



AFPC

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

PROCEEDINGS

OF THE

**ASSOCIATION OF
FACULTIES OF
PHARMACY OF
CANADA**

**ASSOCIATION DES
FACULTÉS DE
PHARMACIE DU
CANADA**

DURING 2009

INCLUDING THE

SIXTY-SIXTH ANNUAL MEETING

JUNE 3 - 5, 2009

HALIFAX, NOVA SCOTIA

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ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA MISSION STATEMENT

To advance the interests of academic pharmacy by supporting, promoting and recognizing innovation, excellence and leadership in pharmacy education, research and scholarly activity.

Goals and Objectives:

(a) Foster advancement of academic pharmacy in Canada

- To promote excellence in pharmacy education, research and scholarly activity.
- To support members, Deans and Faculties in advancing knowledge, skills and expertise critical to pharmacy education, research and scholarly activity.
- To encourage high standards by assuming an advisory role for the development of policies, guidelines and standards used for the accreditation of pharmaceutical education programs.

(b) Stimulate and provide opportunity for the development and exchange of ideas among pharmacy educators with a view to improving curricula, teaching and learning.

- To showcase and promote innovations in pharmacy teaching and research.
- To provide members and external organizations with the ability to easily identify and access AFPC members with expertise and skills in teaching and research.

(c) Establish and maintain liaison with pharmacy and relevant educational associations, other health professions, governmental agencies, and members of the pharmaceutical industry to further the development, support, and improvement of pharmacy education, practice, and research.

- To be recognized by external organizations as the leading representative on academic pharmacy affairs in Canada.
- To be seen as “the voice” of academic pharmacy in Canada.

(d) Support and advance the interests of AFPC members.

- To secure independence through consistent, long term funding for the ongoing operations of AFPC and for special projects.
- To be valued by faculty members so as to increase their involvement in AFPC.
- To be valued by the Deans so that they look to AFPC for assistance on relevant projects and support faculty member involvement in AFPC.

Glossary For Mission Statement

For the purpose of this Mission Statement:

Education - is interpreted to include: curricular design, teaching methods, student assessment, program evaluation and continuing education

Scholarly Activities - includes: graduate education; publication/dissemination, discovery/new information; discovery/creation of new knowledge and innovations; acquisition of resources for research; develop interdisciplinary collaboration; adherence to ethical standards of scholarship

AFPC CONSTITUENT FACULTIES 2008 - 2009

Memorial University of Newfoundland, School of Pharmacy, St. John's NF
Linda Hensman, Director (709) 777-6571

Dalhousie University, College of Pharmacy, Halifax, NS
Rita Caldwell, Director (902) 494-2457

Université Laval, Faculté de Pharmacie, Québec, QC
Jean-Pierre Gregoire, Doyen (418) 656-5639

Université de Montréal, Faculté de Pharmacie, Montréal, QC
Pierre Moreau, Doyen (514) 343-6440

University of Toronto, Leslie Dan Faculty of Pharmacy, Toronto, ON
Henry Mann, Dean (416) 978-2880

University of Waterloo School of Pharmacy, Waterloo, ON
Jake Thiessen, Hallman Director, (519)-888-4567

University of Manitoba, Faculty of Pharmacy, Winnipeg, MB
David Collins, Dean (204) 474-8794

University of Saskatchewan, College of Pharmacy & Nutrition, Saskatoon, SK
David Hill, Dean (306) 966-6328

University of Alberta, Faculty of Pharmacy & Pharmaceutical Sciences, Edmonton, AB
James Kehrer, Dean (780) 492-0204

University of British Columbia, Faculty of Pharmaceutical Sciences, Vancouver, BC
Robert Sindelar, Dean (604) 822-2343

AFPC OFFICERS 2008 - 2009

Executive

President	Roy Dobson (Saskatchewan)
President Elect	Mike Namaka (Manitoba)
Past President	Simon Albon (British Columbia)
ADPC Representative	Linda Hensman (Memorial)
Executive Director	Frank Abbott

Council

Ingrid Price (British Columbia)	Lalitha Raman-Wilms (Toronto)
Nése Yuksel (Alberta)	Daniel Thirion (Montréal)
Bev Allen (Saskatchewan)	Frédéric Calon (Laval)
Silvia Alessi-Severini (Manitoba)	Mary MacCara (Dalhousie)
Nancy Waite (Waterloo)	John Hawboldt (Memorial)

AFPC REPRESENTATIVES TO AFFILIATE ORGANIZATIONS

Association of Deans of Pharmacy of Canada – Linda Hensman (Memorial)
Academic Board Member, Canadian Pharmacists Assoc. – Rita Caldwell (Dalhousie)
Canadian Council for the Accreditation of Pharmacy Programs
– Susan Mansour (Dalhousie) & Carmen Vézina (Laval)
Canadian Council for Continuing Education in Pharmacy – Yvonne Shevchuk (Saskatchewan)
Pharmacy Examining Board of Canada – Anne Marie Whelan (Dalhousie) & Lavern Vercaigne (Manitoba)
Representative to Canadian Pharmacy Practice Research Group – Nése Yuksel
Representative to United States Pharmacopeia Convention – Raimar Löbenberg (Alberta)
Representative to the Blueprint for Pharmacy Task Force – Terri Schindel (Alberta)

Committee Chairs and Other Positions

Awards Committee – Mary MacCara (Dalhousie)
Bylaws Committee – Simon Albon (British Columbia)
Communications Committee – Daniel Thirion (Montreal) & Simon Albon (British Columbia)
Conference Planning Committee – Anne Marie Whelan & Harriet Davies (Dalhousie)
Editor, AFPC Communications – Rebecca Law (Memorial)
Education Committee – Nancy Waite (Waterloo)
Finances - Roy Dobson (Saskatchewan)
Nominations Committee – Simon Albon (British Columbia)
Pharmacy Experiential Programs Canada (PEPC) – Representative: Nancy Waite (Waterloo)
Program Evaluation Task Force – Ingrid Price (British Columbia)
Research Committee – John Hawboldt (Memorial)
Strategic Planning – Roy Dobson (Saskatchewan)
Task Force on Educational Outcomes for Entry-Level Pharm D degree – Simon Albon (British Columbia)

RECIPIENTS OF MAJOR AFPC AWARDS

RECIPIENTS OF THE AFPC AWARD FOR EXCELLENCE IN RESEARCH

McNEIL AWARD

1982	Ron Coutts, University of Alberta
1983	John McNeill, University of British Columbia
1984	Kam Midha, University of Saskatchewan
1985	Basil Roufogalis, University of British Columbia
1986	Ed Knaus, University of Alberta
1987	Tony Noujaim, University of Alberta
1988	Len Wiebe, University of Alberta
1989	Mike Mezei*, Dalhousie University
1990	Mike Wolowyk*, University of Alberta
1991	James Axelson, University of British Columbia
1992	Ted Hawes, University of Saskatchewan
1993	Frank Abbott, University of British Columbia
1994	Fakhreddin Jamali, University of Alberta
1995	Sandy Pang, University of Toronto
1996	Peter O' Brien, University of Toronto

JANSSEN-ORTHO AWARD

1997	Gail Bellward, University of British Columbia
1998	Len Wiebe, University of Alberta
1999	Jack Diamond, University of British Columbia
2000	Sid Katz, University of British Columbia
2001	Jack Uetrecht, University of Toronto
2002	Thérèse Di Paolo-Chenevert, Université Laval
2003	Ed Knaus, University of Alberta
2004	John McNeill, University of British Columbia

PFIZER RESEARCH CAREER AWARD

2005	Raymond Reilly, University of Toronto
2006	Helen Burt, University of British Columbia
2007	Thomas Einarson, University of Toronto
2008	Kishor Wasan, University of British Columbia
2009	Murray Krahn, University of Toronto

RECIPIENTS OF THE AFPC BRISTOL-MYERS SQUIBB NATIONAL AWARD FOR EXCELLENCE IN EDUCATION

1995	Cheryl Cox, University of Alberta
1996	David Fielding, University of British Columbia
1997	Kristin Janke, Dalhousie University
1998	not awarded
1999	not awarded
2000	Pat Farmer, Susan Mansour, Anne Marie Whelan, Dalhousie
2001	Zubin Austin, University of Toronto
2002	Claude Mailhot, Université de Montréal
2003	Simon Albon, University of British Columbia
2004	Jean-Louis Brazier, Université de Montréal
2005	Andrea Cameron and Lesley Lavack, University of Toronto
2006	Steve McQuarrie and John Mercer, University of Alberta
2007	Louise Mallet, Université de Montréal
2008	Not Awarded
2009	David Gardner, Dalhousie University

RECIPIENTS OF THE AFPC NEW INVESTIGATOR AWARD

UPJOHN-AFPC New Investigator Award

1993	Jacques Turgeon, Université Laval
1994	Robert Foster, University of Alberta
1995	Wendy Duncan-Hewitt, University of Toronto
1996	D. Hampson, University of Toronto

ASTRA PHARMA - AFPC New Investigator Award

1997	Frank Burczynski, University of Manitoba
1998	R. Macgregor, University of Toronto
1999	S. Wu, University of Toronto

ASTRAZENECA – AFPC New Investigator Award

2000	Hu Liu, Memorial University of Newfoundland
2001	David Wishart, University of Alberta
2002	Kishor Wasan, University of British Columbia
2003	Jean-Christophe Leroux, Université de Montréal
2004	Pierre Moreau, Université de Montréal
2005	Heather Boon, University of Toronto
2006	Christine Allen, University of Toronto
2007	Zubin Austin, University of Toronto
2008	Frédéric Calon, Université Laval

sanofi-aventis – AFPC New Investigator Award

2009 Afsaneh Lavasanifar, University of Alberta

ROCHE GRADUATE STUDENT RESEARCH AWARD

1997 Diane Jette, University of Alberta
1998 Rajesh Krishna, University of British Columbia
1999 Jean François Bouchard, Université de Montréal
2000 Mark Lomaga, University of Toronto
2001 Amgad Habeeb, University of Alberta

GLAXOSMITHKLINE GRADUATE STUDENT RESEARCH AWARD

2002 Erica Rosemond, University of Toronto
2003 Huy H. Dao, Université de Montréal
2004 Thomas Chacko Pulinilkunnil, University of British Columbia
2005 Shirley Teng, University of Toronto
2006 Lichuan Liu, University of Toronto
2007 Patrick Ronaldson, University of Toronto
2008 Marie Lordkipanidzé, Université de Montréal
2009 Carl Julien, Université Laval

CANADIAN FOUNDATION FOR PHARMACY GRADUATE STUDENT AWARD FOR PHARMACY PRACTICE RESEARCH

2009 Marie Lordkipanidzé, Université de Montréal

WAL MART CANADA FUTURE ACADEMIC LEADER AWARDS

2008 Jennifer Beales (Toronto), Kelly Anne Grindrod (British Columbia),
Stephanie Lucas (Dalhousie), Cynthia Lui (Manitoba), Véronique Michaud
(Montréal)

2009 Nina Boucher (Laval), Judith Fisher (Toronto), Diala Harb (Montréal), Jason Kielly (Memorial), Marie Lordkipanidzé (Montréal), Shanna Trenaman (Dalhousie).

AFPC NATIONAL PHARMACY STUDENT RESEARCH POSTER AWARDS

2008 Mélanie Bousquet (Laval), Danny Costantini (Toronto), JR Colin Enman (Dalhousie), Daryl Fediuk (Manitoba), Sherif Hanafy Mahmoud (Alberta), Vincent Nichols (Montréal), Manhar Powar (British Columbia), Mohamed A. Shaker (Memorial), Tara Smith (Saskatchewan).

2009 Abeer Ahmed (Memorial), Aws Alshamsan (Alberta), Charles Au (British Columbia), Étienne Audet-Walsh (Laval), Graham Brown (Saskatchewan), Mark Chambers (Dalhousie), Kelvin KW Hui (Toronto), Maud Pinier (Montréal), Ousama M Rachid (Manitoba).

MERCK FROSST CANADA LTD POSTGRADUATE PHARMACY FELLOWSHIP AWARD

2008 Antonia Tsallas (British Columbia)
2009 Antonia Tsallas (British Columbia)

RECIPIENTS OF THE AFPC AWARD OF RECOGNITION FOR OUTSTANDING SUPPORT OF AFPC

1991	Fares Attalla
1992	Canadian Foundation for Pharmacy
1993	Jean-Guy Cyr
1994	Carl Trinca
1995	Yves Chicoine
1996	Pierre Bois
1997	Jeff Poston
1998	Gerald Duncan
1999	not awarded
2000	Ginette Bernier
2001	Richard Penna
2002	not awarded
2003	not awarded
2004	not awarded
2005	Walter Masanic
2006	Not awarded
2007	Not awarded
2008	Not awarded
2009	Not awarded

RECIPIENTS OF THE AFPC SPECIAL SERVICE AWARD

1992	Keith McErlane
1993	Helen Burt
1994	UBC Host Committee, 1993 AFPC Biotechnology Conference
1995	Ernst Stieb
1996	Pauline Beaulac
1997	not awarded
1998	not awarded
1999	not awarded
2000	not awarded
2001	Bernard Riedel, Ernst Stieb
2002	Wayne Hindmarsh, Jim Blackburn
2003	David Hill
2004	not awarded
2005	not awarded
2006	not awarded
2007	not awarded
2008	not awarded
2009	not awarded

AFPC HONOURED LIFE MEMBERS

*A.W. Matthews, Toronto, Ont., 1946-52, 1967	* G. Myers	Edmonton, AB 1989
*G.T. Cunningham Vancouver, B.C. 1947	*J. Ryan	Halifax, NS 1989
J.G. Richard Montréal, Quebec 1957	*F. Teare	Toronto, Ontario 1990
*J.R. Kennedy Toronto, Ontario 1959	K. James	Halifax, NS 1990
*A.F. Larose Montréal, Quebec 1960	G. Duff	Halifax, NS 1991
*J.I. MacKnight Halifax, NS 1964	*A. Noujaim	Edmonton, AB 1993
*J.E. Cooke Halifax, NS 1965	*M. Mezei	Halifax, NS 1994
*R. Larose Montréal, Quebec 1965	B. Schnell	Saskatoon, Sask. 1995
*R.C. Cary Toronto, Ontario 1966	G. Nairn	Toronto, Ontario 1995
*G.L. Webster Chicago, Illinois 1969	E. Stieb	Toronto, Ontario 1995
*J. Antonin Marquis Quebec, Quebec 1969	R. Coutts	Edmonton, AB 1996
*F.N. Hughes Toronto, Ontario 1973	A. Shysh	Edmonton, AB 1996
*Mrs. I. Stauffer Toronto, Ontario 1974	J. Steele	Winnipeg, MB 1996
*H.J. Fuller Toronto, Ontario 1974	I. Abraham	Halifax, NS 1998
*L.G. Elliott Montréal, Quebec 1974	P. Beaulac	Montréal, Quebec 1998
A. Archambault Montréal, Quebec 1975	F. Chandler	Halifax, NS 1998
*J.E. Halliday Vancouver, B.C. 1978	P. Farmer	Halifax, NS 1998
*G.C. Walker Toronto, Ontario 1979	R. Tawashi	Montréal, Quebec 1998
*M.J. Huston Edmonton, AB 1979	Gilles Barbeau	Québec City, QC, 2000
*A.J. Anderson Edmonton, AB 1980	Robert Goyer	Montréal, QC, 2000
*G.R. Paterson Toronto, Ontario 1980	Ted Hawes	Saskatoon, SK, 2000
*J.R. Murray Winnipeg, MB 1981	Gaston Labrecque	Québec City, QC, 2000
*J.J. O'Mara St. John's, NF 1981	Pierre-Paul LeBlanc	Québec City, QC, 2000
J.A. Wood Saskatoon, SK 1982	Dick Moskalyk	Edmonton, AB, 2000
L.G. Chatten Edmonton, AB 1983	James Orr	Vancouver, BC, 2000
F. Morrison Vancouver, B.C. 1983	Jacques Dumas	Québec QC 2001
*S.K. Sim Toronto, Ontario 1984	John Bachynsky,	Edmonton, AB, 2002
*J.G. Jeffrey Saskatoon, SK 1984	Don Lyster,	Vancouver, BC 2002
*D.J. Stewart Toronto, Ontario 1984	John Sinclair,	Vancouver, BC 2002
*R.M. Baxter Toronto, Ontario 1985	John Templeton,	Winnipeg MB 2002
B.E. Riedel Vancouver, B.C. 1985	Frank Abbott,	Vancouver, BC 2003
P. Claveau Laval, Quebec, QC 1986	Jacques Gagne	Montréal, QC 2004
*D. Zuck Saskatoon, SK 1986	John McNeill	Vancouver, BC 2004
G.E. Hartnett Saskatoon, SK 1986	Gail Bellward	Vancouver, BC 2004
*J.L. Summers Saskatoon, SK 1986	Peter O'Brien	Toronto, ON 2004
R. Bilous Winnipeg, MB 1987	Leonard Wiebe	Edmonton, AB 2005
L. Stephens-Newsham Edmonton, AB 1987	Colin Briggs	Winnipeg, MB 2005
T.H. Brown Vancouver, B.C. 1987	Joan Marshman	Toronto, ON 2005
*A.M. Goodeve Vancouver, B.C. 1987	Jim Blackburn	Saskatoon, SK 2006
*J.O. Runikis Vancouver, B.C. 1987	Keith McErlane	Vancouver, BC 2006
R. Plourde Montréal, Quebec 1987	Ed Knaus	Edmonton, AB 2008
*J.G. Moir Vancouver, B.C. 1988	Thomas Einarson	Toronto, ON 2008

AFPC HONOURED LIFE MEMBERS - continued

Pierre Belanger	Quebec, QC, 2009	

* Deceased

ANNUAL MEETINGS AND OFFICERS

C.C.P.F (1944-1969)

A.F.P.C. (1970- 2006)

YEAR	PLACE	PAST CHAIRMAN	CHAIRMAN	VICE CHAIRMAN	SEC/TRES*	Assist.SEC
1944(1)	Toronto		E.L. Woods		F.N. Hughes	
1945(2)	Bigwin Inn		E.L. Woods	R.O. Hurst	F.N. Hughes	
1946(3)	Toronto		E.L. Woods	R.O. Hurst	F.N. Hughes	
1947(4)	Vancouver	E.L. Woods	R.O. Hurst	D. McDougall	F.N. Hughes	
1948(5)	Windsor	E.L. Woods	R.O. Hurst	D. McDougall	F.N. Hughes	J.G. Jeffrey
1949(6)	Saskatoon	R.O. Hurst	M.J. Huston	J.A. Marquis	F.N. Hughes	J.G. Jeffrey
1950((7)	Montreal	M.J. Huston	J.A. Marquis	W.C. MacAulay	F.N. Hughes	J.G. Jeffrey
1951(8)	Calgary	J.A. Marquis	W.C. MacAulay	F.N. Hughes	D.H. Murray	
1952(9)	Toronto	W.C. MacAulay	F.N. Hughes	D. McDougall	D.H. Murray	
1953(10)	Winnipeg	F.N. Hughes	D. McDougall	A.F. Larose	D.H. Murray	
1954(11)	Halifax	D. McDougall	A.F. Larose	A.W. Matthews	G.C. Walker	
1955(12)	Vancouver	A.F. Larose	A.W. Matthews	J.E. Cooke	G.C. Walker	
1956(13)	Ottawa	A.W. Matthews	J.E. Cooke	R. Larose	G.C. Walker	
1957(14)	Montreal	J.E. Cooke	R. Larose	G.C. Walker	R.M. Baxter	
1958(15)	Edmonton	R. Larose	G.C. Walker	B.E. Riedel	R.M. Baxter	
1959(16)	Saint John	G.C. Walker	B.E. Riedel	J.G. Jeffrey	R.M. Baxter	
1960(17)	Saskatoon	B.E. Riedel	J.G. Jeffrey	F.A. Morrison	G.R. Paterson	
1961(18)	Hamilton	J.G. Jeffrey	F.A. Morrison	J.R. Murray	G.R. Paterson	
1962(19)	Vancouver	F.A. Morrison	J.R. Murray	R.M. Baxter	G.R. Paterson	
1963(20)	Winnipeg	J.R. Murray	R.M. Baxter	A. Archambault	A.J. Anderson	
1964(21)	Halifax	R.M. Baxter	A. Archambault	J.G. Duff	A.J. Anderson	
1965 (22)	Calgary	A. Archambault	J.G. Duff	G.R. Paterson	A.J. Anderson	
1966(23)	Saint John	J.G. Duff	G.R. Paterson	J.E. Halliday	W.R. Wensley	
1967(24)	Toronto	G.R. Paterson	J.E. Halliday	J.A. Wood	James/Goodeve**	Goodeve/Wood
1968(25)	Regina	J.E. Halliday	J.A. Wood	B.E. Riedel	J.G. Nairn	A.M. Goodeve
1969(26)	St. John's	J.A. Wood	B.E. Riedel	J.A. Mockle	J.G. Nairn	A.M. Goodeve
1970(27)**	Vancouver	B.E. Riedel	F.N. Hughes	J. Tremblay	J.G. Nairn	A.M. Goodeve
1971(28)	Winnipeg	F.N. Hughes	J.G. Nairn	P. Claveau	R.E. Moskalyk	A.M. Goodeve
1972(29)	Edmonton	J.G. Nairn	P. Claveau	A.M. Goodeve	R.A. Locock	O'Reilly/H.J. Segal
1973(30)	Halifax	P. Claveau	A.M. Goodeve	E.W. Stieb	R.F. Chandler	H.J. Segal

YEAR	PLACE	PAST CHAIRMAN	CHAIRMAN	VICE CHAIRMAN	SEC/TRES*	RECORDING SEC.
1974(31)	Ottawa	A.M. Goodeve	E.W. Stieb	G.E. Hartnett	R.F. Chandler	H.J. Segal/IL.I. Wiebe
1975(32)	Montréal	E.W. Stieb	G.E. Hartnett	J.W. Steele	K.W. Hindmarsh	R.M. Gentles/L. Goodeve
1976(33)	Saskatoon	G.E. Hartnett PAST PRESIDENT	J.W. Steele PRESIDENT	W.E. Alexander PRESIDENT ELECT	K.W. Hindmarsh	C.J. Briggs
1977(34)	Charlottetown	J.W. Steele	W.F. Alexander	K.W. Hindmarsh	F.W. Teare	C.J. Briggs
1978(35)	Victoria	W.E. Alexander	K.W. Hindmarsh	F.W. Teare	W.A. Parker	C.J. Briggs
EXECUTIVE DIRECTOR						
1979(36)	Sarnia	K.W. Hindmarsh	F.W. Teare	R.E. Moskalyk	J.A. Wood****	E.M. Hawes
1980(37)	Calgary	F.W. Teare	R.E. Moskalyk	C.J. Briggs	J.A. Wood	E.M. Hawes
1981(38)	Winnipeg	R.E. Moskalyk	C.J. Briggs	M. Mezei	J.A. Wood	E.M. Hawes
1982(39)	Ottawa	C.J. Briggs	M. Mezei	J.L. Summers	J.A. Wood	K.M. McLane
1983(40)	Montréal	M. Mezei	J.L. Summers	R. Tawashi	A.M. Goodeve	K.M. McLane
1984(41)	Vancouver	J.L. Summers	R. Tawashi	J. Gagné	A.M. Goodeve	K.M. McLane
1985(42)	Halifax	R. Tawashi	J. Gagné	J. Bachynsky	A.M. Goodeve	K.M. McLane
1986(43)	Québec	J. Gagné	J. Bachynsky	K. Simons	K.M. McLane	H.M. Burt
1987(44)	Jasper	J. Bachynsky	K. Simons	F. Chandler	K.M. McLane	H.M. Burt
1988(45)	Saint John	K. Simons	F. Chandler	S.M. Wallace	K.M. McLane	H.M. Burt
1989(46)	Portland	F. Chandler	S.M. Wallace	P. Beaulac	K.M. McLane	H.M. Burt
1990(47)	Regina	S.M. Wallace	P. Beaulac	H.M. Burt	K.M. McLane	M. Greer
1991(48)	St. John's	P. Beaulac	H.M. Burt	M. Spino	K.M. McLane	M. Greer
1992(49)	Winnipeg	P. Beaulac	H.M. Burt	M. Greer	K. Moody	J. Louvelle
1993(50)	Vancouver	H.M. Burt	M. Greer	R. Coutts	K. Moody	J. Louvelle
1994(51)	Charlottetown	H.M. Burt	M. Greer	R. Coutts	K. Moody	J.L. Glennie
1995(52)	Montréal	M. Greer	R. Coutts	J.L. Blackburn	K. Moody	J.L. Glennie
1996(53)	Calgary	M. Greer	R. Coutts	J.L. Blackburn	K.A. Ready	C.J. Turner
1997(54)	Vancouver	R. Coutts	J.L. Blackburn	D. Perrier	K.A. Ready	C.J. Turner/K.A. Ready
1998(55)	St. John's	J. L. Blackburn	D. Perrier	C.J. Turner/I. Sketris	K.A. Ready	K.A. Ready
1999 (56)	Québec City	D. Perrier	I. Sketris	D. Hill	K. Ready/J. Blackburn	
2000 (57)	Saskatoon	I. Sketris	D. Hill	D. Fielding	J.L. Blackburn	
2001 (58)	Ottawa	D. Hill	D. Fielding	A.J. Rémillard	J.L. Blackburn	
2002 (59)	Winnipeg	D. Fielding	A.J. Rémillard	L. Vercaigne	J.L. Blackburn	
2003 (60)	Montréal	A. J. Rémillard	L. Vercaigne	S. Mansour	J.L. Blackburn	
2004 (61)	Vancouver	L. Vercaigne	S. Mansour	S. Marleau	F. Abbott	
2005 (62)	Saskatoon	S. Mansour	S. Marleau	Z. Austin	F. Abbott	
2006 (63)	Edmonton	S. Marleau	Z. Austin	A. M. Whelan	F. Abbott	
2007 (64)	Montreal	Z. Austin	A. M. Whelan	S. Albon	F. Abbott	
2008 (65)	Chicago	A. M. Whelan	S. Albon	R. Dobson	F. Abbott	
2009 (66)	Halifax	S. Albon	R. Dobson	M. Namaka	F. Abbott	

* This office ceased to exist after the 1978 meeting.

