

We would like to extend a big welcome to the following new faculty members:

**Sharon Marsh** has joined the Faculty of Pharmacy and Pharmaceutical Sciences at the University of Alberta as an Assistant Professor. She has a PhD in Medical Genetics and 10+ years experience in the field of cancer pharmacogenomics, with a particular focus on chemotherapy drug pathway analysis.

**Ann Thompson** has joined the faculty as Director of Experiential Education. Ann was recently a Clinical Practice Leader with Alberta Health Services in Edmonton, and has a wealth of experience in mentoring pharmacists in their clinical practice. She will be continuing her practice at the Hypertension Clinic at the University of Alberta hospital.

**Lars Oliver Klotz**: “Ole” Klotz will be joining the faculty in August as our first Canada Research Chair. Dr Klotz comes from the University of Düsseldorf, Germany, where he is an Associate Professor in the Environmental Health Research Institute. He is a recognized leader in the areas of free radicals, oxidative stress and antioxidants.

**Dr. Michelle Foisy** will be joining our faculty as a Clinical Associate Professor in Pharmacy Practice in July 2010. Dr Foisy comes with a strong background in pharmacy practice, and is an expert in the area of infectious disease and HIV.

**Dr. Kevin Hall** will be joining our faculty as a Clinical Associate Professor in Pharmacy Practice this summer. Dr Hall is currently the Regional Director of the Regional Winnipeg Health Authorities Pharmacy Program and comes with a vast expertise in pharmacy administration.

\*\*\*\*\*

### General Faculty News

**Dr. Afsaneh Lavasanifar’s** research on nanoparticles that boost the human body's immune system in fighting tumours was recently highlighted by the official student newspaper at the University of Alberta, the GateWay in the article “Research team uses nanotechnology to deliver targeted cancer treatment”.

**Dr. Nese Yuksel’s** recent publication on pharmacists’ role in osteoporosis “*Yuksel N, Majumdar SR, Biggs C, Tsuyuki RT. Community Pharmacist Initiated Screening Program for Osteoporosis: Randomized Controlled Trial. Osteoporosis Int 2010;21:391–398*” received attention by several media outlets, including

Global TV News in Edmonton and ExpressNews at the University of Alberta.

**Dean’s Advisory Council (DAC)**: Early in 2010, Dean Kehrer invited recognized leaders in the pharmacy community to participate on an advisory council. The inaugural meeting was held on March 5 at the Faculty. The purpose of the DAC is to provide diverse advisement to the Dean of the Faculty of Pharmacy and Pharmaceutical Sciences. The goals include promoting alumni engagement and advancing the Faculty. An optimal educational experience for the students will be ensured by addressing issues on curriculum, experiential activities, and development.



## Grants

**Dr. Afsaneh Lavasanifar.** NSERC Research Tools and Instruments Competition, \$73,500 for 1 year, for research entitled: Differential scanning calorimetry for the development of new pharmaceutical with improved performance.

**Dr. Kamiljit Kaur** (Co-PI) (PI Baljit Singh (University of Saskatchewan): Operating grant by ALMA (Alberta Livestock and Meat Agency) for the grant: *Novel bactericidal peptides against Mannheimia hemolytica-induced feedlot pneumonia in cattle.* \$90,532 for two years.

## Awards

Congratulations to the following faculty members:

**Ravina Sanghera** awarded the Dr. John A. Bachynsky Award for advocating for undergraduate student issues

by the Alberta Pharmacists Student Association (APSA).

**Dr. Nese Yuksel** awarded the Bristol Myers Squibb Teaching Excellence Award by the graduating class of 2010.

**Dr. Sharon Mitchell** received the 2010 William Hardy Alexander Award for Excellence in Undergraduate Teaching.

**Dr. Christine Hughes** was the recipient of 2010 APEX award: M.J. Huston Pharmacist of Distinction.

**Dr. Cheryl Sadowski**, as part of the Geriatric Assessment Team, Seniors Clinic, Misericordia Community Hospital received the 2010 APEX award: Partners in Practice

\*\*\*\*\*

## Graduate Student News

The Graduate Teaching Awards annually recognize outstanding graduate teaching assistants in each Faculty at the University of Alberta. Award recipients receive a certificate and letter recognizing their excellence in teaching. The 2010 recipients are **Marwa Elsherbiny** and **Kamal Al-Hallak**.