This office was assumed by A.M. Goodeve in the Spring of 1967 due to the sudden illness of K.M. James. *Officers of the new organization, AFPC, assumed their offices on January 1, 1970, after a mail ballot.

The officers of 1968-69 served in the interim after the 1969 meeting. **** J.A. Wood was Executive Director from 1977-1982.

The following pages contain an overview of

The Activities of the

**Association of Faculties of Pharmacy of
Canada**

During the Period

July 1, 2008 to June 30, 2009

PART 1.0

66TH AFPC ANNUAL CONFERENCE

HELD

HALIFAX, NOVA SCOTIA

June 3-5, 2009



Association of Faculties of Pharmacy

66th Annual Conference Halifax, Nova Scotia



**AFFECTING CHANGE:
FROM ACADEMIA TO PRACTICE**
June 3 – 6, 2009



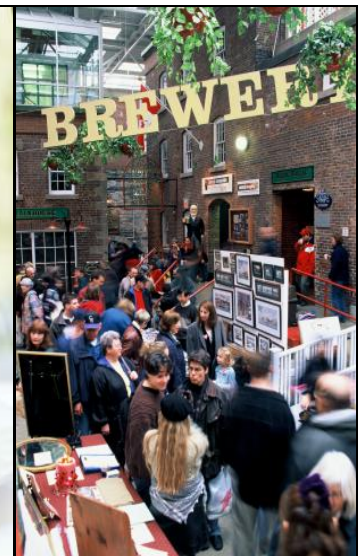
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Culture/W. Hayes



Destination Halifax/Nova Scotia
Tourism & Culture/W. Hayes



Destination Halifax
J. Ingram



Destination Halifax/HRM Scotia Tourism and
J. d'Entremont

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*WELCOME FROM ANNE MARIE WHELAN & HARRIET DAVIES AFPC
CO-CHAIRS*



Dear AFPC Members, Conference Delegates and Visitors:

Welcome to the 66th Annual General Meeting and Conference of AFPC!

The Dalhousie University College of Pharmacy is pleased to have the honour of hosting this year's conference in downtown Halifax across from the beautiful public gardens and a few short blocks from the university.

*AFPC has selected speakers and topics that reflect the conference theme: *Affecting Change: from Academia to Practice*. From the opening reception and award dinner, the annual general meeting, workshops, and presentations to the closing banquet on the Halifax waterfront at Pier 21, there will be many opportunities to meet and learn with old and new colleagues.*

We would like to thank the local Host Committee and subcommittees for their hard work and support in developing such a wonderful program and conference. We appreciate all the time and effort the members put into planning, organizing and implementing the conference. Additionally, we would like to thank Dr. Frank Abbott, Executive Director of AFPC who has also worked tirelessly to ensure this conference runs smoothly. Once again it has been a pleasure to work with him!

We hope you will enjoy this exciting conference and also have an opportunity to explore the beautiful province of Nova Scotia.

Sincerely,

*Anne Marie Whelan, PharmD
Harriet Davies, BSc (Pharm)*

Welcome from Roy Dobson AFPC President



Dear Colleagues and Delegates,

On behalf of the AFPC council and executive, I am pleased to welcome you to the 2009 AFPC Conference, held this year at the Lord Nelson Hotel and Suites in Halifax, Nova Scotia. The conference organizing committee, co-chaired by Anne Marie Whelan and Harriet Davies, has worked tirelessly to prepare a program that is both informative and engaging.

The opening reception offers a great opportunity for us all to meet and celebrate the excellence of our award winners in academic research, teaching and graduate studies. On Thursday, you are invited to participate in our plenary sessions and the first of two interactive sessions. Our General Meeting will also take place on Thursday, and will provide you with the chance to learn more about the activities of the AFPC council over the past year. Friday includes our pharmacy education research/innovation symposium, and the second of our interactive sessions. Friday concludes with our annual Awards Banquet.

In closing, I wish to thank everyone involved in making this conference a success. Our generous sponsors and their support that are so vital in making this event possible are also greatly appreciated. Thank you, everyone, for your work and support.

I look forward to meeting all of you over the next few days.

Sincerely,

A handwritten signature in black ink, appearing to be 'RD', written over a horizontal line.

*Roy Dobson, B.Sc.Pharm., MBA, PhD
AFPC President (2008-2009)*

Welcome from Rita Caldwell Director, College of Pharmacy, Dalhousie University



Dear Colleagues and Friends:

On behalf of the Planning Committee, Faculty and Students of the Dalhousie College of Pharmacy I am pleased to welcome you to historic Halifax and the 2009 Annual Conference of the Association of Faculties of Pharmacy of Canada.

The theme of our conference “Affecting Change: From Academia to Practice” couldn’t be more timely and relevant. A few days before our conference begins, the Education and Continuing Professional Development Blueprint Group will be releasing its implementation plan at the Canadian Pharmacists Association Conference. The plan will outline the top priorities, deliverables, potential leaders, and timelines necessary to achieve the strategic direction for education and professional development. This Blueprint vision for pharmacy can only be realized with the support of our strong educational programs.

Therefore, the educational topics for the AFPC Conference have been selected to champion academia’s role in supporting the Blueprint and moving the profession of pharmacy forward. We have an excellent selection of speakers that have been grouped into four emerging themes:

- Academia Supporting Change: Setting the Stage*
- Appreciating the Challenge: Motivation and Change*
- Pharmacy Education Research|Innovation: Embracing the Challenge*
- Building Bridges: Learning and Assessment Experiences that foster Professional Learning.*

A number of social events have been organized by the Planning Committee and I hope you take the opportunity to socialize with your colleagues and enjoy our beautiful city. One of the highlights will be our AFPC Awards Banquet at Pier 21 and a visit to Canada’s Immigration Museum, honouring the arrival of many new Canadians to our country.

I would like to especially thank the members of the Conference Planning Committee who have worked hard to provide you with this excellent conference.

Welcome to AFPC 2009 and Halifax. We hope you stay on to enjoy Canada’s Ocean Playground.

*Rita K. Caldwell, BSc(Pharm), MPhSA
Director, College of Pharmacy*

AFPC Conference Planning Committee



Co-Chairs

Anne Marie Whelan & Harriet Davies

Conference Budget

Rita Caldwell, Frank Abbott

Pharmacy Education Program

Corinne Tobin

Poster Session

Chair: Mary MacCara

Tannis Jürgens, Pollen Yeung

Student Award Winners Committee

Chair: Harriet Davies

Anne Marie Whelan

Social Committee

Chair: Susan Mansour

Elizabeth Foy

Kathy Walsh

Conference Program

Dianne Cox, Kate O'Brien, Anne Marie Whelan

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AFPC

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

**66TH ANNUAL MEETINGS AND
CONFERENCE**

June 3 - 6, 2009

**The Lord Nelson Hotel & Suites
Halifax, Nova Scotia**

**AFFECTING CHANGE: FROM
ACADEMIA TO PRACTICE**

AFPC CONFERENCE PROGRAM

WEDNESDAY, JUNE 3

- 3:00pm – 6:00pm Registration – outside Regency Ballroom
- 5:30pm - 6:00pm **Wal-Mart Canada/AFPC Future Academic Leader Award and AFPC- Pharmacy Student Research Poster Award Reception**
Regency Ballroom
- 6:00pm -6:45pm **Opening Reception**
Regency Ballroom
- 6:45pm – 10:00pm **Opening Dinner and Presentations by AFPC Award Winners**
Imperial Ballroom

THURSDAY, JUNE 4

- 8:00am – 5:00pm Registration - *outside Regency Ballroom*
- 8:00am – 8:30am Breakfast – *Regency Ballroom*
- 8:30am – 11:45am** PLENARY SESSION I - Imperial Ballroom
- ACADEMIA SUPPORTING CHANGE – SETTING THE STAGE*
Session Chair: Heidi Deal, BSc Pharm, Skills Lab IV Coordinator, College of Pharmacy, Dalhousie University
- 8:30am – 8:40am Host committee welcome
- 8:40am – 9:35am **THE BLUEPRINT: STRATEGIC ACTION IN EDUCATION AND CONTINUING PROFESSIONAL DEVELOPMENT**
Robert (Bob) Sindelar, Ph.D., FCAHS, Professor and Dean, Faculty of Pharmaceutical Sciences, The University of British Columbia
and
Arthur Whetstone Ed.D., M.A., B.Ed., B.A. (Hon), R.P.N., Executive Director, Canadian Council on Continuing Education in Pharmacy
- 9:35am - 10:25am **PREPARING PHARMACISTS FOR THE 21ST CENTURY: A US PERSPECTIVE**
Victor Yanchick, Ph.D., Dean, School of Pharmacy/AACP President, Virginia Commonwealth University, Richmond, VA
- 10:25am – 10:55am BREAK
- 10:55AM – 11:45am **CHANGE IN ACTION: THE UNIVERSITY OF WATERLOO EXPERIENCE**
Jake Thiessen, Ph.D., Hallman Director, School of Pharmacy; Director, Health Sciences Campus, University of Waterloo
- 12:00pm – 2:00pm AFPC ANNUAL GENERAL MEETING AND LUNCH - Regency Ballroom**

2:00pm – 5:00pm INTERACTIVE SESSION I - Imperial Ballroom

APPRECIATING THE CHALLENGE – MOTIVATION AND CHANGE

Session Chair: Kerry Goralski, Ph.D., Assistant Professor, College of Pharmacy, Dalhousie University

Michael Vallis, Ph.D., R. Psych. Clinical psychologist Queen Elizabeth II Health Sciences Centre, Halifax, NS; Associate Professor in Psychiatry & Adjunct Professor in Psychology, Dalhousie University.

3:15 pm– 3:45pm BREAK

5:00pm – 7:00pm ADPC/AFPC Joint Meeting – *Britannia Room (3rd floor Lord Nelson)*

5:00pm – 6:00pm TOUR OF THE COLLEGE OF PHARMACY

Free Evening Enjoy Halifax!

FRIDAY, JUNE 5

8:00am – 5:00pm Registration – *outside Regency Ballroom*

8:00am – 8:30am Breakfast – *Regency Ballroom*

8:30am – 3:30pm **POSTER SESSION - Regency Ballroom**

8:30am – 12:00pm PLENARY SESSION II - Imperial Ballroom

PHARMACY EDUCATION RESEARCH/INNOVATION – EMBRACING THE CHALLENGE

Session Chair: David Jakeman, Ph.D., Associate Professor, College of Pharmacy, Dalhousie University

8:30am – 8:50am **NATURAL HEALTH PRODUCTS (NHPS) AND PHARMACY STUDENTS: CORE COMPETENCIES**

Heather Boon, BSc. Phm., Ph.D., Associate Professor, Leslie Dan Faculty of Pharmacy, University of Toronto

8:50am – 9:40am **ENTRY LEVEL PHARMD ROTATIONS: THE MONTREAL EXPERIENCE**

Louise Mallet, BSc (Pharm), Pharm.D., CGP, Professor of Clinical Pharmacy, Faculté de Pharmacie, Université de Montréal; **Tania Choquette, B.Pharm.** Faculty of Pharmacy Université de Montréal; **Ema Ferreira, M.Sc., Pharm.D., FCSHP,** Faculty of Pharmacy, Université de Montréal

9:40am – 9:55am **THE DRUG INFORMATION RESOURCES WEBSITE: PROVIDING GUIDEPOSTS FOR INFORMATION RETRIEVAL**

Mary MacCara, BSc Pharm, APHR, Pharm, Associate Professor, College of Pharmacy, Faculty of Health Professions and Assistant Professor, Dept. Family Medicine, Dalhousie University

- 9 :55am – 10:15am **INSPIRING AND TEACHING PHARMACY STUDENTS & PRACTITIONERS TO KEEP UP-TO-DATE**
Elizabeth Foy, Professional Information Officer, College of Pharmacy, Dalhousie University
- 10:15am – 10:40am BREAK
- 10:40am – 11:25am **CRITICAL APPRAISAL SKILLS : A COMPARISON BETWEEN A CANADIAN AND A US SCHOOL**
David Gardner, BSc Pharm, PharmD, MSc (CH&E), Associate Professor, College of Pharmacy, Dalhousie University
- 11:25am - 11:40am **HELPING STUDENTS UNDERSTAND THE LINK BETWEEN ORGANIC CHEMISTRY AND DRUG ACTION: DEVELOPMENT OF A WEB-CT BASED COURSE SUPPLEMENT**
Tannis Jürgens, B.Sc Pharm, M.Sc., Ph.D., Associate Professor, College of Pharmacy, Dalhousie University
- 11:40am – 12:00pm **INTERMED-RX: HARMONY AND OPTIMAL THERAPY IN THE USE OF MEDICATION**
Jacques Turgeon, B. Pharm, PhD., Director of Research CRCHUM; Professor Pharmacy, Université de Montréal

12:00pm – 1:45pm Box Lunch: Poster Judging/Viewing - *Regency Ballroom*

1:45pm - 4:15pm **INTERACTIVE SESSION II - Imperial Ballroom**

BUILDING BRIDGES – LEARNING AND ASSESSMENT EXPERIENCES THAT FOSTER PROFESSIONAL LEARNING

Session Chair: Kim Sponagle, BSc Pharm, Skills Lab II coordinator, College of Pharmacy, Dalhousie University

K. Lynn Taylor, Ph.D., Director, Centre for Learning and Teaching, Dalhousie University

3 :00pm- 3 :30pm BREAK

6:00pm – 9:00pm **AFPC Awards Banquet - Pier 21**
(transportation provided from hotel lobby at 5:15)

SATURDAY, JUNE 6

8:30am –12:00pm **NEW AFPC COUNCIL MEETING**
Vanguard Room II, 3rd floor

CONFERENCE SPEAKERS'

Biographies, Abstracts & Handouts

Speaker presentations may be found at
<http://afpc.info/content.php?SectionID=4&ContentID=82&Language=en>



Thursday, June 4th speakers

Robert D. Sindelar, Ph.D., FCAHS (Bob), Dean, Faculty of Pharmaceutical Sciences, The University of British Columbia



Dr. Robert D. Sindelar returned to The University of British Columbia after he was appointed Dean, The Faculty of Pharmaceutical Sciences on September 1, 2002. This followed 19 years at the University of Mississippi where, for the last nine years of his tenure, he held the position of Professor and Chair of Medicinal Chemistry, School of Pharmacy and served as Interim Dean for a 1.5-year period from 2000 to 2001. Prior to his academic appointment at the University of Mississippi, he completed his postdoctoral study at UBC and the State University of New York at Buffalo. Dr. Sindelar obtained a B.A. degree in chemistry from Millikin University (1974) and M.S. (1975) and Ph.D. degrees (1980) in medicinal chemistry from the College of Pharmacy at The University of Iowa. Dr. Sindelar's expertise lies in medicinal chemistry, computer-aided drug discovery and design, pharmaceutical biotechnology, and creating opportunities to integrate innovation into the health care system. His research into drug design for modulators of the human immune resulted in about 60 refereed journal articles, six U.S. patents, several foreign patents and over 100 scientific and professional presentations. He serves as a member of the editorial boards of various scientific journals, including The APhA Biotechnology Initiative, Current Medicinal Chemistry, Current Patents in Infectious Diseases, Medicinal Chemistry, and the journal IDrugs: The Investigational New Drug Journal. Besides having co-edited a popular textbook on pharmaceutical biotechnology, which has been translated into several languages, Dr. Sindelar is the recipient of several School and University-wide teaching honors and has been inducted as a fellow in the Canadian Academy of Health Sciences. He currently sits on the Council of The College of Pharmacists of British Columbia, and serves on the Board of Directors of LifeSciences BC.

Arthur Whetstone, Ed.D., M.A., B.Ed., B.A. (Hon), R.P.N. , Executive Director, Canadian Council on Continuing Education in Pharmacy.



Dr. Arthur Whetstone joined the Canadian Council on Continuing Education in Pharmacy in 2006. He is also the principal of Whetstone Consulting which specializes in applied research and group facilitation in governance development, organizational and community development and strategic and business planning. His prior work experience includes seventeen years as president of Southeast Community College, three years at Athabasca University, and five years with the Alberta Alcohol and Drug Abuse Commission. He is currently a member of the Blueprint for Pharmacy Task Group and the co-chair of the Education and CPD Blueprint Working Group. He has been a director and president of the Saskatchewan Chamber of Commerce, a director of the Canadian Chamber of Commerce, a member of the Premier's Advisory Committee on the Economic Renewal, member of the Colleges Serving Rural and Remote Communities Task Group, founding chairperson and director of the Sunrise Community Futures Development Corporation, and founding director of the Dr. Margaret Savage Women's Crisis Centre. He was also a member, and chair of the third phase, of the Action Saskatchewan: Blueprint for Saskatchewan for the Chamber of Commerce. He has written and presented on a range of topics, including: Action Saskatchewan: A Blueprint for Saskatchewan; Models of Governance: What Fits for Me;

Approaches to Strategic Planning; The Partnership Syndrome: The Seven Factors of Successful Partnerships; Choices for the Reform of the Saskatchewan Training System; Systems, Substance, and Stardust: Taking Aim for Reform of the Saskatchewan College System in the Context of the Saskatchewan Education System; Context and Challenges of Reform of the Saskatchewan Training System; Access to Education and Training in Rural and Northern Saskatchewan: The Regional Learning Authorities Option; The Changes in Work and the Organization of Work. Book of Readings: Societal Factors Affecting Education. Dr. Whetstone is the recipient of *The Queen's Golden Jubilee Medal* awarded in "recognition of your significant achievements and contribution to your community and country," the *Award for Professional Excellence in Adult Education* awarded to an individual "in recognition of their contribution to adult education in Saskatchewan," and the *Distinguished Research Award* by Nova Southeastern University for his research on the reform of the Saskatchewan training system.

The Blueprint: Strategic Action in Education and Continuing Professional Development

The Blueprint for Pharmacy is a collaborative initiative designed to move pharmacy practice forward. The profession is in the midst of transitioning from a product-focused to a patient outcome-focused practice. The recognized future for pharmacist practice in Canada is based on the foundational principles of pharmaceutical care and medication management services focused on optimizing drug therapy outcomes for patients. The Blueprint is the plan to implement change and the Vision for Pharmacy: optimal drug therapy outcomes for Canadians through patient-centred care (www.pharmacists.ca/blueprint). While the vision was being communicated and organizations and individuals were being asked to commit to the Vision for Pharmacy, five expert members working groups were formed to draft an implementation plan that would actualize the Vision for Pharmacy: Education and continuing professional development (ECPD); Pharmacy human resources; Financial viability and sustainability; Legislation, regulation and liability; and Information and communication technology. This presentation will highlight the work of the ECPD Working Group to plan for and create some short-term wins, consolidate improvements and produce more change, and institutionalize new approaches. The proposed actions and deliverables will be enumerated along with timelines, potential leaders, and possible challenges.

Victor A. Yanchick, Ph.D., Dean, VCU School of Pharmacy/AACP President, Virginia Commonwealth University, Richmond, VA



Victor A. Yanchick was appointed Dean and Professor of the School of Pharmacy at Virginia Commonwealth University on July 1, 1996. Prior to his appointment at Virginia Commonwealth University he served for eleven years as Dean and Professor of Pharmacy at The University of Oklahoma Health Sciences Center College of Pharmacy. He began his academic career at The University of Texas at Austin holding various administrative positions including Assistant Dean for Academic Affairs and Associate Dean. He earned his Bachelor of Science degree in pharmacy and a Master of Science degree in Hospital Pharmacy from The University of Iowa. He also completed an ASHP-accredited residency program in hospital pharmacy from the University Hospitals in Iowa City, Iowa. Dr.

Yanchick received his Ph.D. from Purdue University.

He was named Distinguished Alumnus both from Purdue University School of Pharmacy and from the College of Pharmacy at The University of Iowa. In 2001 he was elected to the National Academies of Practice and holds membership in a number of national professional organizations. He has published many articles in the areas of geriatrics and gerontology, authored four book chapters, and has given over 200 invited presentations to professional groups and conferences. He has supervised the M.S. or Ph.D. programs of 20 graduate students.

Dr. Yanchick has a long standing involvement with the American Association of Colleges of Pharmacy (AACP). He was appointed as a member of the AACP's Commission to Implement Change in Pharmacy Education and served three separate terms on the AACP Board of Directors. Dr. Yanchick was elected Chair of the Council of Deans of this organization in 2005 and in July 2008 was inducted as President of the AACP.

Dr. Yanchick is married to the former Donna Bush and has two sons, Jeffrey and David, and one daughter, Jill Ann and seven grandchildren. His two sons are graduates of the University of Oklahoma College of Pharmacy.

For relaxation he enjoys watercolor painting, gardening, and is a Class A racquetball player.

Preparing Pharmacists for the 21st Century: a U.S. Perspective

A variety of outside trends in society and health care delivery in the United States have caused the Schools and Colleges of Pharmacy to restructure the educational programs for pharmacy education. In the late 1980's the Commission to Implement Change in Pharmacy Education established by the American Association of Colleges of Pharmacy proposed significant restructuring of the pharmacy curriculum and supported the move to the all PharmD as the sole entry for pharmacy practice. Over the last few years a number of well respected groups such as the Institute of Medicine (IOM) and the Joint Commission on Pharmacy Education (JCPP) have published documents that clearly outline major shifts in how health care should be delivered and what the responsibilities of the U.S. pharmacist will be in this new health care environment. Furthermore, the Accreditation Council for Pharmacy Education (ACPE) issued Standards 2007 which substantially revised their standards for accrediting pharmacy programs in the United States. These factors have substantially caused the schools and colleges of pharmacy in the United States to make substantial changes in curricular structure and content that is aimed at graduating pharmacy practitioners who will have the responsibility for medication therapy outcomes and function as a member of the health care team to improve the health of U.S. citizens and lower health care costs.

This program will review the evolution of the doctor of pharmacy program and will provide the audience with a current picture of the state of pharmacy education in the United States. In addition this program will give examples of what is now offered in the way of curricular design and will explain how students develop across the four year doctor of pharmacy program. In addition, this presentation will cover impact this new curriculum has made on community pharmacy practice, institutional pharmacy practice, managed care and on pharmacy education as a whole.

Jake J. Thiessen, Ph.D., Hallman Director, School of Pharmacy; Director, Health Sciences Campus, University of Waterloo



Jake is a Professor and Founding Director of the new School of Pharmacy, University of Waterloo. In the summer of 2006, he was also appointed as the Director of the new University of Waterloo Health Sciences Campus located in Kitchener. These positions have followed a 33 year career at University of Toronto that included the role of Associate Dean at the Leslie Dan Faculty of Pharmacy. While in Toronto, his teaching responsibilities principally entailed undergraduate and graduate pharmacokinetics. His independent and collaborative investigations focused on theoretical pharmacokinetic and pharmacodynamic concepts along with practical clinical pharmacotherapeutics. In most recent years, this research was directed at new approaches in cancer treatment, as well as strategies in treating patients with iron overload, notably as encountered in hemochromatosis and thalassemia. Since moving to the University of Waterloo, his research partnership with an electrical engineering team has lead to major Canadian Foundation for Innovation funding to develop terahertz technology. Despite his continuing research interests, his primary focus has naturally been the creation of a new academic enterprise. His leadership has been recognized by the Ontario Pharmacists Association with the 2008 distinguished Mortar and Pestle Award of Merit for individual outstanding achievement in pharmacy.

Change in Action: The University of Waterloo Experience

Establishing a new School of Pharmacy at a new Health Science Campus has afforded remarkable opportunities, especially as viewed inside a very entrepreneurial university. Without the normal constraints of history and tradition, an academic enterprise could be launched that pursued new developments in education, research, innovation and healthcare. Educational ambitions could entertain a leadership-creating environment infused with attributes like -- equipping, engaging, experiencing, inspiring.

This presentation will trace the vision, goals and progress of the enterprise by 1) outlining the beginning of the new School; 2) identifying the challenges of forming such a School within a university that is noted for engineering, mathematics and computer science; 3) spelling out the intended educational developments that include delivering an experiential component through co-op learning; 4) defining the ambitions in healthcare as expressed through the establishment of a primary care institute; 5) identifying impending, transformative research initiatives; 6) setting out the special opportunities accompanying the adjoining satellite medical program; 7) presenting elements of community engagement.

T. Michael Vallis, Ph.D., R. Psych., Clinical psychologist Queen Elizabeth II Health Sciences Centre, Halifax, NS; Associate Professor in Psychiatry & Adjunct Professor in Psychology, Dalhousie University.



Dr. Vallis is a registered health psychologist practicing at the Capital District Health Authority, Halifax, and cross-appointed to Dalhousie University as Associate Professor in Psychiatry and Adjunct Professor in Psychology. He obtained his Ph.D. from the University of Western Ontario, London and his main area of expertise is in adult health psychology, with a clinical emphasis on diabetes, gastroenterology, cardiovascular risk and obesity. He has developed the CDHA Behaviour Change Institute, a training program for lifestyle counselling skills for physicians, nurses, dietitians and other healthcare providers. He regularly supervises clinical and academic students at Dalhousie and is active in research on motivation, behavioural change and adaptation to chronic disease.

Appreciating The Challenge – Motivation And Change

Nothing is as constant as change. Although this is true, one interesting thing about change is that it is often resisted. Humans appear capable of both inertia as well as momentum. This helps explain why many who promote change with enthusiasm are greeted with something between a lackluster acceptance and outright resistance. The purpose of this workshop is to present the evidence regarding how to increase the likelihood that change will occur when the idea behind, and the motivation for the change, comes from outside of the person. Concepts such as readiness, self-efficacy, and processes of change will be presented. The session will blend didactic and experiential methods. At the end of the session, the participant will have a greater understanding of why change is resisted and will have greater confidence in support the process of change.

Friday, June 5th speakers

Heather Boon, BSc. Phm., Ph.D., Associate Professor, Leslie Dan Faculty of Pharmacy, University of Toronto



Heather Boon, BScPhm, Ph.D., is an Associate Professor in the Leslie Dan Faculty of Pharmacy, University of Toronto. She is co-directs IN-CAM (the Canadian Interdisciplinary Network for Complementary and Alternative Medicine Research) and is the current Chair of Health Canada's Expert Advisory Committee for Natural Health Products. Her primary research interests are patients' use of complementary/alternative medicine, the safety and efficacy of natural health products and complementary/alternative medicine regulation and policy issues.

Natural Health Products (NHPs) and Pharmacy Students: Core Competencies

Natural health products (NHPs) such as herbal medicines and vitamins are sold in virtually every community pharmacy and used over 70% of Canadians. Yet what pharmacists are taught about NHPs varies widely across Canada. The purpose of our project was to reach consensus on core natural health product (NHP)-related competency statements for Canadian pharmacy students upon entry to practice. Selected pharmacy educators from Canada and the United States, and representatives from Canadian pharmacy organizations (total n=17) ranked their agreement, using a 5-point Likert scale with competency statements derived from qualitative interviews with 35 key informants, 16 focus groups of Canadian pharmacists and consumers, and a survey of 3356 licensed Canadian pharmacists. Consensus was defined through an iterative process as occurring when all participants ranked a given competency statement 4 (very important) or 5 (essential). After four Delphi rounds, three core NHP-related competencies were identified broadly summarized as: 1) the ability to incorporate NHP knowledge when providing pharmaceutical care; 2) the ability to access and critically appraise sources of information related to NHPs and 3) the ability to provide appropriate education to patients and other health care providers on the effectiveness and potential adverse effects and drug interactions of NHPs. An additional two NHP-related competency statements, related to NHP regulation and reporting NHPs-related adverse events, emerged as important, but consensus that they should be considered core competencies was not achieved. Canadian pharmacists need to be knowledgeable in the area of NHPs and if the developed core NHP-related competency statements agreed upon are widely implemented, newly graduating Canadian pharmacists will be able to fulfill their professional responsibilities related to NHPs.

Louise Mallet, BSc (Pharm), Pharm.D., CGP, Professor of Clinical Pharmacy, Faculté de Pharmacie, Université de Montréal



Louise Mallet is Clinical Professor of Pharmacy at the University of Montreal. She is also a clinical pharmacist specializing in geriatrics at Royal Victoria Hospital in Montreal. She is also a Clinical Adjunct Professor in the Faculty of Medicine, McGill University, and an

Dr. Mallet is the co-editor of two pharmaceutical textbooks and has authored or co-authored more than two dozen book chapters and close to 100 articles for refereed and professional journals. Dr. Mallet has received research funding to investigate such topics as reducing medication-related falls and training caregivers for the elderly.

Louise is currently responsible for the development of the clinical clerkships in the Doctor of pharmacy program.

Tania Choquette, B.Pharm.

In 2000, Tania Choquette completed a bachelor's degree in Pharmacy at Université de Montréal. She worked full time for 5 years in a community pharmacy and then joined the Faculty of Pharmacy at the University of Montreal as the clinical coordinator for the experiential learning program of the first degree Pharm.D. and Bachelor programs. Since 2005, her time is shared between the Faculty of Pharmacy and community pharmacy.

As the clinical coordinator at the Faculty of pharmacy, Tania Choquette leads a team of two pharmacists, two coordinators and secretaries in all activities related to the experiential learning experiences of the two first degree programs. She actively participated in developing the two first experiential learning experiences of the Pharm.D. program and is responsible of developing the two experiential learning experiences in community pharmacy of the program's final year. She is also a lecturer in courses to preceptors and a dermatology course to pharmacists as well as an instructor for courses in the Bachelor degree such as communication and pharmaceutical approach courses.

At the pharmacy, she has received a commitment award for her work within the pharmacy to improve technical training and in her community with students and patients.

Ema Ferreira, B.Pharm., M.Sc., Pharm.D., FCSHP



In 1991, Dr Ferreira completed a bachelor's degree in Pharmacy at Université de Montréal followed by a Master's degree in hospital pharmacy from the same institution. After working for 3 years in hospital and community pharmacy, Dr Ferreira enrolled in the Pharm.D. program at the University of British Columbia which she completed in 1997. A residency in perinatology at BC Women and Children's Hospital and Long Beach Memorial Hospital was a prerequisite for a joint position between CHU Ste-Justine and Faculty of Pharmacy, Université de Montréal which she has held since 1997.

Dr Ferreira is a clinical associate professor teaching obstetrics and gynaecology therapeutics, contraception, drugs use during pregnancy and lactation and pharmacy clerkships. She has received several teaching awards.

At CHU Ste-Justine, she is been actively involved in patient care in obstetrics and gynecology. Dr Ferreira is also involved in research in the field of the use of drugs during pregnancy and lactation.

Dr Ferreira is the author of numerous publications and conferences related to fields of interests such as contraception and drugs in pregnancy and lactation. She recently edited a pregnancy and lactation therapeutics textbook titled "Grossesse et allaitement: guide thérapeutique".

Entry Level Pharm D Rotations: The Montreal Experience

At the end of this presentation, the learner will be able to:

Outline the organization structure for the development of the Pharm.D. experiential learning program;

List the barriers for the development of the Pharm.D. experiential learning program;

Describe the first community clinical clerkship of the Pharm.D. program.

Mary MacCara, BSc Pharm, APHR, PharmD, Associate Professor, College of Pharmacy, Faculty of Health Professions and Assistant Professor, Dept. Family Medicine, Dalhousie University



Mary MacCara completed a BSc (Pharm) at Dalhousie University, a Pharm D at the University of Minnesota and a hospital pharmacy residency program at the Halifax Infirmiry/Dalhousie University. Before entering the world of academia, she worked briefly in both hospital and community pharmacy. She is currently an Associate Professor at the College of Pharmacy and an Assistant Professor, Department of Family Medicine, Dalhousie University. She teaches Critical Appraisal to the second year pharmacy students and serves as Coordinator of fourth year Problem Based Learning Classes. She has been the Dalhousie representative on AFPC Council since 2005 and is currently chair of the AFPC Awards Committee.

The Drug Information Resources Website: Providing Guideposts for Information Retrieval

The Drug Information Resources (DIR) website (<http://dir.pharmacy.dal.ca/>) is used as a teaching tool with students at the College of Pharmacy, Dalhousie University, to help them develop knowledge of useful information resources. It is also used by pharmacists and others from around the world to locate sources of information (i.e., websites, journal articles, texts, etc.) concerning drug, health and pharmacy topics. This session will highlight the unique features of DIR and how the website is being developed to meet the needs of its users.

Elizabeth Foy, Professional Information Officer, College of Pharmacy, Dalhousie University



Elizabeth “Liz” Foy moved to Canada from the United States in July 1968, and since that time has been responsible for the day-to-day running of the Pharmacy Library, the only branch of Dalhousie’s W.K. Kellogg Health Sciences Library. She holds a joint appointment at the College of Pharmacy as Professional Information Officer. She has instructed pharmacy students, faculty and pharmacists and also nurse practitioner students in drug- and pharmacy-related information topics through oral, written and online presentations.

Every two weeks, Liz and the students who work in the Pharmacy Library, prepare *In the News*, a listing of citations for drug- and pharmacy-related news, hyperlinked to documents and abstracts of journal articles on which news is based. It can be found on the College’s website under Resources.

Liz is the co-author, along with Dr. Mary MacCara, of the College website: *Drug Information Resources: A Guide for Pharmacists (DIR)*. For the past two years, Liz has been working with several pharmacy students and the College’s Coordinators of Clinical Education and Continuing Pharmacy Education, to design self-directed learning modules to instruct pharmacy preceptors on how to access and use the Dalhousie Libraries’ electronic resources as well as freely-accessible Internet-based resources.

Liz is the recipient of six pharmacy- or work-related awards including the Dr. Jessie I. MacKnight Award for Excellence in Pharmaceutical Teaching (2007) and the Dalhousie University Rosemary Gill Award for Outstanding Service to Students (1998).

Inspiring and Teaching Pharmacy Students & Practitioners to Keep Up-to-Date

One of the aims of the curriculum at the Dalhousie College of Pharmacy is to graduate effective and efficient life-long learners. Part of life-long learning is keeping up-to-date which is especially important for pharmacists due to a never-ending stream of drug- and pharmacy-related news. We need to inspire our students and also the practitioners who teach our students to keep up-to-date and suggest ways for them to do this. As well, we need to make sure that they can identify the studies, reports and other documents on which the news is based.

In first year pharmacy at Dalhousie, a *New York Times*-based short news assignment is given as part of Skills Lab. In the second year Critical Appraisal Series (CAS), a one-hour lecture is presented in the fall term, covering the following topics:

- Gathering news: Passive vs. active;
- Subscribing to online news websites
- Subscribing to email alerts of table of contents pages from your favourite or high impact journals
- Formulating PubMed stored searches for your favourite topics (My NCBI)
- Keeping up-to-date using your eyes and ears
- Keeping up-to-date monitoring “*In the News*” on the College’s website.

An interactive online module on “Keeping Up-to-Date” has been designed for practitioners. For the future, we plan to learn more about and cover the potential usefulness to pharmacists of podcasts, weblogs, RSS feeds and the latest trend, Twitter.

David M. Gardner, BSc (Pharm), PharmD, MSc (CH&E), Associate Professor, College of Pharmacy, Dalhousie University



Dr. David Gardner is an Associate Professor with the Department of Psychiatry at Dalhousie University and also holds appointments with the College of Pharmacy and Department of Pharmacology. He received his undergraduate degree in pharmacy from the University of Toronto (1988), his Doctor of Pharmacy from the University of British Columbia (1997), and his Master of Science in Community Health & Epidemiology from Dalhousie University (2003).

David's interests include pharmacoepidemiology, evidence-based clinical practice, the pharmacotherapy of mood disorders and schizophrenia, and collaborative practice. He developed the Critical Appraisal Series, a 3-term course, for Dalhousie's undergraduate pharmacy students and he

coordinates the Psychiatry Department's critical appraisal journal club.

David is an active researcher and educator with over 50 peer reviewed publications, multiple research projects, and several teaching awards from Dalhousie. He is a member of the Science Advisory Committee of the Mental Health Commission of Canada. Clinically, David is a member of the Early Psychosis Program of Nova Scotia in Halifax.

Critical Appraisal Skills: A Comparison Between A Canadian And A US School

In 1998 the first year of the Critical Appraisal Series (CAS) was introduced to second year students at Dalhousie University's College of Pharmacy. In the following 2 years the third and fourth year components were added, and since then the 3 year, 5 term weekly course has become a major and distinctive component of the undergraduate curriculum at Dalhousie. The content of CAS overlaps and goes beyond the objectives of traditional pharmacy courses including biostatistics, research methods, and drug information and delivers the learning opportunities using a unique mix of learning formats and environments. Evaluation methods are varied, ranging from traditional exams to peer evaluation. CAS-related abilities and their assessment have been increasingly integrated into other components of the College's curriculum. This led to the development of the Dalhousie Pharmacist's Patient Care Model, which assimilates the pharmaceutical care model with evidence based medicine process and skill set. Recently, a study was completed that compared Dalhousie 3rd year pharmacy students with 3rd year students attending a traditional US PharmD program at Western University of Health Sciences in Pomona, California. Students completed the same exam evaluating their CAS knowledge and abilities, which included an assessment of their appraisal and application skills using a contemporary published drug therapy clinical study. They also completed the same self-assessment of their evidence-based abilities. The results of this study will be presented.

Tannis Jurgens, BSc (Pharm), MSc, Ph.D., Associate Professor, College of Pharmacy, Dalhousie University



Tannis Jurgens graduated from Dalhousie's College of Pharmacy with a BSc in Pharmacy, followed by an MSc in Pharmacognosy. Tannis went on to earn a PhD in Pharmacognosy from the University of Mississippi. Dr Jurgens worked as a Senior Research Chemist at Merck and Co Inc in Rahway NJ, USA.

An opportunity to return to Dalhousie University as an Assistant Professor allowed Tannis to pursue her first passion; teaching and to refocus her research to combine her background in pharmacy with her knowledge of the chemistry of natural health products (NHPs). Her research interest is in examining the impact that the variability in NHP content can have on the results of clinical trials and in translating best evidence of efficacy of NHPs into information pharmacists can use in practice. Recent projects have focused on the critical appraisal of RCTs of NHPs and the use of NHPs in women's health issues.

Dr Jurgens' teaching responsibilities include medicinal chemistry and natural health products. The therapeutically focused problem-based curriculum at the College of Pharmacy provides the perfect platform to help students understand the link between the chemical properties of drugs and their actions. Dr David Jakeman and Dr Jurgens, with funding from Dalhousie's Center for Learning and Teaching, have developed a computer based module to help students develop confidence in applying chemical principles to drugs.

Helping students understand the link between organic chemistry and drug action: development of a web-CT based course supplement.

Tannis Jurgens, David Jakeman and Leah Sutherland., College of Pharmacy, Dalhousie University, Halifax NS B3H 3J5.

Generations of pharmacy students have often found it difficult to identify connections between structural differences in drugs and how that relates to therapeutic options. In an attempt to illustrate the role medicinal chemistry can have in understanding the therapeutic benefits and risks of drugs, the College of Pharmacy implemented a Problem-Based Learning curriculum in which medicinal chemistry concepts are integrated into each therapeutically focused case. Many students, however, lack confidence in applying their knowledge of organic chemistry to the structure of drugs. To support these students, we have developed a Web-CT based course supplement consisting of over 400 multiple choice questions, each focused on the structure of a drug. Developed to reinforce knowledge of common organic principles by having students apply principles to the structure of drugs, topics include: functional groups, stereochemistry, bonds, resonance, electronegativity, solubility, acids and bases and metabolic reactions. The supplement has been pilot tested and will be implemented within the next year. The effectiveness of the supplement will be evaluated by comparing test results of students who have not used the supplement to those who have. Funded by Dalhousie University Centre for Teaching and Learning.

Jacques Turgeon, B.Pharm., Ph.D., Director of Research CRCHUM & Professor, Pharmacy, Université de Montréal



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Since spring 2007, Dr. Jacques Turgeon has been appointed Director of Research at the Centre hospitalier de l'Université de Montréal. From 2005-2007 he was Vice-Rector — Research, Université de Montréal and from 2000-2005, he has served as Dean of the Faculté de pharmacie, Université de Montréal. He received his Bachelor degree in Pharmacy in 1983 from Laval University in Quebec city followed by an M.Sc. degree in pharmacokinetics and a Ph.D. degree in drug metabolism from the same institution in 1985 and 1988, respectively. He completed post-doctoral studies from 1988 to 1990 in the department of Clinical Pharmacology, Vanderbilt University in Nashville, U.S.A., under the supervision of Dr.

Dan M. Roden. He joined the Faculty of Pharmacy of Laval University in 1990 as a assistant professor. He was promoted to the rank of associate professor in 1993 and full professor in 1998. From March 1999 to May 2000, he was Senior Director of the Pharmacokinetics department at Phoenix International Life Sciences. Research interests of Dr. Turgeon have always been directed towards the study of factors responsible for intersubject variability in drug response. More specifically, he has developed expertise in the role of pharmacogenetics in cardiovascular drug actions. Among his favourite topics were the study of drug-drug interactions leading to pharmacodynamics modulation of antiarrhythmic drug action. Dr. Turgeon has integrated in his research approaches *in vitro* (patch-clamp technique, *in vitro* metabolism and molecular biology) models as well as designed and performed studies in healthy volunteers and patients. He has published more than 100 referred articles and more than 260 abstracts. Dr. Turgeon has received numerous prizes for his research activities as well as recognition by the students for his teaching skills. He is a member of numerous societies and has been acting on the committees of several granting agencies for several years. He has been the Director of the Quebec Cardiovascular Network of the FRSQ and the Research Director of the Quebec Heart Institute, Laval Hospital.

InterMed-Rx : Harmony and Optimal Therapy in the Use of Medication

Monitoring of drug-drug interactions is one of the most important professional tasks accomplished by clinical pharmacists. Health professionals rely on the expertise and competencies of pharmacists in establishing the optimal drug regimen. Today, those drug regimens for several pathologies include numerous drug entities. This is explained by the availability of several classes of drugs as well as by clinical guidelines demanding that specific end-points be attained. In view of the complexity and number of drug drug interactions that can be encountered, the development of technological tools to assist pharmacists in their decision process is therefore needed. In the course of this conference, basic principles of pharmacokinetics, drug metabolism and drug-drug interactions will be reviewed. Simple principles will be explained to help clinicians identify and manage drug interactions. Notions such as CYP450 isozymes, drug affinity for an enzyme, metabolic pathways and drug bioavailability will be reviewed. Finally, tools available for the monitoring of drug-drug interactions will be presented and compared (First DataBank, Rx Vigilance, Epocrates Rx, etc...). A special look will be made to Intermed-Rx. Intermed-Rx is a free access website (www.ittermed-rx.ca) that provides the clinicians with a comprehensive list of drugs and their classification according to CYP450 isozymes. Drugs are classed as Inhibitors, Substrates or Inducers. A unique feature of Intermed-Rx is to sub-classify substrates based on their high, medium or low affinity characteristics. A complete analysis of drug-drug interaction is also possible by the generation of a table that regroups and illustrates at the same time all drugs in the therapeutic regimen of a patient. Clinical cases will be presented with the analysis of drug-drug interactions identified.

K. Lynn Taylor, Ph.D., Director, Centre for Learning and Teaching, Dalhousie University



Lynn Taylor is the Director of the Centre for Learning and Teaching at Dalhousie University, where her primary academic responsibilities are for educational development across the disciplines. In her doctoral studies (Ph.D., 1992), she specialized in cognitive science theory and research methods, and in particular, in human problem solving. Lynn's practice and scholarship interests include: teaching and learning in higher education, educational development, the scholarship of teaching and learning, academic integrity, and academic leadership. Within Canada, Lynn is active in the Society for Teaching and Learning in Higher Education (STLHE), completing terms as Vice-President (Scholarship of Teaching and Learning) and as Vice-Chair (Professional Development) of the STLHE Educational

Developers' Caucus. Internationally, she has served multiple executive roles for the Special Interest Group for Faculty Teaching, Evaluation, and Development, affiliated with the American Educational Research Association. Lynn is a founding member of the International Society for the Scholarship of Teaching and Learning, and serves on the editorial boards of *Canadian Journal for the Scholarship of Teaching and Learning*, *International Journal for Academic Development*, *MountainRise* (an electronic journal dedicated to the Scholarship of Teaching and Learning), and *Transformative Dialogues*. She also serves as co-editor of the *International Journal for Academic Development*.