**Mr Aws Alshamsan** was the co-winner of the 2010 Gattefossé Canada CSPA Award in Lipid-Based Drug Delivery for the paper entitled: *The Induction of tumor apoptosis in B16 Melanoma Following STAT3 siRNA Delivery With a Lipid-Substituted Polyethylenimine* published in 2010 in *Biomaterials*



Dean and Advisory Council

## UNIVERSITY OF SASKATCHEWAN

### Faculty News

This spring's provincial budget did not provide the full operating funding requested by the University, however, it indicated strong support for the institution. No additional cutbacks to colleges will occur beyond the budget adjustment measures introduced for 2009-2011. Following several years of a tuition management system, tuition levels will rise in September 2010. The rate for the BSP will increase by 6.1% (average \$7347/year) and the BSc(Nutrition) by 4.4% (average \$5456/year). Increased tuition revenue will be used to fund enhancements to the student experience.

Two professional services, located in the College, are supporting the expansion of pharmaceutical care in the province. The Continuing Professional Development for Pharmacists unit is providing training to Saskatchewan pharmacists regarding prescriptive authority. The Saskatchewan Drug Information Service has been contracted by the Saskatchewan College of Pharmacists to develop prescribing guidelines for self-care conditions.

### Individual Faculty and Staff News

Dean Hill recently presented our College's vision to the College of Medicine Faculty, and highlighted linkages and shared initiatives between the two units. At the invitation of the Ontario Council on Graduate Studies, Dr. Fred Rémillard served in March as an external consultant to appraise the proposed graduate program at the School of Pharmacy, University of Waterloo. Dr. Dennis Gorecki also visited the School

in March to consult and advise, primarily on the undergraduate program.

Dr. Jeff Taylor is the College's first recipient of a new *Provost's Award for Outstanding Teaching* that will annually recognize an outstanding teacher and educational leader in each College. Jeff and fellow recipients were honoured at the spring *Celebration of Teaching* hosted by the University's Gwenna Moss Centre for Teaching Effectiveness. In addition, he will receive a monetary award to support a project or scholarship in teaching and learning.

We are pleased to report that Dr. Azita Haddadi will be joining the College on July 1, 2010, in a tenure-track position in the pharmaceutical sciences area. Dr. Haddadi holds a Ph.D. in Pharmaceutical Sciences and a Pharm.D. from Tehran University of Medical Sciences. She completed a Postdoctoral Fellowship in the Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta and is currently a Research Associate with the University of Alberta and Senior Scientist with Quest Pharmatech, Inc. in Edmonton.

The College of Pharmacy and Nutrition is recruiting for three full-time tenure track positions: one in adult medicine with preference in the areas of geriatrics, respirology, nephrology or neurology; the second will focus on clinical pharmacology with specialization in pediatrics; and the third is in the fields of pharmacoepidemiology, medication adherence, medication safety, drug use outcomes or health quality improvement.

\*\*\*\*\*

### Grants and Research

Dr. Derek Jorgenson is PI for a project, with colleagues Dr. Tessa Laubscher and Barry Lyons, titled "Pharmacists on Primary Health Care Teams in Saskatchewan: A Qualitative Analysis of Team Integration;" it is funded by the Saskatchewan Academic Health Sciences Network and Kelsey Trail Health Region. Derek is also co-investigator with PIs Dr. Barb Farrell (University of Ottawa) and Phillip Emberly (CPhA) and colleagues, on a Health Canada funded initiative called "Adapting Pharmacist Skills and Approaches to Maximize Patients' Drug Therapy Effectiveness."

Drs. Adil Nazarali and Ron Doucette have received CIHR/RPP funding to study transcriptional control of

myelin gene expression and myelination by oligodendrocytes in young adult and aged mice. Professor Emeritus Dr. J.R. Dimmock and visiting scientist Dr. U. Das have also been awarded CIHR/RPP funding for their work on tumour-selective and immunosuppressant Mannich bases and related compounds. Dr. Roy Dobson (co-investigator), PI Dr. Rein Lepnurm (School of Public Health) and colleagues have received CIHR and CIHR/RPP funding to investigate managing quality in Canadian hospitals.

Dr. Carol Henry is project director for a CIDA and U of S-funded initiative, with Nutrition colleagues, to strengthen capacity for food security, nutrition education and research in Ethiopia.

## Undergraduate News

Matt Fahlman and Calyn Bournouf represented Pharmacy and Nutrition aboriginal students, respectively, in a video being prepared by the Native Access Program for Nursing/Medicine program at the U of S. The video features Aboriginal role models from each of the health science programs, and will be used to encourage First Nations and Metis students to pursue careers in the health sciences.