Building Bridges: Learning and Assessment Experiences that Foster Professional Learning

Developing the scope of professional expertise inherent in the "blueprint" for contemporary Pharmacy practice is a complex teaching and learning task, requiring a synergy of conceptual knowledge, clinical reasoning, communication skills, and the values and practices of the profession. Ironically, it is the nature of expertise itself that often presents the greatest challenge to successful learning experiences. Experts often find themselves hard pressed to articulate the full spectrum of knowledge embedded in a task, to facilitate reflection and discussion about the processes involved, or to provide opportunities to practice and receive feedback. In this "capstone" session, we will identify some of these challenges and draw on all of the sessions of the conference to explore how specific examples of learning experiences in pharmacy programs can be (re-)designed to build more bridges to professional practice. Participants are invited to bring examples of learning activities or assignments they would like to "workshop" with colleagues to optimize 1) the learning value of the activity within a particular course and 2) the capacity of the experience to bridge learning in an academic context to professional practice. The examples generated will be compiled and shared with all participants.

AFPC AWARD WINNERS



AFPC-BRISTOL-MYERS SQUIBB NATIONAL AWARD FOR EXCELLENCE IN EDUCATION

**David M. Gardner, BSc (Pharm), PharmD, MSc (CH&E), Associate Professor,
College of Pharmacy, Dalhousie University**



Dr. David Gardner is an Associate Professor with the Department of Psychiatry at Dalhousie University and also holds appointments with the College of Pharmacy and Department of Pharmacology. He received his undergraduate degree in pharmacy from the University of Toronto (1988), his Doctor of Pharmacy from the University of British Columbia (1997), and his Master of Science in Community Health & Epidemiology from Dalhousie University (2003).

David's interests include pharmacoepidemiology, evidence-based clinical practice, the pharmacotherapy of mood disorders and schizophrenia, and collaborative practice. He developed the Critical Appraisal Series, a 3-term course, for Dalhousie's undergraduate pharmacy students and he coordinates the Psychiatry Department's critical appraisal journal club.

David is an active researcher and educator with over 50 peer reviewed publications, multiple research projects, and several teaching awards from Dalhousie. He is a member of the Science Advisory Committee of the Mental Health Commission of Canada. Clinically, David is a member of the Early Psychosis Program of Nova Scotia in Halifax.

Critical Appraisal Series (CAS) at Dalhousie's College of Pharmacy

The year 2009 marks the 11th anniversary of the Critical Appraisal Series (CAS) at Dalhousie's College of Pharmacy. At the time, the introduction of a 3 year, 5 term weekly course added a novel curricular component to the newly introduced problem-based learning curriculum. At its core are the tenets of evidence-based medicine whereby students are expected to be able to develop answerable clinical questions, efficiently locate the best available evidence, determine the validity, importance, and applicability of the evidence, appreciate the gaps in knowledge, and communicate their findings to support informed decisions. CAS and the other components of the curriculum at the College allow students to develop these skills with increasing sophistication and integrate them with pharmaceutical care. Recently the College of Pharmacy has overtly integrated the evidence-based practice steps with the pharmaceutical care model with its development of the Dalhousie Pharmacist's Patient Care Model, which is being used to further integrate critical appraisal abilities throughout the undergraduate program. Looking back, the original idea of creating a critical appraisal thread that runs throughout the curriculum has become a distinctive and defining feature of the Dalhousie program and is influencing other Canadian and US pharmacy curriculum as well as pharmacy practice.

AFPC-GLAXOSMITHKLINE GRADUATE STUDENT RESEARCH AWARD

Carl Julien, PhD candidate, Faculté de pharmacie, Université Laval



After graduating with a BSc in microbiology at Laval University, Carl Julien started his PhD studies in the laboratory of Dr Frédéric Calon. Carl is actually the first graduate student ever supervised by Dr Calon. Carl's graduate studies focused on the role of environmental factors in Alzheimer's disease (AD). To that aim, their research team developed and maintained a colony of a triple transgenic mouse modeling AD (3xTg-AD) in collaboration with Dr Frank LaFerla (University of California, Irvine). Carl played a key role in setting up the colony, developing a database, managing simultaneous research projects, and performing behavioral and post mortem experiments. With these mice, they were particularly interested in investigating omega-3 polyunsaturated fatty acids, total amount of fat and antioxidants. Carl also worked on human brain samples from patients who suffered from neurodegenerative disease and the results are contained in 3 recent publications. Carl is supported by the Fond de soutien à la recherche from the Faculty of Pharmacy at Laval University, the Fonds de la recherche en santé du Québec and the Alzheimer Society Canada. Carl plans to defend his PhD thesis before the end of 2009 and then begin postdoctoral training.

High-fat diet aggravates amyloid-beta and tau pathologies in the 3xTg-AD mouse model

Carl Julien, Cyntia Tremblay, Alix Phivilay, Line Berthiaume, Vincent Émond, Pierre Julien, Frédéric Calon, Neurobiology of Aging - 16 October 2008 (10.1016/j.neurobiolaging.2008.08.022)

The identification of environmental factors that modify the risk of developing Alzheimer disease (AD) can lead to the development of preventive interventions. Recent epidemiological and preclinical findings suggest that dietary fats can impact the pathogenesis of AD. Here, we exposed the triple transgenic mouse model of AD (3xTg-AD) from 4 to 13 months of age to diets with a low n-3:n-6 polyunsaturated fatty acid (PUFA) ratio incorporated either in low-fat (5% w/w) or high-fat westernized (35% w/w) formulas, compared with a control diet. Gas chromatography analyses first showed that n-3:n-6 PUFA ratio was spontaneously decreased in the frontal cortex of 3xTg-AD mice at 13 months. In addition, low n-3:n-6 PUFA dietary ratio led to decrease brain docosahexaenoic acid (DHA), an effect exacerbated in 3xTg-AD mice compared to control littermates. Exposure to a high-fat westernized diet with a low n-3:n-6 PUFA ratio increased amyloid- β ($A\beta$) 40 and 42 concentrations in detergent-insoluble ($A\beta_{40}$: +871%, $p < 0.0039$; $A\beta_{42}$: +912%, $p < 0.0020$) extracts of parieto-temporal cortex homogenates from 3xTg-AD mice. Low n-3:n-6 PUFA intake ratio increased insoluble tau (+97%, $p < 0.05$) whereas high-fat westernized diet increased both soluble tau (+153%, $p < 0.05$) and insoluble tau (+69%, $p < 0.05$) compared to controls. The high-fat diet also decreased cortical levels of the postsynaptic marker drebrin, while leaving synaptophysin, SNAP25, apolipoprotein E (ApoE) and total oxidized proteins unchanged. Two-way ANOVA showed that transgenes expression downregulated sortilin-related receptor SorLA/LR11 (LR11; $p < 0.0001$), cofilin ($p < 0.0001$), and p21-activated kinases (PAK; $p < 0.0001$) levels normalized to actin, and that dietary treatments significantly altered actin-normalized glial fibrillary acidic protein (GFAP; $p = 0.0095$), cofilin ($p < 0.0001$) and the membrane-cytosolic translocation of drebrin ($p = 0.0014$). Overall, these results indicates that (1) the brain of 3xTg-AD mice contains less n-3 PUFA and more n-6 PUFAs than controls and displays an increased vulnerability to dietary DHA depletion as well as a deficiency in synaptic proteins; and (2) low n-3 PUFA intake combined with the consumption of very high amount of dietary fats increased $A\beta$ deposition, tau accumulation and membrane drebrin, three important neuropathological markers of AD.

AFPC-SANOFI-AVENTIS NEW INVESTIGATOR RESEARCH AWARD

Afsaneh Lavasanifar, Pharm.D., Ph.D., Associate Professor, Faculty of Pharmacy and Pharmaceutical Sciences; Adjunct Professor, Department of Chemical and Material Engineering, Faculty of Engineering, University of Alberta



Dr Afsaneh Lavasanifar began her academic career in the Faculty of Pharmacy and Pharmaceutical Sciences of the University of Alberta as an assistant professor in November 2001. She was promoted to the associate level in 2005 and became an adjunct professor in the department of Chemical and Material Engineering of the University of Alberta in May 2009. Afsaneh has completed her PhD in Pharmaceutical Sciences under the co-supervision of Dr John Samuel (University of Alberta) and Dr Glen Kwon (University of Wisconsin). She has a Pharm. D. degree from Faculty of Pharmacy, Tehran University of Medical Sciences and has been a lecturer in Pharmaceutics in the Faculty of Pharmacy, Dr Beheshti University of Medical

Sciences, Tehran, Iran before embarking graduate studies in Alberta. Her research is focused on the design and development of polymer based delivery systems that can increase solubility, modify the pharmacokinetic pattern, reduce toxicity and increase the efficacy of different therapeutic agents. The ongoing research projects in her laboratory include development of polymeric nano-carriers as systemic and regional delivery systems for cancer chemo/immunotherapy and development of stimulus responsive nano-gels for skin regeneration and treatment of hypertrophic scarring and fibrosis. Dr Lavasanifar has 45 peer reviewed published/in press manuscripts in highly ranked journals in pharmaceutical sciences, 5 book chapters, several abstracts and numerous conference presentations. Two of her papers have been recognized as the top three and ten cited paper in Journal of Pharmaceutical Sciences and Journal of Controlled Release, respectively. Afsaneh is also the main editor of a book on “Polymeric Micelles and Related Nano-Delivery Systems” currently under Editorial modifications. Her laboratory holds 4 patents on novel polymer based formulations for drug and siRNA delivery. She has a very dynamic research group with 15 members (5 postdoctoral fellows and 10 graduate students) working on different nano-delivery based projects at the moment. Four PhD students have so far completed their studies in her laboratory. Afsaneh was the recipient of the GlaxoSmithKline/CSPS Early Career Award in 2007. She is also actively involved in teaching of pharmaceutics and drug delivery systems in both undergraduate and graduate levels.

Nano-delivery systems for drug solubilization and targeting: improving drug performance by engineered carriers

Effective clinical performance of many existing and emerging potent therapeutic agents is hampered by their poor water solubility, low bioavailability, non-selectivity for the diseased tissue and appearance of severe side effects. The long term objective of our research is to design and develop drug carriers that can correct the undesired properties of potent therapeutic agents and make them more effective in clinic. Our research group has developed novel polymer based nano-carriers for the solubilization of two potent drugs, cyclosporine A and doxorubicin, and their targeted delivery towards their cellular or intracellular targets. The results of our in vitro and in vivo assessments show positive effect of developed delivery systems on improving the solubility and enhancing the therapeutic index of incorporated drugs.

AFPC-PFIZER RESEARCH CAREER AWARD

Dr. Murray Krahn, MD, MSc, FRCPC, Professor, University of Toronto



Dr. Murray Krahn is the Director of THETA (Toronto Health Economics and Technology Assessment Collaborative), the F. Norman Hughes Chair in Pharmacoeconomics at the Faculty of Pharmacy, Professor in the Faculties of Medicine and Pharmacy, University of Toronto, Senior Scientist the Toronto General Research Institute and Adjunct Scientist at the Institute for Clinical Evaluative Sciences, Toronto. He is also an attending physician in the division of General Internal Medicine at the University Health Network, Toronto. Dr. Krahn's research program focuses on the use of decision analytic methods to examine health policy and health decision-making. His recent research includes the development of clinical policy models, disease-specific utility instruments, and use of large administrative datasets for developing longitudinal cost models. He is also interested in methods that integrate competing scientific paradigms in the evaluation of new drugs and technologies.

Three Scientific Paradigms in Health Technology Assessment

A paradigm is a constellation of beliefs, values, and techniques shared by members of a community (Kuhn- The Structure of Scientific Revolutions). In Ontario, decision making around reimbursement for new drugs and technologies is evolving along three scientific paradigms: i) Evidence Based Medicine; ii) Cost effectiveness; iii) Bioethics- Accountability for Reasonableness. We describe how these paradigms shape both criteria and process of decision making in the Committee to Evaluate Drugs (CED) and the Ontario Health Technology Advisory Committee (OHTAC).

We argue that optimal decision involves integrating concepts from all traditions, involving both distinct decision criteria and decision processes. Integrating these ideas requires judicious tradeoffs between not only efficiency and equity, but also between evidence quality and efficiency/equity.

CANADIAN FOUNDATION FOR PHARMACY-AFPC GRADUATE STUDENT AWARD FOR PHARMACY PRACTICE RESEARCH

Marie Lordkipanidzé, PhD candidate, Faculté de pharmacie, Université de Montréal



Marie Lordkipanidzé has studied pharmacy at the Université de Montréal, in Montréal, Québec. After graduating in 2004, she chose to continue her studies in Pharmaceutical Sciences, under the supervision of Chantal Pharand, PharmD, and Jean G. Diodati, MD. Her work on variability in platelet response to antiplatelet agents has led to several publications on this phenomenon. Her thesis on the subject of aspirin resistance was selected among the best 5 percentiles of Master's theses at the Université de Montréal in 2006. Marie Lordkipanidzé was the recipient of the 2008 GlaxoSmithKline-AFPC Graduate Student Research Award. She currently pursues her PhD training at the Université de Montréal and continues to investigate the efficacy of antiplatelet drugs in human diseases.

Abstract: Comparison of four tests to assess inhibition of platelet function by clopidogrel in stable coronary artery disease patients (European Heart Journal (2008) 29, 2877–2885)

Effective antiplatelet agents are considered mainstay therapy for the prevention of acute ischemic events. Adding clopidogrel to daily aspirin treatment is the basis of antiplatelet therapy in the context of percutaneous coronary interventions, as it reduces the risk of stent thrombosis to approximately 1%. However, important inter-individual variability in platelet response to clopidogrel has been reported, resulting in a significant proportion of patients displaying sub-optimal inhibition of platelet aggregation and an increased risk of thrombotic complications. Recent guidelines suggest intensification of clopidogrel therapy in patients with insufficient platelet inhibition. However, there is currently no consensus on the method to be used for the quantification of platelet function inhibition by clopidogrel. The aim of this study was to investigate the comparability of platelet function tests in quantifying platelet inhibition achieved by clopidogrel.

One hundred and sixteen patients suffering from stable coronary artery disease were recruited prior to diagnostic angiography. They received clopidogrel for 1 to 7 days before the procedure. Blood samples obtained before clopidogrel initiation and before diagnostic coronary angiography were assayed using: light transmission aggregometry (adenosine diphosphate [ADP] 5 and 20 μ M as the agonist), whole blood aggregometry (ADP 5 and 20 μ M), PFA-100[®] (Collagen-ADP cartridge) and VerifyNow[®] P2Y₁₂. While all assays studied were found sensitive to clopidogrel ingestion, none could distinguish categorically between patients who had, or not, ingested clopidogrel. Agreement between assays to identify patients with insufficient inhibition of platelet aggregation by clopidogrel was low. The decision to increase clopidogrel dosage may vary based on the assay used, thus highlighting the need for unambiguous guidelines with respect to assay selection, as platelet function assays are not interchangeable. At present, platelet function testing evaluating clopidogrel efficacy can not be recommended in routine clinical practice.

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POSTER

Abstract Compendium



Posters – Friday, June 5, 2009

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PHARMACY PRACTICE RESEARCH ABSTRACTS

PPR-1. Sun protection behaviors among outdoor recreation workers in Nova Scotia

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Objective: Although skin cancer is the most common cancer in Canada (Canadian Cancer Society, 2008), preventative behaviors and regular screening can dramatically reduce the prevalence and severity of this disease. Based on this reality, the objective of this research was to assess the knowledge, attitudes, and sun protection behaviors among Nova Scotia outdoor recreation workers and highlight educational opportunities for pharmacists that assist young workers. **Method:** Using a Theory of Planned Behavior (Ajzen, 1991) framework, and previously validated surveys, we developed a questionnaire that assessed informational sources about risk factors, attitudes toward sun protection and sun exposure, normative influences (e.g., my fellow lifeguards use sunscreen at work), perceived behavioral control, and intention to use sunscreen. **Results:** Seventy-one of 232 outdoor recreation workers responded to the survey. The age range was from 14 to 33 (M = 19.5). Occupations included lifeguards (62%), sailing instructors (17%), and tennis instructors (12%). Forty-five percent of respondents reported applying sunscreen only when it was sunny outside, very few (10%) of respondents examined their entire body for skin cancer, and a health care professional had never checked 82% for skin cancer. Sun protection behaviors frequently performed while at work included 90% wearing sunglasses, 34% wearing lip balm, and 19% staying in the shade. The majority of sunscreen users (56%) wore a sunscreen with an SPF of 30 -59. SPF was a significant predictor of intention to use sunscreen while at work $R^2 = .166$, $p < .001$ with individuals that use higher SPF being more likely to intend to use sunscreen on a regular basis. We also identified barriers to sunscreen use. **Conclusion:** Our study provided information on specific sun protection behaviors; including rationale for behaviors that were performed inadequately. Pharmacists can use this knowledge as they participate in sun-safety lessons and campaigns, develop and provide educational brochures, assist in sunscreen selection, and provide reminders at the point of purchase.

PPR-2. Self-monitoring of blood glucose: The pharmacist's perspective

*Ingrid Sketris*¹, Pamela R. McLean-Veysey², Dawn M. Frail³, Celeste E. Latter⁴, R. Wayne Putnam⁴, Peggy Dunbar⁵

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Introduction: Evidence to support the use of regular self-monitoring of blood glucose (SMBG) for adults with type 2 diabetes not using insulin is limited. Despite this, Nova Scotia Pharmacare spends over \$6 million/year for SMBG test strips. This study examined health professionals' recommendations for and perceived value of SMBG for adults with type 2 diabetes who are not using insulin and have A1C values ≤ 7 units. **Methods:** One to one interviews were conducted with family physicians, diabetes educators and community pharmacists. Pharmacists were asked about their SMBG recommendations, advice given to patients about abnormal results, trusted sources of information, provision of education for SMBG and their role in patients' selection of SMBG devices. Interviews were audiotaped by permission and participants were provided with an opportunity to review their transcripts for accuracy. All project investigators read the transcripts and contributed to the thematic analysis. **Results:** Seven of the twenty-one health professionals interviewed were pharmacists. Pharmacists recommended SMBG testing ranging from less than once per day up to 4 times a day. SMBG was recommended to provide patient feedback on

the effects of diet, when starting new medications, during illness and at other specified times. Pharmacists discussed their role in selecting and providing instruction on SMBG devices, having clinics with nurses and other roles. Trusted sources of information included guidelines from the Canadian and American Diabetes Associations, Therapeutic Choices, MD Consult, research literature and employer newsletters. **Conclusion:** Pharmacists varied in their SMBG recommendations which could be partly due to the lack of clear evidence to support the practice. Further work is needed to determine how pharmacists' recommendations compare with other health professionals, the role of pharmacists in SMBG and the effect of SMBG practice on patient outcomes.

PPR-3. Benzodiazepine use in prescription monitoring programs: A review of the literature

Judith Fisher¹, Chiranjeev Sanyal¹, Dawn Frail², and *Ingrid Sketris*¹

¹College of Pharmacy, Dalhousie University; and ²Department of Health (NS), Halifax, NS.

Objective: Benzodiazepines are widely used to treat insomnia and anxiety. However, concern has been expressed regarding the over-prescription of these agents, and their potential for misuse and abuse. The purpose of this study was to review the extant literature examining the impact of adding benzodiazepines to a Prescription Monitoring Program (PMP). **Method:** Studies published in English between January 1, 1980 and February 1, 2009 were identified by searching PubMed, EMBASE and Web of Science using search terms: benzodiazepines; triplicate prescription program; prescription monitoring program; triplicate prescribing; and triplicate prescription policy. The identified articles were reviewed for relevance. Additional papers were identified from references cited in these articles. **Results:** This search strategy identified 18 relevant papers, representing 15 unique studies. All of these articles addressed the impact of adding benzodiazepines to a PMP in New York State in 1989. All studies were retrospective and compared prevalence of benzodiazepine prescribing before and after implementation. Two studies included data from New Jersey, a neighbouring state with no benzodiazepine monitoring program, for the same period. Each study demonstrated an overall decrease in prevalence of benzodiazepine prescribing in the period following implementation of the PMP. However, the findings suggested that decline in use was not consistent across population groups. For example, in one study, the greatest decline was among those with seizure disorders. The findings of three studies demonstrated an increase in the prevalence of non-benzodiazepine sedative-hypnotic use corresponding to the decline in benzodiazepine use. There were no published studies that examined benzodiazepine use after the mid-1990s. **Conclusions:** Taken together, the reviewed studies support the contention that adding benzodiazepines to a PMP decreases overall use of these medications. The findings also suggest that implementation of such a program may have unintended consequences that may differentially impact certain populations. Further research is warranted to better understand the relative costs and benefits, in particular in the long-term.

BASIC SCIENCE RESEARCH ABSTRACTS

BSR-1. Tumor apoptosis after STAT3 knockdown by nano-sized siRNA complexes

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¹Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, ²Department of Chemical and Material Engineering, University of Alberta

Objective: Hyperactive signal transducer and activator of transcription 3 (STAT3) has been shown to impart several oncogenic properties in many solid and blood tumors. In this study, we investigated the potential of polyethylenimine (PEI) modified with stearic acid (StA) to deliver siRNA in order to achieve STAT3 downregulation in B16 murine melanoma cells. **Methods:** B16 cells were targeted with a dose range of siRNA complexes (6.25 to 200 nM) for 36 h and STAT3 was detected by Western blot. Concomitantly, levels of IL-6 and VEGF were determined by ELISA, while tumor cell death was assessed by the MTT assay. Caspase 3 activity was measured as an indicator of apoptosis after treatment of B16 with 50 nM siRNA. Our **results** showed that PEI-StA complexes to have higher association with B16 cells and higher potency of STAT3 silencing as compared to PEI complexes. STAT3 knockdown was accompanied by a significant induction of IL-6 secretion and a reduction of VEGF secretion. Moreover, with PEI-StA, Caspase 3 activity in B16 was found to be 2.5 times higher than that of PEI complexes. Consistently, the calculated LD₅₀ of PEI-StA complexes was 60% lower than that for the PEI complexes. In contrast, there was no noticeable cytotoxicity with up to 200 nM complexes of scrambled siRNA using both polymers. When 50 nM of siRNA complexes was given on a daily basis to B16 cells, cancer cell viability was dramatically reduced after the third dose with PEI-StA complexes reaching only 10% compared to 90% viability observed with PEI complexes at the same dosing period. **Conclusions:** Taken together, we suggest that STAT3 is essential for cancer cell survival and downregulation of STAT3 by siRNA provides a potential therapeutic strategy for cancer treatment. Moreover, chemical attachment of StA to PEI backbone enhances siRNA silencing. CIHR is acknowledged for funding this project.

† Dedicated to the memory of Dr. John Samuel, who initiated a research program encompassing the present study.

BSR-2. A randomized, double-blinded, placebo-controlled study evaluating the efficacy and safety of nabilone as an adjunctive to gabapentin in managing multiple sclerosis-induced neuropathic pain: An interim analysis.

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Aims: To determine if nabilone is effective in alleviating symptoms associated with multiple sclerosis (MS) - induced neuropathic pain (NPP) when used as adjunctive treatment to gabapentin. **Methods:** A randomized, double-blind, parallel, placebo-controlled study involving 25 patients diagnosed with MS-induced NPP was initiated using nabilone as an adjunctive therapy to gabapentin. Eligible participants previously stabilized on ≥ 1800 mg/day of gabapentin received an oral upward titration of nabilone or matched placebo over 4 weeks, to a target dose of 1 mg twice daily which they continued for 5 additional weeks. Baseline pain evaluations *prior* to nabilone initiation were comparatively assessed to those at weeks 4 and 9 *post*-nabilone treatment. Outcome measures include the visual analogue scale (VAS), the Short-Form McGill Pain Questionnaire, Short-Form 36 Health Survey, and the Patient-Rated Global Impression of Change. **Results:** Nabilone treatment resulted in an average VAS point reduction of -4.25 at target dose. An average of 2.75 adverse events were noted in the nabilone group. Dizziness & dry mouth were the most frequently reported (75%), followed by drowsiness (50%) and nausea (25%). No

patients discontinued treatment due to adverse events. **Conclusion:** Interim results suggest nabilone as an effective, tolerable adjunctive treatment for MS-induced NPP.

BSR-3. Molecular mechanism of neuroprotection mediated by immunophilin ligands.

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Objective: The immunosuppressive agents cyclosporin A and FK-506 have been shown to exhibit neurotrophic and neuroprotective properties *in vivo*. Given that significant clinical expertise exists for both drugs, they represent an attractive starting point for treatment of acute neural injuries. One putative mechanism for neuroprotection relates to calcineurin inhibition. However each drug-immunophilin complex can potentially influence additional signal transduction pathways. Furthermore, several nonimmunosuppressive immunophilin ligands were proposed to possess neuroprotective properties, suggesting that neuroprotection may be separable from calcineurin inhibition. In the present study, we examined the mechanism of this neuroprotection in facial motor neurons following axotomy-induced injury. **Methods:** Facial nerve axotomy was utilized as a model of acute motor neuron injury. We first recapitulated the neuroprotective properties of immunophilin ligands using this model. To examine the mechanism responsible for neuroprotection by these agents, pharmacologic inhibitors of several potential alternate signaling pathways (17-AAG, rapamycin, cypermethrin) were evaluated for their neuroprotective potentials. **Results:** Similar to previous studies in rat, cyclosporin A and FK-506 enhanced motor neuron survival in mice following acute injury. Of the pharmacologic inhibitors examined, only cypermethrin, a direct calcineurin inhibitor not previously associated with neuronal survival properties, was observed to significantly enhance motor neuron survival. We further demonstrated that inhibition of calcineurin functionally alters PCD signaling by maintaining the phosphorylation status of Bcl-2 family protein Bad. **Conclusions:** The results demonstrate for the first time that direct inhibition of calcineurin is neuroprotective *in vivo*. Altogether, these data support a model in which calcineurin inhibition promotes neuronal survival, distinct from effects upon neurite outgrowth.

BSR-4. The role of CMKLR1 in the differentiation and function of C2C12 myoblasts

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Introduction and Objective: White adipose tissue (WAT) plays a key role in the regulation of energy balance through energy storage/mobilization and the secretion of biologically active factors called adipokines (e.g. leptin and adiponectin). Adipokines function through a combination of autocrine and paracrine actions in fat and endocrine actions within the brain, liver and skeletal muscle to regulate insulin sensitivity, blood glucose and lipid levels, feeding and satiety. We identified a novel adipokine chemerin, which regulates the differentiation and metabolic function of adipocytes via signaling through the chemokine like receptor 1 (CMKLR1). We recently discovered that *CMKLR1* is expressed in mouse skeletal muscle but the function of the receptor in this tissue is unknown. The objective of the present study was to determine if chemerin signaling through CMKLR1 affects the differentiation and metabolic function of skeletal muscle precursor cells (myoblasts). **Methods and Results:** In the present study we show that *CMKLR1* mRNA is expressed in mouse skeletal muscle. In C2C12 mouse myoblasts, the expression of *CMKLR1* increases 3-fold with the differentiation of those cells into multinucleated myotubules. Consistent with the mRNA expression, immunodetectable CMKLR1 is present in the myotubules. Abolishing *CMKLR1* expression using adenoviral-delivered shRNA impairs the differentiation of C2C12 myoblasts into mature myotubules as determined by microscopic analysis of

phalloidin-stained cells. The impairment of myogenesis by CMKLR1 knockdown involves the inhibition of the expression of muscle specific transcription factors myogenin and myoD. **Conclusion:** We conclude that CMKLR1 signaling is active in skeletal muscle cells and that this pathway acts as a positive regulator of myogenesis. This work was supported by operating grants from CIHR, NSHRF, PEF and DMRF.

BSR-5. Polymeric Binders: a new approach for the «control» of celiac disease

*Maud Pinier*¹, Elena F. Verdu⁴, Mohamad Nasser-Eddine¹,

Chella S. David³, Anne Vézina², Nathalie Rivard² and Jean-Christophe Leroux^{1*}

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Background & Aims: Celiac disease is a prevalent autoimmune disorder caused by ingestion of gluten-containing grains. Polymeric binders were investigated for their potential to reverse the toxic effects induced by gliadin, the subfraction of gluten triggering the disease. **Methods:** Gliadin was neutralized by complexation to a copolymer of hydroxyethylmethacrylate (HEMA) and sodium 4-styrene sulfonate (SS). The polymer P(HEMA-co-SS) was found to sequester gliadin at both gastric and intestinal pHs in a relatively specific manner. The binder's ability to abolish gliadin's effect was first assessed on IEC-6 and Caco-2/15 intestinal cell lines and on primary cultures of human differentiated enterocytes. The efficacy of the polymeric binder in preventing gliadin-induced intestinal barrier dysfunction was assessed using gliadin-sensitive HLA-HCD4/DQ8 transgenic mice. **Results:** P(HEMA-co-SS) complexed with gliadin in a relatively specific fashion. Treatment of intestinal epithelial exposed to gliadin triggered profound alterations in cell morphology and cell-cell contacts. These changes were all inhibited by complexing the protein with P(HEMA-co-SS). More importantly, the copolymer hindered gliadin digestion by gastrointestinal enzymes, thus minimizing the formation of immunogenic peptides. Intra-gastric administration of P(HEMA-co-SS) together with gliadin to gluten-sensitive HLA-HCD4/DQ8 mice was able to reverse gliadin-induced changes in intestinal barrier and to reduce intraepithelial lymphocyte and macrophage cell counts. **Conclusion:** Polymeric binders can prevent *in vitro* gliadin-induced epithelial toxicity and intestinal barrier dysfunction in HCD4/DQ8 mice. They have a potential role in the treatment of patients with gluten-induced disorders.

BSR-6. Solubilizers for Biopharmaceutical Studies with Respiratory Epithelial Cells: a Focus on Selection Based on Limited Epithelial Perturbation

Remigius U Agu, Wendy J. Lyzenga

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Background: Approximately three-quarters of new drug candidates are either insoluble or very poorly water soluble. These compounds pose enormous challenges during preformulation and preclinical screening stages. Their limited aqueous solubility compromise sink conditions during transport studies with epithelial cells and adsorb non-specifically to tissue culture plates. This often leads to inaccurate estimation of permeability. Solubilizers used to improve the solubility of test compounds during preformulation may affect cell physiology including absorption characteristics, mechanisms of absorption, efflux characteristics, epithelial integrity and morphology. **Objectives:** The aim of this study was to test the hypothesis that a certain concentration range exists within which to use selected solubility enhancers for *in vitro* biopharmaceutical studies with Calu-3 cells without epithelial damage. **Methods:** The effect of commonly used solubilizers {(N, N-Dimethylacetamide (NND), Polyethylene glycol 400 (PEG 400), Methyl-Pyrrolidone/aromatic hydrocarbon (MPH), Cremophor EL and Dimethylsulfoxide

(DMSO) on Calu-3 cells was investigated. LDH, MTT, TEER measurement, paracellular marker permeation and confocal microscopic methods were used to screen cell perturbation. **Results:** The level of mitochondrial dehydrogenase activity (MDH) was comparable for cells incubated with DMSO and Cremophor EL. DMSO, up to 8% had no significant effect on MDH activity ($p>0.05$, $n=3$). Similarly, 1-8% Cremophor did not significantly affect the MDH activity ($p>0.05$, $n=3$). However, both DMSO and Cremophor EL at concentrations higher than 8% significantly reduced MDH activity ($p<0.05$). Unlike DMSO and Cremophor, much lower concentrations of PEG 400 had detrimental effect on the cells. Among the five compounds that were investigated, MPH and NND significantly reduced MDH activity at concentrations lower than 0.5%. Comparable results were obtained with respect to the tested compounds for TEER, LDH, sodium fluorescein permeation and confocal microscopy studies. **Conclusions:** From a toxicity perspective, this study showed that NND and MPH are not ideal as solubilizers for Biopharmaceutical studies with Calu-3 cells. However, Cremophor EL, PEG 400 and DMSO may be used at concentrations $\leq 5\%$.

BSR-7. Assessment of the Bitter Taste of Epinephrine and the Masking Effects of Non-Medicinal Ingredients: Role of an Electronic Tongue.

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Objectives: An epinephrine (E) tablet is under development for sublingual (SL) administration for the first-aid treatment of anaphylaxis (Biopharm Drug Dispos 2006;27(9):427-435). The inherent bitterness of E may hinder patient acceptability, especially in children. Our objective was to assess the degree of E bitterness and predict the masking effect of sweetening and flavoring non-medicinal ingredients (NMIs) using an electronic tongue (e-Tongue). **Methods:** An e-Tongue (Alpha MOS, France) equipped with a 7-sensor array designed for bitterness prediction was used. Sensors were conditioned, calibrated, and tested for taste discrimination. A bitterness model was built and validated using 6 standard active pharmaceutical ingredients (APIs) each at two different concentrations. Results were compared with standardized measurements provided by Alpha MOS from human sensory panels. The bitterness model was used to assess three E solutions of 0.3, 3, and 9 mM. Taste masking efficiency of aspartame (ASP), acesulfame potassium (ASK), and citric acid (CA) each at 0.5 mM was evaluated. Data were analyzed using the bitterness prediction module software provided by Alpha MOS. **Results:** All 7 sensors of the e-Tongue passed the conditioning, calibration, and taste discrimination tests. A bitterness model was successfully built and validated using the 6 standard APIs. The bitterness score of 9 mM E was 20 (in a bitterness scale of 1 to 20). It was masked by 13.7%, 29.7%, and 54.2% after adding ASK, ASP, and both ASK and ASP, respectively. The addition of all NMIs (ASK, ASP, and CA) resulted in a masking effect of 64.9%. CA alone was able to mask the bitterness of E by more than 80%. **Conclusion:** The incorporation of sweetening and/or flavoring NMIs into a SL tablet formulation of E masked its bitter taste by up to 80%. The e-Tongue is a potential analytical tool to assess the masking effect of NMIs on the bitterness of APIs.

BSR-8. Cladribine inhibits the effect of diltiazem to increase RBC concentrations of ATP in a zebrafish model

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Purpose: To study the effect of cladribine (CdA) on the cardiovascular effects of diltiazem (DTZ) using a zebrafish model. **Methods:** Zebrafish (*Danio rerio*) weighing approximately 1 g were used and they were housed in the Aquatic Laboratory in the IWK Health Centre. Zebrafish were divided into 4 groups (n = 6 – 10 in each group). They were each given saline, DTZ (5 mg/kg), or a combination of DTZ (5 mg/kg) and CdA (1, 2, or 5 mg/kg) twice daily for 3 doses by peritoneal (ip) injection. Blood samples (1 – 5 uL) were collected at 1 hr after the last injection for measurement of ATP and other purine nucleotides by a validated HPLC assay. Data between groups were compared by ANOVA and difference considered significance when $p < 0.05$. **Results:** DTZ increased RBC concentrations of ATP, ADP, AMP, GTP and GDP, although only the increase of the adenine nucleotides reached statistical significance ($p < 0.05$). Cladribine inhibits the cardiovascular effects of DTZ to increase adenine nucleotide concentrations at the 1 mg/kg dose ($p < 0.05$). The inhibitory effect was not further increased when dose was increased to 2 or 5 mg/kg of cladribine (Table 1). **Conclusion:** DTZ increased RBC concentrations of adenine nucleotides (ATP, ADP and AMP) at a therapeutic dose in zebrafish model *in vivo*. The cardiovascular effects were inhibited by cladribine at low dose (Supported in part by a NSHRF Innovation Grant and a IWK Health Center Summer Studentship to Lauren Klein-Rygier)

Table 1. Effect of DTZ and CdA on RBC concentrations of purine nucleotides in zebrafish

Treatment	ATP (mM)	ADP (mM)	AMP (mM)	GTP (mM)
Control	0.48 ± 0.22	0.14 ± 0.072	0.043 ± 0.019	0.16 ± 0.093
DTZ (5 mg/kg)	0.75 ± 0.24*	0.32 ± 0.10*	0.093 ± 0.047*	0.20 ± 0.071
DTZ + CdA (1 mg/kg)	0.31 ± 0.16**	0.062 ± 0.049**	0.048 ± 0.0086**	0.070 ± 0.080
DTZ + CdA (2 mg/kg)	0.32 ± 0.082**	0.073 ± 0.025**	0.027 ± 0.0098**	0.12 ± 0.039
DTZ + CdA (5 mg/kg)	0.40 ± 0.17**	0.14 ± 0.039**	0.067 ± 0.030	0.056 ± 0.028**

* $p < 0.05$ vs control, ** $p < 0.05$ vs DTZ

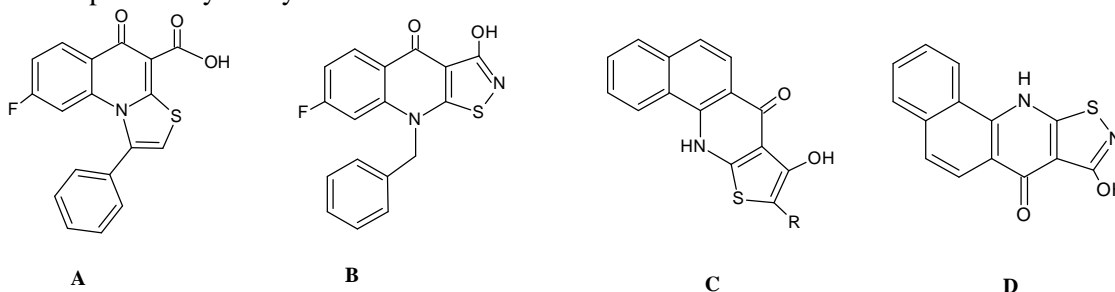
BSR-9. Design and syntheses of benzoquinolines as potential topoisomerase inhibitors

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Study Objectives: Based on the previously reported topoisomerase-II inhibitory and antineoplastic activity profile of thiazoloquinolonecarboxylic acid derivative [A], and by the application of structure-based molecular modeling, 3-hydroxy-7-fluoro-4,9-dihydrothieno-[2,3-*b*]quinolin-4-one (compound B) was designed, synthesized and evaluated for in vitro cytotoxicity against several solid and leukemic cell lines. The encouraging results from this study prompted us to explore the possibility of further structural modifications in this class of compounds. In this respect, we designed and synthesized compounds C and D series, the details of which are presented in this poster.

Methods: Two classes of substituted thieno[2,3-*b*]benzoquinolone derivatives were successfully synthesized as potential DNA topoisomerase I and II inhibitors via modified Gould-Jacobs reaction and Grey-Heitzer method. The cytotoxic properties of the synthesized compounds were evaluated using Brine-Shrimp Lethality Assay method.



Results: Preparation of compound C was achieved by either conventional synthesis of the relevant 2-mercaptobenzoquinolone carboxylic acid followed by cyclization or through convergent synthesis starting with appropriate naphthoylacetate intermediate and further cyclization. The synthesized compounds were evaluated for their cytotoxic activity. In order to study the effect of different substituents (R=COOEt, CN, CONHOH) on the overall Topo-II inhibitory and cytotoxic activities of this class of compounds, several new analogues of structures C&D were synthesized and evaluated for the targeted activities.

Conclusion: Our structure-based design approach for synthesizing novel tetracyclic quinolines with potential topoisomerase I and II inhibitory activity has successfully resulted in two classes of thieno[2,3-*b*]benzoquinolone derivatives (linear and angular). Both classes of compounds exhibited cytotoxic effects in a Brine-Shrimp Lethality Assay. Further studies on structural optimization of both classes of compounds is ongoing in our laboratory.

BSR-10. Pharmacokinetics and hemodynamic effects of amlodipine in a rat model following repeated subcutaneous injections *in vivo*.

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Purpose: To determine the pharmacokinetics and hemodynamic effect of amlodipine in a rat model following repeated subcutaneous injection. **Methods:** Male SD rats (Charles River Laboratories, n = 8 – 12 per group) weighing between 300 - 450 g were used. Each rat received either saline (control) or 5 mg/kg of losartan s.c. twice daily for 5 doses (Merck & Co., West Point, PA, USA). Hemodynamic measurements were recorded continuously for each animal before and following treatment for up to 6 h. Plasma concentrations of amlodipine were determined by a previously published HPLC. **Results:** The SBP, DBP, and HR in control SD rats were 130 ± 14 mmHg, 103 ± 17 mmHg, and 462 ± 30 bpm. Amlodipine significantly decreased the SBP to 101 ± 9 mmHg (-22%), and DBP to 74 ± 9 mmHg (-28%) (p < 0.05), but the effect on HR was minimal (-6%) (p > 0.05). Maximum hemodynamic effects were observed at 1.5 hrs after the injection. Plasma concentrations of amlodipine before the last dose were 0.11 ± 0.06 ug/ml. The apparent C_{max} and t_{max} of amlodipine were 0.47 ± 0.17 ug/ml and 0.53 ± 0.38 hr, respectively. **Conclusion:** Amlodipine significantly decreased SBP and DBP, but not HR after repeated 5mg/kg subcutaneous injections. The hemodynamic effects were mainly attributed to the parent drug amlodipine (Supported in part by a grant-in-aid from CIHR/NSHRF/PEF Regional Partnership Program).

BSR-11. siRNA-induced down-regulation of matrix metalloproteinase-25 inhibits palatal fusion during mouse secondary palate development.

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Objectives: To determine the spatial and temporal expression pattern of matrix metalloproteinase-25 (Mmp-25) in mouse secondary palate (SP) formation; to determine if Mmp-25 has a functional role in mouse SP formation; to begin to describe the transcriptional regulation of Mmp-25 in the mouse SP. **Methods:** To determine the spatial and temporal expression of Mmp-25 in mouse SP formation we used real-time quantitative PCR (qPCR), western blot analysis and immunohistochemical staining from embryonic day (E) 12.0 to E15.5, which is the window of development for the SP in mice. To determine if Mmp-25 has a functional role in mouse SP formation we used *in vitro* palatal cultures incubated with Mmp-25-specific siRNA to knockdown Mmp-25 gene expression. To begin to describe the transcriptional regulation of Mmp-25 in the mouse SP a TGFβ3-neutralizing antibody was added to the *in vitro* palatal cultures. **Results:** Mmp-25 mRNA and protein are expressed in the mouse SP with highest expression at E13.0 followed by a significant down-regulation by E15.0. Immunofluorescence analysis indicates Mmp-25 protein is found in the epithelium of the palatal shelves and apical mesenchyme underlying the epithelium. *In vitro* palatal cultures treated with Mmp-25-specific siRNA exhibit a significant reduction in shelf fusion and persistence of the midline epithelium seam. On a scaling standard for palate shelf fusion the scores for wild-type, scrambled control siRNA and Mmp-25-specific siRNA were 4.14, 4.13 and 2.50 respectively where 1 indicates no contact and 5 indicates complete fusion. Mmp-25 mRNA and protein expression is significantly decreased in *in vitro* palatal cultures treated with 5 µg/ml of a TGFβ3-neutralizing antibody. **Conclusions:** Mmp-25 mRNA and protein is expressed in the mouse SP at all developmental stages and has a direct, functional role in mouse SP formation. Mmp-25 gene expression is downstream of the growth factor TGFβ3. Our results are the first to demonstrate a direct functional role for a single matrix metalloproteinase in mouse SP development.

BSR-12. Expression, localization and activity of organic cation transporters in human nasal epithelium

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Background: Most drugs cross epithelial cells either by passive diffusion or via carrier-mediated drug transporters. Not much is known about the expression, functional regulation, and factors affecting carrier-mediated drug transport in human nasal epithelium. Alterations in drug transporter characteristics and expression may affect drug disposition and therapeutic response. **Objectives:** Based on the potential of organic cation transports (OCT) to be targeted for drug delivery; we investigated the expression and localization of the transporters in human nasal epithelial cells. **Methods:** Nasal epithelial cells were extracted from tissues obtained from patients that underwent endoscopic trans-nasal skull laser surgery. The expression, localization and drug uptake characteristics of the transporters were investigated using drug permeation (uptake of 4-Di-ASP) and molecular biology (reverse transcriptase polymerase chain reaction, immuno-histochemistry, confocal microscopy) methods. **Results:** Gene transcripts for OCT1, OCT3, OCTN1 and OCTN2 were successfully obtained by PCR from RNA extracted from the human nasal epithelial cells. Immunohistological studies displayed staining of OCT3, OCTN1 and OCTN2 antibodies in the nasal tissue specimens. The antibodies were localized on the apical side of ciliated epithelial cells. Uptake of 4-Di-ASP was temperature (37 vs. 4°C) and direction-dependent (apical→basolateral vs. basolateral →apical). Uptake was inhibited by both classical organic cation transporter and organic cation/carnitine transporter substrates (verapamil, tetraethyl ammonium). **Conclusions:** The RT-PCR, immunohistochemical and uptake data suggest that OCT 1, OCT 3, and OCTN1 and OCTN2 are endogenously expressed in the human nasal epithelium. Although the physiological roles of the transporters in the epithelium is yet to be elucidated, their localization on the apical side of ciliated epithelial cells supports the idea and potential of these transporters for targeted drug delivery.

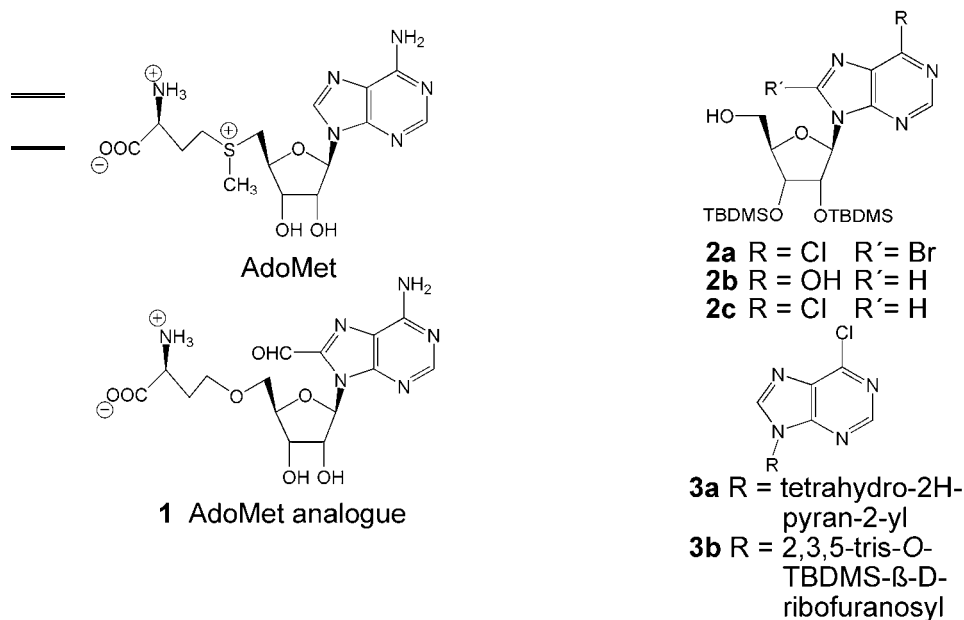
BSR-13. Synthesis of novel C8-substituted purine derivatives and their connection to PRMT6: a search for anti-HIV molecules

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Background: The human enzyme protein arginine *N*-methyltransferase 6 (PRMT6) plays a key regulatory role in signal transduction, transcription, and protein interactions, including inhibition of HIV-1 gene transcription via methylation of the HIV-1 Tat protein. Its active site is well-defined due to its strong homology with the characterized PRMT1. Of particular interest, the PRMT6 active site has a conserved Met residue positioned in close proximity to the purine C-8 of *S*-adenosyl-L-methionine (AdoMet), a substrate. This suggests that the C-8 CHO function in the proposed analogue **1** can be induced with cyanide to react with the nucleophilic side chain in the active mutants of PRMT6 Met 166 Lys, Ser, and Cys produced in Dr. Frankel's laboratory. The formation of this covalent bond is the first step in a "fragment-based" approach to generate a specific inhibitor of PRMT6, leading to possible drug candidates targeting HIV latency. **Methods:** The chlororiboside **2a** was selected as the starting material to avoid a competing intramolecular reaction during the formation of the C-5' ether linkage in **1**. The three crucial synthetic operations are 1) the creation of the C-5' ether; 2) the C6-amination without concomitant reaction at C-8; and 3) synthesis of a C-8 aldehyde from a C-8 Br atom under Pd(0)

catalysis conditions. Products were identified by NMR or mass spectroscopy. **Results:** For the ether synthesis, model studies with **2b** yielded dialkylation, while monoalkylation of **2c** remains difficult to optimize. The C-6 Cl atom on the model compound **3a** and the fully protected chlororiboside **3b** was aminated in good yield. The C-8 bromination of **3a** and **3b** was also achieved. **Conclusions:** Several key synthetic reactions were characterized by exploratory work toward the AdoMet analogue and on model compounds. In addition, the C6-amination on **3a** and **3b** using the weak base Cs_2CO_3 and CF_3CONH_2 is a promising reaction that could lead to a generalized methodology on purine amination.