Leah Phillips, Year 2 Pharmacy, has been elected as the student representative to the CPhA Board of Directors. Leah follows Kristjana Gudmundson, also from the U of S, who represented students from Canadian Pharmacy programs on the Board this past year.

Pharmacy student Katherine Lang was awarded the *CIHR Poster Award* at the recent *Issues of Substance Abuse Conference*, for her work with Dr. Anas El-Aneed and colleagues on crisis services for persons using injection drugs. Melissa Abramovic and Chantal

Mougeot were recognized as 2<sup>nd</sup> runners up in the inaugural *Health Council of Canada Health Innovation Awards* program. Their submission focused on shortfalls in the health care system, patient empowerment and practitioner accountability. Dean Hill noted that “This type of recognition for students who are concerned with the current state of the Canadian health care system is a wonderful validation of the thoughtful and insightful engagement our students have about their world.”

Four Nutrition students – Hayley Wourms, Heather Ellis, Leandra Dumanski and Andrea Oliphant – participated in a pilot project to promote healthy eating in a Saskatoon core neighborhood. The initiative, in co-operation with the Saskatoon Health Region's mobile Health Bus, is called *Food Bus*. It addressed challenges in accessing healthy food, particularly among people with gestational and Type 2 Diabetes. The students are hoping the pilot will be adopted by SHR.

\*\*\*\*\*

## Graduate News

Pharmacy and Nutrition graduate students were recognized for their excellent work at the University's annual *Health & Life Sciences Research Day*, held in March.

*First Place* honors in various research categories were awarded to:

Jatinder Mukker (Supervisors Drs. Jane Alcorn and Ed Krol) for her poster on permeability of flaxseed lignans in Caco-2 cells;

Xia Wang (Supervisor Dr. Adil Nazarali) for her work on Vitamin C and the reversal of epigenetic events in the *hoxa2* gene;

Samantha Mitchell (Supervisor Dr. Carol Henry) for her poster regarding nutrition and physical activity in primary school children in Trinidad and Tobago;

and Ravi Singh (Supervisor Drs. Jane Alcorn and J.R. Dimmock) for his work on drug permeability in the MDCK cell line.

Ravi Singh is also the recipient of an *AFPC Pharmacy Student Research Poster Award*.

*Second Place* Research Day awards went to Fei Peng (Supervisor Dr. Brian Bandy) for her poster on mitochondrial uptake of flavonoids and protection from oxidative stress;

and Jagbir Singh (Supervisor Dr. Ildiko Badea) for his work on Gemini surfactant-based gene delivery nanoparticles.

## Alumni News

The College hosted an alumni reception at the *Pharmacists Association of Saskatchewan / Saskatchewan College of Pharmacists Annual Conference* for our pharmacists to meet the new Dean, reconnect with former classmates and engage with the College. *Saskatchewan Night* will be held as part of the *CPhA Annual Conference* in May. Sponsored by the College, PAS and SCP, the event will enable the College and our professional associations to connect/reconnect with pharmacists from across the country, as well as CPhA board members and executive.

---

## Contributors

Mike Namaka, President

<namakamp@cc.umanitoba.ca>

AFPC Councilors:

Bev Allen, U of S

<bev.allen@usask.ca>

Frederic Calon, U Laval

<frederic.calon@crchul.ulaval.ca>

Nese Yuksel, U of A

<nyuksel@pharmacy.ualberta.ca>

Ingrid Price, UBC

<ingrid.price@ubc.ca>

Nancy Waite, U of Waterloo

<nmwaite@sciborg.uwaterloo.ca>

Andrea Cameron, U of T

<aj.cameron@utoronto.ca>

Mary MacCara, Dalhousie U

<Mary.MacCara @dal.ca>

Sylvie Marleau, *pro tem*, U de Montréal

<sylvie.marleau@umontreal.ca>

Silvia Alessi-Severini, U of M

<alessise@ms.umanitoba.ca>

John Hawboldt, Memorial U

<hawboldt@mun.ca>

Frank Abbott, Executive Director

<fabbott@interchange.ubc.ca>

<fabbott@telus.net>

Cheryl Cox, PEP Canada

<ccox@pharmacy.ualberta.ca>

## Editor

Rebecca M. Law, Memorial University

<rlaw@mun.ca>

---