BSR-14. Serum and adipocyte chemerin levels are regulated by $\text{TNF}\alpha$ and are elevated in obesity.

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Objective: White adipose tissue (WAT) is an endocrine organ that secretes a number of biologically active molecules (adipokines) including leptin, adiponectin, interleukin-6 (IL-6) and tumour necrosis factor α ($\text{TNF}\alpha$). In obesity, increased WAT secretion of inflammatory mediators (IL-6 and $\text{TNF}\alpha$) contributes to local and systemic inflammation, a precursor to vascular dysfunction and insulin resistance. Chemerin is a novel adipokine with roles in inflammation and metabolism. In humans, serum chemerin levels modestly correlate with body fat and markers of metabolic syndrome suggesting a role for chemerin in obesity related diseases. However, little is known regarding the regulation of chemerin secretion from WAT. The objective of this study is to investigate whether $\text{TNF}\alpha$, which is increased in obese WAT, regulates secretion of chemerin from adipocytes. **Methods and Results:** 24 hour treatment of 3T3-L1 mouse adipocytes with varying concentrations of $\text{TNF}\alpha$ produced a dose- and time-dependent increase in chemerin mRNA expression, measured by quantitative PCR. In a similar fashion, $\text{TNF}\alpha$ increased adipocyte secretion of biologically active chemerin as identified by cell-based reporter assays. To determine if there was a corresponding response *in vivo*, wild type or $\text{TNF}\alpha$ receptor knockout mice

were treated with 0.5 µg of TNFα, or an equivalent volume of vehicle. Blood serum chemerin levels were elevated 12-24 hours following TNFα injections in wild type but not the TNFα receptor deficient mice. In agreement with these findings, the leptin-deficient and leptin-receptor deficient mouse models of obesity, which demonstrate elevated WAT expression of TNFα, had corresponding elevated circulating chemerin levels. **Conclusions:** TNFα potently regulates chemerin secretion from adipocytes *in vitro* and circulating chemerin *in vivo* via a TNFα receptor specific mechanism. Given that chemerin has pro-inflammatory properties, TNFα-induced secretion of chemerin may contribute to the chronic-low-grade inflammatory state in obese individuals. **Funding:** NSHRF, CIHR, DMRF, DPEF.

BSR-15. Genetic factors affecting the *in vitro* metabolism of the pure antiestrogen fulvestrant (Faslodex®)

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Introduction: The pure steroidal antiestrogen fulvestrant (Faslodex®) is an antagonist of the estrogen receptor (ER) with no agonist effects. Indeed, this drug blocks the ER ligand-binding as well as the ER-mediated downstream signalling, which indicates that fulvestrant might overcome resistance driven by the agonist properties of other antiestrogens. It is actually used for treatment of locally advanced or metastatic hormonal-dependent breast cancer in postmenopausal women, representing a possible option after failure to response to aromatase inhibitors. An advantage over other endocrine therapies is its administration once a month, intramuscularly. However, although it is well tolerated, intersubject variability in fulvestrant plasma levels has been noted during the first 28 days of treatment as well as in the delay to reach a steady state. This variability may limit the benefits of fulvestrant treatment, especially at short-term. Fulvestrant is reported to be inactivated by UDP-glucuronosyltransferases (UGTs) into fulvestrant-glucuronide (fulvestrant-G); the UGT isoenzymes involved are primarily UGT1A3 and UGT1A4. **Objective:** In this study, we sought to determine the influence of common genetic variations upon the metabolism of fulvestrant *in vitro*. **Methods:** Using a heterologous expression system, we analyzed the fulvestrant-G formation by human UGT1A3, UGT1A4 and six of their coding variants commonly found in the Caucasian population. The fulvestrant-G was detected by liquid chromatography-tandem mass spectrometry. **Results:** Compared to the UGT1A4 reference protein *1 (R¹¹P²⁴L⁴⁸), the *2 (T²⁴) allozyme had a significantly lower V_{max}, whereas *3 (V⁴⁸) and *4 (W¹¹) had similar affinity and V_{max}. In contrast, the UGT1A3*2 (R¹¹A⁴⁷) and *3 (R¹¹) variants did not demonstrate any difference in intrinsic clearance (V_{max}/K_m) when compared to the reference protein *1 (W¹¹V⁴⁷M²⁷⁰). However, UGT1A3*6 (R¹¹A⁴⁷V²⁷⁰) had a 900-fold lower intrinsic clearance as a result of a significantly altered affinity and capacity. **Conclusion:** Additional studies are required to assess the clinical relevance of these low activity alleles (UGT1A4*2 and UGT1A3*6), present in 7 and 2 % of the population, respectively.

EDUCATION AND TEACHING ABSTRACTS

ET-1. Increasing practical experiential training capacity: the design of a student pharmacist clinical teaching unit.

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Background: Requests for student pharmacist experiential placements have been increasing both in number and length. New models for experiential education are needed to increase capacity without compromising patient care or education quality. We propose a model which incorporated peer assisted learning and a student to preceptor ratio higher than the traditional 1:1. **Objectives:** To increase hospital training capacity of student pharmacists through the creation of a student pharmacist clinical teaching unit (CTU), where students mentor one another in the provision of direct patient care. Other objectives include providing a quality educational experience for students, preceptors and other health professionals, without compromising the level of pharmaceutical care delivered to patients. **Methods:** The CTU was designed to accommodate 6 final-year students, each for a 9-week rotation. Students started at staggered times to provide continuous student coverage on the unit, and allowed the more experienced students to mentor the newer students. Students cared for individually assigned patients and participated in peer assisted learning by reviewing the care plans, chart notes and answers to drug information questions of their peers. Daily pharmacy team rounds allowed students to present their patients and care plans to the CTU pharmacy team. Three pharmacists rotated precepting activities in 3-week blocks as per the usual pharmacist schedule and jointly completed student evaluations. **Results:** Outcome measures include: number of student placements; student, preceptor, patient and other health professional satisfaction with the CTU; and participant workload. Data collection, including surveys, focus groups, and workload statistics from students and preceptors, is currently underway. **Conclusion:** Preliminary results suggest that by increasing the student to preceptor ratio and utilizing peer assisted learning, the development of a student pharmacist CTU increases clinical training capacity while enhancing the quality of the educational experience for students and staff, and expanding the level of pharmaceutical care for patients.

ET-2. Experiential rotations at family health teams – perspectives of students, preceptors, and other team members.

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¹University of Toronto, Toronto, ²Elisabeth Bruyere Research Institute, Ottawa

Objectives: In Ontario the establishment of family health teams (FHTs) support inter-professional team-based primary care practice. These sites provide valuable teaching settings for students. In 2006/07, fourth year University of Toronto pharmacy students were placed at FHTs for the first time, under preceptorship of pharmacists. We explored the learning by, and experiences of these students to enable improvement in future FHT rotations. **Methods:** With ethics approval and consent, fifteen semi-structured individual interviews with students (5), preceptors (5), and a health care professional from each site (2 MD, 2 RN, 1 Dietitian) were conducted following end of term. Interviews took place at a site convenient to the interviewee, and were audiotaped and transcribed. Investigators used immersion and crystallization to identify codes and descriptive analysis to determine process and content themes. NVivo software facilitated transcript coding and summation. **Results:** Thirteen one-on-one and two telephone interviews were conducted (ranging on average of 40 minutes). Key challenges experienced by students were: i. learning to document extensively in charts, ii. conducting comprehensive interviews, especially with gathering information, and iii. adjusting to a steep learning curve due to the complexity of patients.

Students that were open-minded, flexible, motivated and communicated well with others fit in better with the team. Previous pharmacy experience also helped during the rotation. The role of the student was viewed differently between the preceptor and other health care providers. The environment of the FHT was also a factor in the student's role at the site. **Conclusions:** FHT rotations provide practical exposure to students on how pharmacists can shape primary care practice. The results provide insight on how to: a) prepare students within the formal curriculum for these new placements; b) integrate activities into the rotation and c) identify criteria for selecting students for FHT placements. Acknowledgement: portions of this work were previously presented to Family Health Team conference for Pharmacists, June 23, 2008.

ET-3. A Review of the Psychometric Evidence for the Use of Admissions Interviews in Health Professional Degree Programs

Linda MacKeigan, Andrea Cameron, Nedzad Pojskic, Lalitha Raman-Wilms
Leslie Dan Faculty of Pharmacy, University of Toronto

Objective: To determine whether the use of interviews to assess nonacademic attributes leads to better selection of applicants to health professional degree programs. **Methods:** Five electronic databases, 4 pharmacy and medical education journals, and reference lists from review articles and studies meeting inclusion criteria were searched from 1980 to 2008. Inclusion criteria were: interview used to select students for health professional, entry level degree program; reliability and/or validity assessed; published 1980 or later; English language. Exclusion criteria were: inadequate description of interview; interview score included assessment of academic performance; abstract, letter to the editor, or research brief; group interview. One team member screened articles on the basis of title or abstract, seeking confirmation from the lead author as needed. Two team members reviewed retrieved articles, obtaining consensus on inclusion and data extraction. Results: The database search yielded 2078 citations, 40 of which met selection criteria. Another 26 eligible studies were obtained from the secondary search. Overall, 4 studies were in pharmacy, 41 in medicine, 8 in dentistry, 6 in physical therapy, and 7 in other professions. Most reported one interview per applicant (56%); 50% used a panel interview format; 9% used multiple mini-interviews. Standardized questions (36%) and behaviorally anchored rating scales (20%) were not common. Validity, predictive (n=45) and/or construct (n=11), was assessed in 55 studies; 38 studies assessed reliability, usually interrater. Only 24% of the reliability studies reported coefficients above 0.75. Validity coefficients were modest (median correlation with an appropriate criterion was 0.24). Only 6 studies reported the incremental prediction in academic performance from adding interview scores to traditional admissions criteria; variance added was 3-7%. **Conclusions:** Most research on admissions interviews has been done in medicine and little in pharmacy. The array of interview structures and criterion measures assessed makes it difficult to draw firm conclusions regarding how much interviews enhance student selection. The reliability and validity of structured interviews, particularly multiple mini-interviews, appears superior.

ET-4. Asthma Project: Exploring students' roles in practice change

Lisa M Guirguis

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Objective: Asthma affects 8.4% of the population. Research has shown that pharmacists' services can improve the health of patients with asthma. Despite encouraging evidence and models for pharmacists' practice, many pharmacists have not implemented new programs and interventions into routine care. To address this need, an elective pharmacy option (The Asthma Project) was offered to pharmacy students in their final year. Planning templates were created to help pharmacy students to learn how to plan and implement a new asthma service in a community pharmacy setting. This research aims to explore pharmacist preceptor and pharmacy students' perceptions and experiences with the Asthma Project. **Methods:** Qualitative methods will be used to examine pharmacy preceptors and pharmacy students' perceptions and experiences with the asthma project. Data for this project was compiled from three sources: 1) completed asthma projects, 2) course materials including the course manual and communications between pharmacy students and the course coordinators, and 3) telephone interviews with pharmacist preceptor and pharmacy students. As this is a small optional clerkship course, there are only 4 student participants and subsequently 4 pharmacist preceptors. We will include all as our study sample. **Results:** Complete Analysis Pending. Three of four students consented. Overall, students were able to implement four unique asthma projects in community pharmacists. We will present a summary of the students' projects, and perceptions of this project. **Conclusions:** The analysis of the Asthma Project will help researchers learn if a practical planning process can help support the implementation of new practice models in asthma. More concretely, this project will help us at the Faculty of Pharmacy and Pharmaceutical Sciences decide on the best way to structure pharmacy students' learning and implementation of new practice models in pharmacy practice.

ET-5. Medication Management in Universal Design: Pharmacy Students in the Interprofessional Design of the SMART CONDO

Lisa M Guirguis, Cheryl A. Sadowski

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Objectives: Function, including medications use, is an important consideration in the design of a living space. Because most individuals with functional impairment or health problems live in the community, it is important for health professionals and designers to consider these issues in developing living space. Because function and design require interdisciplinary collaboration, a course has been designed at the University of Alberta. **Design and Methods:** For over 10 years, Occupational Therapy (OT) and Industrial Design (ID) students have collaborated on Universal Design projects. In 2008, collaboration expanded to include the pharmacy and computing science (CS) students. Forty-eight students (17 OT, 25 ID, 4 Pharmacy and 2 CS) collaborated on the Smart Condo. **Results:** The teams negotiated a family persona to include a mother, father, and child living with multiple sclerosis and diabetes. Each of the four pharmacy students collaborated with interprofessional teams to design items that facilitated safe medication use and monitoring. In Play and Connect, a live videoconference system was designed to support patient-pharmacist communication. In Rest & Sleep, an integrated blood pressure and blood glucose monitoring system supported medication monitoring. In Bathing & Grooming, a foot and weight monitor as well as a waterproof medication storage system were added. Finally, Cooking & Eating design included monitored automated dispensers for glucose tablets and routine medications. While pharmacy students lead the design of these devices, OT and ID students contributed to functionality, aesthetics and design to enhance the final product. **Conclusions:** Pharmacy, OT, CS, and ID students successfully participated in interprofessional design of the SMART Condo. Universal design, with the incorporation of medication management, will help to support individuals with functional limitations who live in the

community. Pharmacy students, in greater numbers, will continue to participate in the smart condo project. The condo will be built on the University campus and will be used for teaching in the health professions and industrial design programs.

Encore Presentation:

Sadowski C, Guirguis L. Medication Management in Universal Design: Pharmacy Students in the Interprofessional Design of the SMART CONDO. Strengthening the Bond Conference. Banff, Alberta. May 21 -23, 2009

ET-6. Assessing, monitoring and supporting the development of generic competencies within the Pharm.D program at the Faculty of Pharmacy at the Université de Montréal.

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Faculté de pharmacie, Université de Montréal, P.O. Box 6128, station "Centre-Ville", Montréal, Québec

Objectives: This poster describes and discusses the system and global process for assessing, monitoring and supporting the development of generic competencies in the Pharm.D. program at the Faculty of pharmacy at the Université de Montréal. Selected competencies are as follows: 1. professionalism; 2. communication; 3. team and interdisciplinary work; 4. scientific reasoning and critical thinking; 5. learning-to-learn; 6. leadership. **Methodology:** Since literature is scarce on how generic competencies should be assessed, we more or less had to build our own system and process from scratch. Consequently, a special committee (the "CECT") was established and entrusted with the following mandate: to define policies and methods of assessment of generic competencies, to foster and monitor their development across the program, and to propose remediation strategies and activities as needed. **Results:** The process was successfully implemented as of the Fall of 2007 and its evolution was closely monitored by the CECT. Results from assessments performed in relevant courses were integrated into the students' electronic generic competencies profile. Extracurricular assessment has also been integrated into it. This profile is assessed on a regular basis by the CECT. Relevant learning activities are proposed to students as needed. So far, about 200 students have received their profile. Remedial activities have been proposed to about 35 students. **Conclusions:** After experimenting with our system and process for 1 ½ year, we estimate that these have globally met our expectations and objectives. We definitely think that our system and process are truly innovative and result-oriented both for our students, our program and the profession. It should indeed make a difference in the development of future pharmacists, contributing to make them more conscious of social and professional realities which they invariably will have to face.

ET-7. Updating online pharmacy resources: Moving the Drug Information Resources (DIR) and Internet Tutorial for Pharmacists (ITP) websites forward

¹Mark C Chambers, ¹Mary E MacCara and ¹Elizabeth A Foy

¹College of Pharmacy, Dalhousie University

Objectives: To refresh and move forward with the College's Drug Information Resources (DIR) and Internet Tutorial for Pharmacists (ITP) websites. **Methods:** The order of review of DIR's categories was prioritized using data generated by Google Analytics®. Within categories, links to resources were checked, current websites/texts evaluated, and new websites/texts located and evaluated. Input on content was sought from subject experts. PubMed dynamic searches were formulated for topics within categories that would benefit from this tool. Current tutorials and format for delivery of ITP were reviewed and found to need updating. A method of creating interactive webpages was chosen and new, unique topics were determined. **Results:** Almost half of DIR's 62 categories, including the 20 with the highest traffic, were thoroughly reviewed resulting in many additions and deletions determined by ourselves and our consultants.

Nineteen categories were populated with over 70 dynamic searches. These give users the ability to find up-to-date journal literature. The revised website can be accessed at: <http://dir.pharmacy.dal.ca/index.html>. Scenarios in ITP were discarded and two new tutorials, “Drug Identification and Availability” and “Finding Clinical Practice Guidelines” were written and formatted using Wimba Create®. The tutorials are interactive and the topics are modern and are not duplicated in other web-based resources. The ITP website has been removed and the new tutorials are available through the Dalhousie College of Pharmacy Preceptor Development Program. They can also be accessed at: <http://www.library.dal.ca/How/LibCasts/>, under the Subject Specific category “Pharmacy”. **Conclusions:** DIR has been refreshed and includes many new links and the ability to perform PubMed dynamic searches. The newly developed tutorials provide a new interactive dimension for learning how to use the Internet to access specific information useful to pharmacists.

ET-8. A model for measuring co-op learning outcomes: a tracker, work term reports and e-portfolio

*Nancy M Waite*¹, Barb Farrell², Heather C Chase¹, Katherine Lithgow³, Richard Roach⁴,

¹School of Pharmacy, University of Waterloo, ²Elisabeth Bruyere Research Institute and CT Lamont Centre, ³Centre for Teaching Excellence, University of Waterloo, ⁴Cooperative Education and Career Services, University of Waterloo

Objective: The University of Waterloo has created Canada’s first and only co-op Pharmacy program, bringing Waterloo’s entrepreneurial, outwardly-focused and dynamic culture to the health sector. While such work-integrated learning is logical for a professional program, current models are structured, academically-prescribed learning with trained preceptors. Co-op, therefore, presented challenges for national accreditation and licensing. **Method:** UW took this as an opportunity to develop a student-driven, reflective, self-assessment model that would allow for evaluation of learning outcomes, be respectful of the employer/employee relationship, enhance student selection of future work terms and emphasize the integration of classroom and workplace learning. This poster will provide details of the model components, and the co-op work term structure and the process. **Results:** The Professional Learning Outcome Tracker (PLOT), work term reflective reports and e-portfolio are the keys to outcome mapping. Elements of the PLOT include: required competencies, an experience log and evidence summary, a student self-rating, and an employer rating and an optional response to the employer rating. The work term reports take specific outcomes (i.e. communication, patient safety, interprofessional practice) and ask students to conduct an in-depth assessment of both the integration of classroom and workplace learning, and their future learning needs. The e-portfolio is the integrating tool, allowing students to showcase their professional development through their professional mission statements, reports, evaluations, etc. Data on student versus employer assessment, and student progress through work terms will be presented. **Conclusion:** Response to the model from students, employers and faculty has been positive. Continued refinement and expansion to capture additional outcomes are part of future plans.

This abstract has been accepted for poster presentation at the upcoming World Association for Cooperative Education Conference June 23 – 26, 2009.

ET-9. Co-operative education: experiential capacity building at the University of Waterloo

Heather C Chase¹, Nancy M Waite¹, Richard Roach²

¹School of Pharmacy, University of Waterloo, ²Cooperative Education and Career Services, University of Waterloo

Objective: The School of Pharmacy at the University of Waterloo accepted its first class in January 2008 and adopted a co-operative model of education. The pharmacy model of requiring students to complete four by four months of work term experience was a challenge considering the concerns about limited pharmacy practice site capacity. Additional factors such as providing students with diverse experiences, students being paid for work terms, and co-op needing to be integrated with the didactic curriculum also needed to be considered. **Methods:** A marketing strategy for employers was developed and deployed with various approaches taken to engage potential employers. In addition, the co-op hiring process within the university was reworked to capitalize on its strengths and meet the needs of the pharmacy employers and students. **Results:** The jobs posted exceeded our expectations in number, types and quality of work experiences for our students. Employers, while unfamiliar with the co-op concept and process, were open-minded and creative about how to fund the positions and the work term student responsibilities. The poster will detail the co-op process developed and the number, types and geographic locations for the first two work terms. For the first work term in the fall of 2008, 73 students participated in the interview process and a total of 117 jobs were posted. Despite the harsh economic environment, 150 jobs were posted for 70 students participating in our January 2009 interview process. To date about sixty percent of our job postings have come from community pharmacy practice, with a strong showing from hospital practice. In addition we have attracted postings from industry, government, family health teams, consultant companies, academia, professional associations and others. **Conclusions:** A highly successful innovative approach was taken to engage the pharmacy practice community in providing the experiential component of our curriculum. Employer support has demonstrated their interest in training future colleagues and untapped creativity within our practice community.

ET-10. Enhancing the cultural competency of Pharmacy and Nutrition students through interprofessional community-based learning and engagement

Roy Dobson¹, Carol Henry¹, Susan Whiting¹, Tanya Verrall¹, Trevor Wilson²

¹University of Saskatchewan, ²TWI Inc

Objectives: Research on promoting cultural competency within the curricula has consistently shown that multicultural/diversity experiences positively influence the academic development and psychosocial growth of university students. Interventions are most effective at the initial stage of health professions education with the implementation of a culturally competent curriculum that addresses cultural sensitivity and cultural awareness. This project sought to: a) design, deliver and evaluate a cultural competency module integrated into Pharmacy and Nutrition curricula; b) describe the experiences of participating students; and c) communicate lessons learned. **Methods:** The module was delivered over five weeks (January 7- March 6, 2008). The Pharmacy and the Nutrition students each received a separate didactic presentation and an interprofessional tutorial to the combined student groups. This was followed by field work consisting of interviews and site observations with one of several Saskatoon community-service organizations. The module ended with a final community engagement exercise where students presented the outcomes of their field work experience in the form of posters and personal reflections to the faculty and representatives of the community-service organizations. **Results:** One hundred and thirty-eight students enrolled in PHAR 365 (n=90) and NUTR 221 (n=48) participated in the project. In addition to nutrition students, NUTR 221 included some students from kinesiology, arts and science and food science. The thirty (30)

interprofessional teams (5-6 students) each observed and interviewed one of fourteen (14) Saskatoon community-service organizations. In presenting the results of their interviews and observations, student teams demonstrated a greater awareness and appreciation of the needs and challenges faced by various individuals and groups in the community. **Conclusions:** A pedagogical framework that reflects culturally responsive teaching through community-based learning can help prepare health care providers to better serve their communities. This project serves as a prototype for a model of cultural immersion experience, exemplifying how faculty, staff, business and community stakeholders may collaborate to facilitate and support students as they become more culturally competent.

ET-11. Why should I care?: Exploring pharmacy students' experience of learning medicinal chemistry.

Simon P. Albon, University of British Columbia, Faculty of Pharmaceutical Sciences

Background: Today there are palpable tensions within pharmacy education and practice as the profession continues to adapt to and legitimize itself within the increasingly complex Canadian health care system. For pharmacy educators and administrators making decisions about curricular composition, finding the balance between the foundational pharmaceutical sciences and the enhanced experiential training necessary for practicing pharmaceutical care has led to considerable curriculum debate and restructuring efforts. In particular, medicinal chemistry faculty have experienced intense pressure to justify what and how much medicinal chemistry content and instruction is appropriate for contemporary pharmacy education. This pressure has been exacerbated by limited understanding of and research into: 1) the place of medicinal chemistry in contemporary pharmacy education and practice, 2) the impact of traditional teacher-centered approaches to medicinal chemistry instruction which frequently do not connect medicinal chemistry to pharmacy practice in meaningful ways, and, 3) the students' often negative experiences of learning medicinal chemistry in pharmacy programs including long standing perceptions of irrelevance of medicinal chemistry in their education and training. **Objective:** This study, representing part of a larger research program addressing the issues exacerbating the plight of medicinal chemistry in contemporary pharmacy programs, explores student's experiences of learning medicinal chemistry in the first-year physicochemical properties of drugs course in the UBC pharmacy program. **Methods:** Based on cognitive theories of novice and expert learning, action research methodology was used to collect a range of quantitative and qualitative data to examine student's experiences of learning medicinal chemistry. Data sources included student midterm and final exams, office hour discussions, and written personal statements. **Results:** Students' experiences of learning medicinal chemistry were indicative of novice learning. Functional group recognition, particularly related to pattern recognition in larger drug structures, provided the greatest difficulty for students. Relying on previous chemistry knowledge, approaching chemistry learning as memorization, and not recognizing time-on-task as critical to developing expert-level knowledge led to student difficulties. Most students felt medicinal chemistry was important for their training as pharmacists. **Conclusions:** Understanding students' experiences of learning may have important implications for curriculum decisions, design and teaching practice regarding medicinal chemistry in contemporary pharmacy programs.

ET-12. Providing pharmaceutical care - academic development of a professional competency

Chantal-Pharand, Louise Mallet, Johanne Vinet, Celine Leveille-Imbeault, Julie Courture, Françoise Crevier

Faculty of Pharmacy, Université de Montréal, Montréal, Canada

Objectives: One of the main professional competencies that a pharmacy student must acquire throughout his pharmacy program is the ability to provide pharmaceutical care. In the context of transforming our bachelor's degree into a professional doctorate in pharmacy (PharmD), it was decided that this competency would be the "pivot" or at the center of the 14 Pharmaceutical Care courses integrating different disciplines (pathophysiology, biopharmaceutics, pharmacology, pharmacotherapy, etc.) In order to provide a uniform language amongst faculty and students, the pharmaceutical care process was reviewed, mapped and used to create an interactive teaching tool for all Pharmaceutical Care courses.

Methods: A team of 5 community and hospital pharmacists, along with an instructional designer, first undertook a systematic analysis of the competency. A detailed map of the cognitive process involved in providing pharmaceutical care was then developed using software specifically designed for that purpose (MotPlus®). **Results:** Mapping of the cognitive process in providing pharmaceutical care resulted in 295 knowledge units. To facilitate the implementation of this active learning strategy, the prototype was first made into a paper "road map" and provided to all students. This map allows students to "travel" throughout the process while resolving a case. Students were taught how to read the map and had several opportunities to use it to resolve cases in the Pharmaceutical Care courses. The prototype will also be used to develop a Web tool that will allow students to "travel" throughout the process on their computer, to listen to audio capsules or to watch videos attached to the different knowledge units. **Conclusions:** By making explicit this complex pharmaceutical care process by the use of a validated knowledge map and applying it throughout the different courses of the new program, the students' learning process will be facilitated and allow a better development of the competency.

This abstract was presented at the European Society of Clinical Pharmacy, May 2007.

ET-13. An enhanced Advanced Pharmacy Practice Experience (APPE) community model to improve patient care

Rosemin Kassam, and *Mona Kwong*,

Faculty of Pharmaceutical Sciences, The University of British Columbia

Objective. To quantify the benefits of an enhanced advanced pharmacy practice experience (APPE) community pharmacy model compared to the traditional program by comparing basic and comprehensive pharmaceutical care (PC) care provided by students and by assessing the enhanced arm preceptors' perspectives of the APPE. **Methods.** A pilot study consisting of one treatment (enhanced) arm and two control (traditional) arms was used. The enhanced APPE consisted of a preceptor education program, a 5-day onsite student orientation and an 8-week experience completed at one rather than 2 community sites. **Results.** The level of interventions provided by students in the treatment arm significantly surpassed that of the control arms. In addition, preceptor questionnaires indicated overwhelming support for the enhanced model over the traditional APPE. **Conclusions.** The study's findings demonstrated that the enhanced APPE model enabled the participating pharmacies to provide increased level of patient care (as compared to the control sites) and improved preceptor satisfaction with the APPE.

ET-14. Curriculum Exit Survey

David W. Fielding¹, Sharon Brown¹, Denise Mok¹ and G. William Mercer²

¹Faculty of Pharmaceutical Sciences and ²Applied Research and Educational Services, the University of British Columbia

Objective: UBC's Faculty of Pharmaceutical Sciences introduced an abilities-based curriculum in 2003. Individual courses in the new curriculum were designed to teach and assess certain general and specific abilities. The curriculum implementation over four years was extensively evaluated. One part of that evaluation cycle was yearly exit surveys of first through fourth-year students in 2005, 2006, 2007 and 2008. **Methodology:** All students (students part of the "old" and "new" curriculum) registered in the B.Sc. (Pharm.) program were asked to complete a web-based questionnaire each year, concerning their experience with that year's curriculum. The general context the students were asked to consider was: "The Faculty has been attempting to move from a focus on teaching facts and memorization to a focus on ability-related learning outcomes. We would like to know how well we have done in the past year in helping you develop the following abilities. Please answer each item in terms of how well we did for YOU." This statement was followed by a list of nine general abilities and eight specific abilities. For each ability the respondent used a 5-point Likert-type scale (very poorly = 1; poorly = 2; neutral = 3; well = 4; very well = 5). A set of four hypotheses guided the research and focused upon the differences in students' ratings of how well the Faculty taught the general and specific abilities as they progressed through the curriculum. **Results:** Each of the 2005, 2006, 2007 and 2008 data sets were combined to create two scales (General and Specific Abilities). (The 9 General Abilities items together had a Chronbach's Alpha reliability of 0.858, and the 8 items in the Specific Abilities set had an Alpha of 0.885.) ANOVA revealed that the scale values varied according to the student's membership in the old or new curriculum. **Conclusions:** From the students' perspective, the new curriculum was achieving the specified educational outcomes.

ET-15. Evaluation of the first-year entry-level Pharm.D. community pharmacy rotation at Université de Montréal

Ema Ferreira^{1,2}, Tania Choquette¹, Marie Dubois¹, Gilles Leclerc¹, ¹Faculté de pharmacie, Université de Montréal, ²Centre hospitalier universitaire Ste-Justine, Montréal

Introduction: The first community pharmacy rotation is an introduction to pharmacy practice after the first year of the entry-level Pharm.D. Each student is assigned to an accredited site with a trained preceptor for a four-week rotation. **Objective:** To evaluate the clinical community pharmacy rotation for first-year entry level Pharm.D. students. **Study Methods:** A web-based questionnaire was sent to all students and preceptors after the rotation. Student preparedness and ability to perform tasks, and tools developed for the rotation were evaluated. Two separate focus groups were also held with preceptors and students. **Results:** In May or June 2008, 193 students completed the rotation and were supervised by 133 pharmacists. The questionnaire was completed by 123 (64%) and 81 preceptors (61%). The preceptors and students found that students were most prepared to create a patient database and to prepare drugs and less prepared to manage follow-ups. Most preceptors agreed that the evaluation tools are adequate to evaluate transverse and specific competencies; however their format could be more practical. The patient data collection sheet was the least adapted for this rotation. The majority of students (92%) would return to the same site for a rotation and 93% of preceptors would repeat the experience. During the focus groups, students mentioned that the first rotation was a good means to apply knowledge and to interact with patients. Preceptors found the students well prepared and the tools useful. **Conclusion:** Both students and preceptors appreciated the first-year community rotation. Adjustments to improve certain aspects will be made.

ET-16. Collaborating for education and practice: An interprofessional newborn care module on breastfeeding.

Anne Drover^{1,2}, Marilyn Jacobs^{1,3}, Paula Kelly^{1,3}, Rebecca Law^{1,4}, Janet Murphy Goodridge⁵, Gladys Schofield^{1,6}

¹Centre for Collaborative Health Professional Education, ²Faculty of Medicine, ³School of Nursing,

⁴School of Pharmacy, ⁵NL Provincial Perinatal Program, ⁶Centre for Nursing Studies Memorial University St. John's, Newfoundland & Labrador, Canada

Introduction: An interprofessional education module about collaborative teamwork in the care of the newborn was created for medical, nursing, and pharmacy students. **Methods:** Faculty identified common curricula in the care and support of the newborn. Breastfeeding was chosen as a focus, as it demonstrates the importance of collaborative care for a successful outcome. A case-based module incorporating both electronic and face-to-face learning was used. Nursing, medicine and pharmacy students participated in small groups and a panel discussion. **Results:** Two hundred and nineteen (N = 219) students participated: 62 medicine, 16 pharmacy, and 141 nursing. Two hundred students completed an evaluation of the module (response rate of 91.3%). Eighty-three percent (83.0%) of respondents felt the learning experience enhanced their understanding of inter-professional teamwork. Students appreciated the roles and expertise of other health professionals. Both small group learning and panel discussion were rated highly: 84.4% and 83.9% of students respectively considered these activities useful. Over 80% of students said the learning objectives were clear, the module was well organized, and the workload was fair. Eighty-five percent (85%) of students indicated the case studies were more useful in facilitating learning, followed by the small group learning experience. Overall, 76% of respondents agreed or strongly agreed that this module was a meaningful learning experience. **Conclusion:** The module enhanced students' understanding of interprofessional teamwork and the subject area of breastfeeding. We have demonstrated that it is possible to develop curricula in breastfeeding education for undergraduate health professional students that has high satisfaction and meets educational outcomes. This work was presented at the conference Breastfeeding: The Smart Choice - Stepping Up to Baby-Friendly on February 12 - 21, 2009 in Vancouver, BC.

ET-17. Reconceptualizing curriculum in pharmacy education

Cheryl Cox

Faculty of Pharmacy & Pharmaceutical Sciences, University of Alberta

Background: The pharmacy profession is attempting to shift from a product to a patient focus and similarly contemporary pharmacy curricula are shifting to incorporate patient-centred care. The field of Curriculum Studies is moving in new directions of curriculum inquiry. Curriculum viewed as discourse questions the ways in which language is used, the modes of reasoning, styles of meaning making and knowledge orientations. **Objectives:** Of interest in this curriculum inquiry is how it is that students and preceptors come to their way of understanding patient-centred care. **Methods:** Based on Gadamer's principles of philosophical hermeneutics, conversation was used to explore the "practice" experiences of 3 students and 3 preceptors within the pharmacy curriculum at the University of Alberta. The conversations were recorded and transcribed and specific situations were revisited with the study participant to further explore how it is that the participant came to that understanding of the experiences.

Summary of Results: An important finding of this study was the instrumental reasoning embedded in the way patient-centred care was understood. Students expected to "fix" the patient and they were responsible if the "fix" failed. Preceptors struggled to achieve a "perfect" world of pharmaceutical care for their students. Aoki suggests that an instrumental orientation leads to expectations of control and a rule governed view of "practice" which contradicts attending to the individual's situation. An instrumental orientation fails to address the messiness of lived situations, the uncertainty and the unpredictability. These findings challenge the taken for granted assumption of practice as the "application of theory".

Conclusions: Curriculum research such as this contributes to reconceptualizing curriculum as a more complex phenomena. Curriculum discourse built on the dominant views of knowledge in pharmacy education can lead to understanding practice as instrumental action. The Blueprint for Pharmacy suggests the need for a cultural shift within the profession. I propose that the “cultural shift” needs to originate within the curricula of pharmacy education and the ways in which curriculum informs the understanding of practice and patient-centred care.

SOCIAL AND ADMINISTRATIVE RESEARCH ABSTRACTS

SAR-1. Antipsychotic prescriptions to children: a Canadian population-based study

S. Alessi-Severini¹, R. G. Biscontin², D.M. Collins¹, J. Sareen³, M.W. Enns³

¹Faculty of Pharmacy, University of Manitoba; ²Department of Accounting and Finance, Asper School of Business, University of Manitoba, ³Department of Psychiatry, Faculty of Medicine, University of Manitoba, Winnipeg, Manitoba, Canada

Objectives: To report the prescribing of antipsychotic agents (AA) to the youth population of the Canadian province of Manitoba over the course of the last decade. **Methods:** Utilization of antipsychotic agents in children and adolescents (18 years old or younger) was described using data collected from the administrative databases of the Manitoba Health Data Repository and the Statistics Canada census. **Results:** The youth population has been stable over the last decade at approximately 300,000 in the province of Manitoba (27% of the total population), but the prevalence of antipsychotic use in this segment of the population increased significantly (from 0.14% to 0.64%) with the introduction of the second generation agents (SGAs). The male to female ratio increased from 1.5 to 2.6 as the male youth population represented the fastest growing subgroup of antipsychotic users in the entire population of Manitoba. Stratifications by income quintile showed that the highest percentages of AA use was reported for children living in low income urban neighbourhoods with approximately 30% of all children belonging to the two lowest income quintiles. Total number of prescriptions also increased significantly despite the lack of approved indications in this population. The number of distinct prescribers also increased. The most common diagnoses linked to antipsychotic users in recent years were Attention Deficit Hyperactivity Disorder (ICD-9-314) at more than 60% and Conduct Disorders (ICD-9-312) at more than 50% in recent years while the prevalence of autism fluctuated between 19 and 20%. **Conclusion:** It appears that since their introduction to the market the SGAs have been used off-label in the youth population as adjunctive treatments for aggressive behaviours across a range of diagnoses. The dramatic increase in antipsychotic prescribing to children is alarming especially as more reports of significant adverse events associated with the use of these agents become available.

SAR-2. The economic analysis of the price drivers on statin drugs under the Nova Scotia Pharmacare Programs

Jerry Zhe Ren¹, Stephen Graham^{2,3}, Ingrid Sketris², Lilani Kumaranayake¹, Kuan Xu¹, and Mike Joyce³,

¹Department of Economics, Dalhousie University; ²College of Pharmacy, Dalhousie University;

³Pharmaceutical Service, NS Department of Health

Objective: This paper studies drug price differentials under Canadian healthcare policy and legislation. It focuses on one class of antilipemic drug, the HMG-CoA reductase inhibitors (statins), which are reimbursed under the NS Pharmacare Programs, as the sample cohort. The study analyzes the factors associated with drug price changes. In particular, it addresses the following questions: Are me-too drugs (patented drugs in the same class as the first-in-class drug) drivers of the overall drug price level? Do more generic substitutes create increased downward pressure on brand-name drug prices? How much more would the NS provincial drug plan have spent, assuming no generic drugs were available?

Methods: Data related to drug products, including: patent information, WHO anatomical-therapeutic classification (ATC), strength, dosage form, and manufacturer list price, were used in the analysis. The dataset represented 105 statin drug products in different strengths from 6 ATC sub-groups. The quarterly observations span from April, 2000 to June 30, 2008. The whole panel contains 2,082 observations in an unbalanced manner. A multilevel random-effect panel regression model was employed to examine the statistical relationship between drug price dynamics and the changes of drug market structure. **Results:** The regression analysis shows a weak association between the number of generic drugs and the decrease in drug prices. Assuming there were no generic substitutes available in the market, an estimated \$2.3 million extra would have been spent by the NS Pharmacare Programs for statins during the study period. **Conclusions:** The lack of drug pricing regulations regarding off-patent brand-name drugs at the Federal level and limited policies applying to these drugs by public drug plans have important implications on nationwide drug cost containment. Further cost savings would be dependant on large price drops in generic drugs and a shift of drug utilization in favour of generic drugs.

SAR-3. Utilization patterns of statins in Nova Scotia Seniors' Pharmacare Program

Michael S. Joyce, Jane E. Gillis

Nova Scotia Department of Health, Halifax, Nova Scotia B3J2R8

Objectives: The study looks at the change in utilization patterns over time for the use of statins in the Nova Scotia Seniors' Pharmacare program. The associated change in costs and, factors causing costs to change are identified. **Methods:** The study uses claims data residing on the Nova Scotia Seniors' Pharmacare Decision Support System covering the January 1, 2005 to November 30, 2008 time period. The measures of change are unique monthly beneficiary counts for utilization and annual drug ingredient costs. A measure of average defined daily dose (DDD) on a per molecule basis is calculated to compare costs between molecules. The products are grouped at the molecule level. The changes related to cost are identified as demographic (population aging, growth), price, and quantity (change in number of tablets, strength, and molecule mix). **Results:** Increased use on a unique beneficiary basis is observed for atorvastatin and rosuvastatin. The other molecules indicate flat to declining patterns. Atorvastatin has the largest share of beneficiaries; however, growth in the use of rosuvastatin is at a higher rate compared to atorvastatin. Higher numbers of beneficiaries are observed over the time period; however, the rate of cost growth is slowing in each year from 10.4% in 2006 to 7.3% in 2008. Quantity change has the greatest impact on cost growth in terms of comprising the largest component of overall price change. A breakdown of the quantity variable reveals the largest factor in the slowing cost increase is related to the impact of the change in product mix which indicates a decline of -3.5% in 2008. **Conclusions:** On a per DDD basis rosuvastatin is the least costly molecule in its chemical/therapeutic subgroup. Although a definite link cannot be firmly established, it is possible that the observed change in molecule mix and associated decreased rate of cost growth is related to the increased use of rosuvastatin.

SAR-4. Identifying early prescribers of cyclooxygenase-2 inhibitors (COX-2s) in Nova Scotia, Canada: Considerations for targeted academic detailing

Kent E. M. Groves^{1,2}, Tony Schellinck³, Ingrid Sketris⁴, Neil J. MacKinnon⁵, Steven Zhao⁶

¹College of Pharmacy, Dalhousie University, ²Epsilon LLP, ³Faculty of Management, Dalhousie University, ⁴College of Pharmacy, Dalhousie University, ⁵College of Pharmacy, Dalhousie University, ⁶ICOM

Objectives: The purpose of this study was to describe physician prescribing patterns, and establish criteria by which various prescribing profiles may be segmented and identified. Gaining insight into the profiles of prescribing physicians would serve to better target detailing and continuing medical education resources, which would potentially lead to a reduction in health-care (prescription drugs) related expenditures. **Methods:** A sample of 925 physicians practicing in Nova Scotia was characterized by age, sex, rural/urban nature of their practice and specialty. They were subsequently evaluated relative to all prescriptions filled by their patients in a publicly funded drug plan (seniors Pharmacare). **Results:** This analysis established the profiles of two key groups of physicians: (1) those most likely to comprise the early, high volume COX-2 prescribing universe (profiles based on the absolute number of prescriptions written over a given period). These individuals were likely to be older (than the mean), experienced male general practitioners operating in a rural practice, and (2) those most likely to comprise the early, high relative COX-2 prescribing universe (prescribing of COX-2s relative to COX-2s and non-selective non-steroidal anti-inflammatory drugs (NS-NSAIDs)). These individuals were likely to be younger (than the mean); less experienced female general practitioners, operating in an urban practice. **Conclusion:** This research has identified unique physician segments that account for either the largest volume of prescriptions for new drugs, or the largest relative volume of prescriptions, in this one therapeutic area. As pharmacists expand their medication management roles, they can tailor educational messages to take into account physician prescribing characteristics.



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PART 2.0

MINUTES OF AFPC MEETINGS

2008 - 2009



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**MINUTES
MIDYEAR COUNCIL BUSINESS MEETING
JANUARY 25, 2009
MONTRÉAL, QUÉBEC**

January 25, 2009

8:30 AM, Room 2199 in the Faculté de pharmacie

- 1) Morning roll call:** Present and accounted for were Roy Dobson (President), Simon Albon (Past President), Mike Namaka (President Elect), Linda Hensman (ADPC Representative), Silvia Alessi-Severini (Manitoba), John Hawboldt (Memorial), Mary MacCara (Dalhousie), Ingrid Price (British Columbia), Lalitha Raman-Wilms (Toronto), Dan Thirion (Montreal), Nancy Waite (Waterloo), Nese Yuksel (Alberta), and Frank Abbott (Executive Director).
Regrets: Bev Allen (Saskatchewan) and Frédéric Calon (Laval).
- 2) Approval of the agenda:** The agenda was approved on a motion from Dan and seconded by Ingrid.
- 3) Minutes from the Chicago Meeting:** Minutes of the **Annual Council Meeting** of July 19, 2008 were approved on a motion from Ingrid and seconded by Mary.
The minutes of the **New Council Meeting** of July 22, 2008 were approved on a motion from Simon and seconded by Silvia.
Proceedings for 2008 – online.
- 4) Business Arising from the Minutes:**
 - 4.1 Educational Outcomes Project:** Simon and Frank gave some background to the project in terms of the contract negotiated with Nancy Winslade to update educational outcomes for both the BSc in Pharmacy and Entry Level Pharm D programs. Levels and ranges for the ELPD program were to be created. The educational outcomes for both degrees were intended to be in one document but differences between the two degrees were to be differentiated either through the educational outcomes or in the levels and ranges of the two degrees.
Nancy Winslade arrived at 9:30 AM and gave a presentation of where the project was going

following the meeting that she had with the Task Force group on Friday, January 23, 2009. In the discussion that followed council made it clear that while educational outcomes for entry to practice for the two degrees may be similar, there are distinct differences between the two degrees and the document being prepared should clearly set these out. For example in the area of prescribing, the expectations for an ELPD graduate is that they can do this immediately while for a BSc graduate they could perform prescribing following additional training. Nancy accepted that the Council wanted a document(s) that either through educational outcomes and/or levels and contexts would be able to differentiate the two entry to practice degrees. Nancy noted that the time frame may change somewhat about the delivery of a report in Halifax. Linda stated that the levels and ranges will help clarify in our own minds about the entry level Pharm D relative to the BSc.

4.2 Insurance for Council and Executive: Simon spoke to the report on Directors and Officers Liability Insurance that was described in documentation obtained from Volunteer Canada and distributed to Council for this meeting. Simon's report contained the following information:

- 1) Since the AFPC AGM in Chicago the insurance coverage for each council and executive member (faculty members excluding AFPC Executive Director) has been collected for all 10 schools of pharmacy. Thank you to each council member for gathering and forwarding this information.
- 2) The issue of appropriate insurance coverage for the AFPC Council including the AFPC Executive Director (AFPC's only employee) has been determined through consultation with Volunteer Canada (www.volunteer.ca).
- 3) All AFPC Council members and Executive members (President Elect, President and Past President) have liability insurance coverage through their home institution (Dalhousie may be the exception).
- 4) Additional liability insurance for AFPC including the AFPC Executive Director can be obtained through Volunteer Canada (underwritten by Aon Reed Stenhouse Inc.) in the form of Directors' and Officers' Liability Insurance (DOLI; see the associated policy wording for details of the coverage).
- 5) DOLI annual premiums for AFPC (annual operating budget: \$100,001-250,000) would be: \$960 for \$1 million dollars liability insurance coverage/ \$1476 for \$2 million dollars liability insurance coverage (policy renewal dates are March 31st each year). There will also be an annual fee for Volunteer Canada membership of \$100.00.

Following discussion of the options it was moved by Lalitha and seconded by Silvia that AFPC take out the \$2 million dollar DOLI insurance coverage. Carried.

5) Committee Reports:

5.1 Awards Committee Report: Mary presented the report of her committee that had met to consider the criteria for the Bristol-Myers Squibb National Award for Excellence in

Education. The general consensus was that the criteria should not be modified at this time. The committee also crafted an outline for a new teaching innovation award. Mary stated that applications that failed to meet the BMS award criteria would be suitable for the innovative teaching award. Linda liked the innovative teaching award but not sure of the source of funding. Lalitha stated that the committee was firm that the criteria of the BMS award not be changed. Nancy stated that the new award is more tuned to the innovative but not of the teaching career type. Mike said we should support the two teaching awards. General opinion was that we continue to develop the innovative teaching award.

Discussion also occurred on the proposed Graduate Student Award for Pharmacy Practice Research. It was recommended that the eligibility for this award be extended to exceptional undergraduates who are considering a graduate career. The meritorious service award was discussed briefly. Details are still to be developed. Mary spoke to the number of applications received for the major awards and requested names of reviewers. Acceptance of the report was approved on a motion from Mary and seconded by Simon.

5.2 Bylaws Committee Report: Simon's report was brief with no new business to report. Moved by Simon and seconded by Lalitha to accept the report. Carried.

5.3 Communications Committee: Committee chair, Dan Thirion and committee member Simon Albon spoke to the report. The report outlined the format of the newsletter, changes in web site management, and on-going or planned web site projects. Ingrid asked about the posting of program evaluation materials. Frank is to work with the new web site manager to have this project initiated. Additional web site access is also needed to enable committee members to make changes to the web site information. Maintenance of the research data base is still to be organized and the teaching database has yet to get off the ground. Simon noted that Sylvie had originally agreed to work on the teaching data base. Nancy suggested that the IPE part could be developed as part of the teaching data base. Dan said he would contact Sylvie on whether she was still prepared to work on the teaching data base. Moved by Dan and seconded by Simon that the report of the communications committee be accepted. Carried.

5.4 Conference Planning Committee 2009 in Halifax: Mary presented the report on behalf of the Conference planning committee. In reviewing the schedule of speakers and events, Mary noted that the student winner's reception was new and sponsorship was being sought to cover costs. Moved by Mary and seconded by Lalitha that the report be accepted. Carried.

5.5 Conference Planning Committee 2010 in Vancouver: Ingrid gave a verbal report on conference planning for 2010. Ingrid noted that she had borrowed from suggestions for conference planning that are contained in the Education Committee report. The potential theme for the 2010 conference: The dynamic nature of curriculum - changing, growing, reforming. Topics related to curriculum mapping and program evaluation are suggested for the program. Ideas for the conference that arose from discussions around the table included the following:

- Provide support for writing education research grants (create a SIG group)
- Provide a workshop on writing grants and what grants are available (educational, practice-based) – possible pre-conference session.
- Provide support on education research methodology – how to conduct education research – pre-conference session.
- Create opportunities for round table discussions on IPE, etc.

Because we are meeting jointly with CSPA there is a need to consider the content for a joint opening session. Location of the conference has yet to be decided. The Sheraton Wall Centre or River Rock Casino are the current hotel choices. The date for the 2010 conference and meetings is June 2-5 (Wednesday through Saturday). Simon suggested that we invite teachers of pharmacy technicians to attend the conference. Nancy will look into the details of a pharmacy technician educators association. Moved by Ingrid and seconded by Dan that Ingrid's report be accepted for the minutes. Carried.

5.6 Education Committee: Nancy spoke to the report by first indicating the recent activities of the committee. Terms of reference for the committee have been proposed. The committee has worked on several possible name changes for the AFPC annual meeting. Themes and program format have been proposed for the next three years of the annual conference. The education mission statement for AFPC is under review. Discussion occurred around the name change for the conference and it was recommended that this be brought forward to the next AGM in Halifax. "Canadian Pharmacy Education and Research Conference" (CPERC) was another proposal for name change. The need for close liaison between the education committee and the conference planning committee was emphasized and this should be clearly included in the terms of reference. Moved by Nancy and seconded by Nese that the report of the education committee be accepted. Carried.

5.7 Nominating Committee: Simon spoke to the nominating committee report noting the council members whose first terms in office are coming to a close.

Bev Allen, University of Saskatchewan – replaced Roy Dobson and is now eligible for a full first term

Dan Thirion, Université de Montréal is eligible for a second term.

Mary MacCara – Dalhousie University is eligible for a second term.

President Elect for 2009-2010 – nominations are now being sought. Suggestions of potential nominees are to be directed to Simon. Moved by Simon and seconded by Linda that the nominating committee report be accepted. Carried.

5.8 PEP Canada Report: Nancy and Linda contributed comments regarding the presentation made by PEP Canada to the Deans at their midyear meeting on Friday, January 23, 2009. Co-chair Kelly Brink (Manitoba) gave the presentation and was supported by Harriet Davies (Dalhousie) who sat in for co-chair Wanda Spurrell (MUN). Nancy Waite, and Louise Mallet (Montréal) also attended. The Deans were most grateful for the information and confirmed their support for PEP Canada activities. Communication appears to still be an issue for some of the Deans and it was recommended that PEP representatives present or copy their Deans with the latest PEP report once it becomes available. Turning to the report of PEP Canada, the activities of the group were summarized since their last face-to-face meeting in Chicago and activities are described for the upcoming meeting in Halifax. A major issue for the group is finding adequate experiential training sites within healthcare institutions and they have asked the Deans to meet with CSHP executive with respect to designing a national strategy to facilitate and expand institutional experiential learning and to adequately prepare students for the hospital experience. Interprofessional education and training of pharmacy students is an item that PEP Canada must soon address. Nancy stated that the energy of the group remains strong. Moved by Nancy and seconded by Simon that the report of PEP Canada be accepted. Carried.

5.9 Planning and Finance Committee: Roy and Frank presented the financial statements for 2008 and the budget for 2009. Frank had provided notes on the finances and budget for council to review. DOLI (insurance) will be added into the budget for 2009. The costs allotted to program evaluation for 2009 are perhaps not realistic considering the activities planned. The funds are important to future years as program evaluation is a continuing process. Moved by Roy and seconded by Lalitha that planning and finance committee report be accepted. Carried..

5.10 Program Evaluation Committee: Ingrid spoke to the Deans perception of poor communication with respect to progress and status of program evaluation. The conclusion is

that we need an information transmission plan. It was suggested that Ingrid collect information from each committee member on the state of program evaluation development within their Faculty. An update of this information would then be created in order to send to the Deans and to committee members. There is also the feeling that committee representatives need more training/support to fully develop program evaluation within their unit. Ingrid was to consider visiting Faculties in need of help and working with the individual responsible for program evaluation. Another priority is to create the web site and make it easy for individuals to access program evaluation materials. Lastly, it was suggested that a budget be created on how to spend the remaining funds allocated to program evaluation. Moved by Ingrid and seconded by Roy that the report on program evaluation be accepted. Carried. Lalitha added that council should go on record to thank Ingrid for the excellent work that she has done and for the patience she has shown throughout the development process.

5.11 Research Committee: John presented the research committee report. The research data base on the AFPC web site needs a name change to make it more visible to potential users. The research categories need to be reviewed for efficient recovery of useful information. Mike endorsed the intent to make the research database user-friendly. Costs of a significant redesign of the data base were raised. Updating the current research data base is a significant task and a mechanism that is cost effective to achieve updating needs to be found. There was a call for new members of the committee now that Payal has left Council. Lalitha offered to join the committee. Moved by John and seconded by Mike that the research committee report be accepted. Carried.

5.12 Strategic Planning Committee: Roy gave a brief report on the strategic planning that came out of this midyear meeting. A more complete report will be offered for the AGM. Moved by Roy and seconded by Dan for acceptance. Carried.

6. Reports of Representatives to External Groups (Note: these reports will be called for presentation at the annual general meeting in Halifax on June 4, 2009):

- | | |
|--------------------------------|-----------------------------|
| 6.1 ADPC Representative | Linda Hensman |
| 6.2 CCAPP | Susan Mansour/Carmen Vezina |
| 6.3 CCCEP | Yvonne Shevchuk |
| 6.4 CPhA Academic Board Member | Rita Caldwell |

6.5 PEBC: Frank noted that AFPC representatives were currently Lavern Vercaigne (Manitoba) and Louise Mallet (Montréal). Louise is completing her term and Anne Marie Whelan (Dalhousie) has agreed to replace Louise on the PEBC board. We need approval from Council. Moved by Roy and seconded by Dan that Council approve the appointment of Anne Marie Whelan as the AFPC representative to the PEBC board. Carried.

6.6 Canadian Pharmacy Practice Research Group Nese Yuksel

6.7 USP Raimar Löbenberg

6.8 Report on CSHP AGM 2008: Former AFPC Past President Anne Marie Whelan attended the annual general meeting of CSHP held in Saint John, NB, August 9-12, 2008. Her report will be included in the year's activities of AFPC. Roy agreed to represent AFPC at the next CSHP annual general meeting.

7. New Business

7.1 NAPRA Draft Model of Competencies and Standards of Practice for Canadian Pharmacists: Frank reported that he had distributed this document to the Faculties and called for feedback to NAPRA. The only response that he was aware of was from the University of Toronto.

8. Executive Director's Report:

Frank indicated that he would make this available for the annual general meeting in Halifax. He asked if the format used in the past was agreeable to council. He will capture the activities of council over the year and note new directions and actions still to be taken. In his report he will announce his retirement from the position of Executive Director of AFPC/ADPC as of June 2010.

An in camera session was then held.

9. Other business:

9.1 Natural Health Products (NHP's) and Pharmacy Practice: Core Competencies: Heather Boon's group at the University of Toronto had sent a report of their research to Frank and asked if a session on this work could be held at the AFPC annual conference in Halifax. Lalitha spoke in support of the group. Frank passed the materials along to Mary MacCara to take to the conference planning committee for consideration.

9.2 Curricular development workshop – physician / pharmacist collaboration and mentoring: Roy was invited by Lalitha to attend this workshop in Toronto on February 11, 2009.

10. Adjourned 3:00 PM.



AFPC

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

**MINUTES
AFPC ANNUAL COUNCIL MEETING
LORD NELSON HOTEL AND SUITES
VANGUARD ROOM 2
WEDNESDAY, JUNE 3, 2009**

8:30 AM Breakfast

9:00 AM

1. **Opening Remarks:** President Roy Dobson welcomed all in attendance at the council meeting including the delegates from CAPSI. Roy noted that Halifax was his old stomping ground and he stated what a pleasure it was to be back in the city. Everyone was looking forward to what appears to be a very interesting conference in the days ahead.
2. **Roll Call and Approval of Agenda:** Council attendees included President Roy, Simon Albon (Past President), Mike Namaka (President Elect), Ingrid Price (UBC), Nése Yuksel (Alberta), Bev Allen (Saskatchewan), Silvia Alessi-Severini (Manitoba), Nancy Waite (Waterloo), Lalitha Raman-Wilms (Toronto), Dan Thirion (Montréal), Frédéric Calon (Laval), Mary MacCara (Dalhousie), John Hawboldt (Memorial) and Frank Abbott (Executive Director). Regrets: Linda Hensman (ADPC).
The **agenda** of May 28, 2009 was approved with no additions.
3. **Council Meeting Minutes**
 - 3.1 Midyear Council Meeting, Montréal, January 25, 2009: The minutes were approved on a motion from Roy and seconded by Bev.
 - 3.2 Notes from Strategic Planning Session Midyear Council Meeting, Montréal, January 24, 2009 – for information
4. **Business Arising from the Minutes**
 - 4.1 **CAPSI:** Board members, Brad Elliott (President Elect) and Jonathan Mailman (President) presented to council on CAPSI business and recent initiatives. The CAPSI Board has decided to retract their position statement on the entry level Pharm D degree and will carry out a review of their stance on this degree program. Ingrid asked what research will be done for this review and it was implied that a survey would be carried out much like what was done previously.

Roy wondered what impact the Blueprint for Pharmacy recommendation in support of the entry level Pharm D had made on CAPSI policy. Given that it has been five years since the position statement was made, Roy felt that reflection of the position statement might be a better term than a review. It was felt that CAPSI should be included in some of the educational initiatives related to the Blueprint for Pharmacy recommendations. Leadership for implementation was open to a number of pharmacy organizations yet Simon noticed the absence of CAPSI as one of the participating organizations. Under the commitment to act, some of the pharmacy faculties are integrating blueprint initiatives into the curriculum and Nancy felt that student input into curriculum design would be welcomed.

Governance of CAPSI was briefly described and there is a move underway to spread board responsibilities to more of the executive. CAPSI is currently reviewing their strategic plan. A major CAPSI initiative is to develop a bank of mock OSCEs in partnership with PEBC. Mock OSCEs are intended to help students become familiar with the exam format so this initiative would be of major assistance to students within schools that do not have mock OSCE. Another major CAPSI initiative is to hold a symposium for students at each of the Faculties. Electronic dispensing and preparing for pandemics were some of the recently suggested symposium topics. Professional Development Weekend (PDW) will be held in Toronto, January 13-16, 2010. Bev stated that he was on the advisory committee for the 2011 PDW and noted that obtaining financial support was becoming a struggle. Sponsorship in general for CAPSI programs is down. CAPSI has been invited to serve on the Canadian Patient Safety Institute competencies review. Brad and Jonathan were thanked for coming and taking the time to make their presentation. Communication between our two organizations is essential to building a collaborative relationship.

4.2 Virginia Crawley, President, Canadian Pharmacy Technicians Educators Association (CPTEA) and Tim Fleming, President and CEO, Canadian Association of Pharmacy Technicians (CAPT) information session: Virginia (Ginny) introduced herself as a pharmacy graduate of Dalhousie University and she had worked in community pharmacy before getting into pharmacy technician programs. A major initiative of CPTEA has been the development of educational outcomes for pharmacy technician programs and the educational outcomes were eventually published in 2006-2007. CPTEA is now looking into how we can make education of pharmacy technicians that much better. Tim Fleming introduced himself as

a practicing pharmacy technician from Niagara Falls with work experience in Woolco and Shoppers Drug. Tim is also the pharmacy technician coordinator for the International Graduate Program of the Leslie Dan Faculty of Pharmacy, University of Toronto. CAPT was founded in 1983 by pharmacy technicians from Humber College in Toronto. CAPT now consists of a board of seven individuals and a membership of 2000 individuals and growing. The prime focus of CAPT today is the professional development of pharmacy technicians. CAPT has formed various ad hoc committees to deal with issues of prime importance. If there is anything to do with pharmacy, CAPT is there.

Simon asked why there were two pharmacy technician organizations and if communication is an issue. Tim replied that the focus of CPTEA is the education of pharmacy technicians. CAPT is more of an advocacy group. One of the CAPT board members is a CPTEA person who provides the necessary communication between organizations. This is also useful since CAPT is moving towards expanding the availability of CE programs for pharmacy technicians. John asked about accreditation. Tim replied that CCAPP was actively involved in accrediting pharmacy technician programs in Ontario and across the country. NAPRA has developed competencies to practice for pharmacy technicians. Ginny stated that pharmacy technicians and pharmacy students at Dalhousie University are integrated in some of their labs. CPTEA consists of about 40 – 50 individuals and the annual meeting is usually held each year towards the end of June. Discussion then occurred on the potential to hold a joint meeting of the two conferences, AFPC and CPTEA. Tim stated that there are at least 100 thousand of various types of pharmacy technicians in Canada. Of these, Ontario now has 6 thousand who are qualified to write the PEBC exam. Ontario is currently the only province with regulation of pharmacy technicians.

Nancy noted that another area for potential collaboration was the Blueprint for Pharmacy and Ginny stated that she was taking the Blueprint implementation documents to the upcoming annual general meeting of CPTEA. Discussion then continued around the opportunity for having a joint conference – timing and topics. It was agreed that all organizations would share their newsletters as we continue to pursue the prospect of future collaborations and interactions. Discussions then concluded with a description of AFPC activities to revise the educational outcomes for entry to practice.

4.3 Educational Outcomes Project: Nancy Winslade provided an update of task force activities, the most recent meeting having taken place at the College of Pharmacy on the Dalhousie campus on June 2, 2009. Task force members were Tom Brown (Toronto), Terri Schindel (Alberta) and Nancy Winslade (Waterloo). Claude Mailhot (Montreal) was ill and unable to attend. Nancy reviewed the mandate for the task force and noted that they had started with the BSc program and aligning educational outcomes with the minimum practice competencies to be met. Nancy stated that she had been a contractor to NAPRA in revising the Model Standards of Practice that are soon to be released. Nancy stated that the 2009 version definitely includes the emerging scope of practice models for pharmacists. She also noted that most pharmacists are already educated to provide these services. The task force group is still struggling with identifying differences between the Bachelor's and the entry level Pharm D program, but are committed to meeting the wishes and mandate of Council. The concept of one educational outcomes document to support entry to practice was again discussed. It is the intent of the task force group to have a draft document available for the Deans of Pharmacy annual meeting in the fall.

4.4 Insurance for Council and Executive: Simon and Frank described the action taken following the midyear meeting in Montreal where a decision to purchase Directors and Officers Liability Insurance was made. The insurance was purchased through Aon Reed Stenhouse Inc. a company working with Volunteer Canada to supply insurance to not for profit organizations enrolled in Volunteer Canada.

5. Committee Reports

5.1 Awards Committee: Mary presented the details of her extensive report mentioning that the awards competition, in terms of the number of applicants and the timing of the review process, had been relatively good in 2009. Discussion took place regarding the Canadian Foundation for Pharmacy – AFPC Graduate Student Award for Pharmacy Practice-Based Research. This was a new award that was sent out separately to the awards book at the wishes of the Foundation to support the award in 2009. After the award was sent out, a letter to AFPC was received from the Canadian Pharmacy Practice Research Group suggesting that the criteria for eligibility for the award was not sufficiently focused on pharmacy practice based research. CFP subsequently had some concerns with the wording of the award. Other suggestions that had been received were to include undergraduate students in the competition for this award.

AFPC also learned that applications were limited by the fact that the award stipulated that applicants must be graduate students at the time of application. Recent graduates were therefore eliminated from the competition. Mary and Frank were to work on revising the wording of the award to best meet concerns expressed over the award focus, yet still encourage a broad base of graduate students in pharmacy practice research to apply. Other recommended changes to awards included adding students who are in pharmaceutical sciences programs in AFPC Faculties to be eligible for the Merck Frosst Canada Ltd Postgraduate Research Fellowship Award. Mary presented a draft version of a potential new award for innovation in education and discussion occurred around the amount of materials to be submitted in support of an application for this new award. A draft version of the revised and renamed special service award was also presented by Mary. The midyear meeting in 2010 will be used to seek approval for the description of these new awards. Moved/seconded by Mary/Bev that the report of the awards committee be accepted for approval at the AGM. Carried.

5.2 Bylaws Committee: Simon presented the report on behalf of the executive. Having Corporations Canada accept the revised Bylaws in 2008, no new changes are contemplated or being worked on this year. Moved/seconded by Simon/John that the report of the Bylaws committee be accepted. Carried.

5.3 Communications Committee: Dan presented the report and spoke to the translation work carried out by students that was complete as of May 2009. Total charges for this work were less than one thousand dollars. He asked the question of whether we want to continue this process of having pharmacy students paid to do the translation. Dan stated that students in Montreal and Quebec in their second or third year could be engaged each year in this task. Sylvie Marleau (Montréal) may be very helpful here. CAPSI representatives might also be considered for translation work. Following the discussion on translation, Dan reviewed the AFPC Newsletter, indicating dates and Faculties for upcoming spotlight articles as well as the content and format of the newsletter. Lastly, Dan and Simon spoke to the proposal from Graphically Speaking for revamping the AFPC web site. The major question was whether to proceed at this time given the quote from Graphically Speaking for the work. Simon was of the opinion that additional costs over and above the quote are also involved. Ingrid was not sure we should pursue web site development until a new Executive Director has been selected. Lalitha also felt that we should look to a long term solution. A resource person at the

University of Toronto might also provide a comparable web site redesign at similar or reduced costs. It was decided to look at other options prior to making a decision on the proposal from Graphically Speaking. Moved/seconded by Dan/Lalitha that the communications report be accepted. Carried.

5.4 Conference Planning Committee 2009: Mary stated that they were ready to go and gave thanks to other members of the Conference planning committee: Anne Marie Whelan and Harriet Davies (Co-chairs), Rita Caldwell, Corrine Tobin, Tannis Jurgens, Pollen Yeung, Susan Mansour, Elizabeth Foy, Kathy Walsh, Dianne Cox and Kate O'Brien who all made the event possible.

5.5 Conference 2010: Ingrid spoke to the conference theme of Dynamic Nature of Curriculum: Changing, Growing, Reforming. The conference program will include curricular mapping, program assessment, challenging boundaries, and roundtable hot-topics. Ingrid was to give a presentation on the 2010 Conference at the Awards Banquet on Friday June 5. Moved/seconded by Ingrid/Bev that the report be accepted. Carried.

5.6 Education Committee: Nancy Waite presented an extensive report from the education committee that outlined a significant number of committee activities that had taken place during the year. The report described the new terms of reference for the committee that had been agreed to at the AFPC midyear meeting in Montréal. New membership of the committee was recommended with the chairs of the upcoming and following year conference planning committees added along with 3 members of council. For the AFPC annual meeting a name change, approved at the midyear meeting, was recommended. Nancy made a motion to formally adopt the name change in order to take this to the Annual General Meeting. Moved/seconded by Nancy/Nese to rename the AFPC Annual Meeting to the Canadian Pharmacy Education and Research Conference and this would take effect for the 2010 meeting in Vancouver. Carried.

The report also contained recommendations regarding annual meeting themes, annual meeting format and opportunities to expand the conference audience to other pharmacy/healthcare educators. Moved/seconded by Nancy/Simon that the report of the education committee be accepted. Carried.

5.7 Nominating Committee: Simon presented the report of the committee noting how delighted he was that Lalitha Raman-Wilms (Council Member from the University of Toronto) had accepted the position of President Elect for 2009-10. Lalitha has been a major contributor to council initiatives for several years and most recently served as the Chair of the 2008 AFPC Conference held jointly with AACP in Chicago.

Renewed Council Members for 2009 – 2012:

Bev Allen of the University of Saskatchewan

Mary MacCara of Dalhousie University

Dan Thirion is stepping down from Council and AFPC awaits a decision from the Université de Montréal on who is to replace him.

Moved/seconded by Simon/Nancy that the nominations report be accepted. Carried.

5.8 PEP Canada Update: Nancy presented the report on behalf of Kelly Brink (Manitoba) and Wanda Spurrell (Memorial), co-chairs of PEP Canada. This report covered activities of PEP Canada since the midyear report of January 2009. PEP Canada made a presentation to the Deans at their midyear meeting in January and they are communicating with CSHP on experiential education in hospitals. The agenda items for the June 2-3 meetings in Halifax were also included. PEP Canada will present as part of the AFPC Conference in Halifax and will be attending the joint AFPC/ADPC meeting on June 4. Bev noted that he was happy to again be involved in PEP Canada activities and was looking forward to the joint meeting to be held on Thursday. Moved/seconded by Nancy/Bev that the report along with the midyear report be accepted. Carried.

5.9 Planning and Finance Committee: Roy spoke to the audited financial statements for 2008 in which an almost \$ 8,000 deficit was recorded. The loss on the joint conference in Chicago and the increased expenses for council and executive were a major factor in the deficit. Roy also presented the budget for 2009 in which a small surplus of \$183 is forecasted. Frank had provided notes for councilors on both the financial statements and the new budget. Nancy asked about the funding for PEP Canada and Frank spoke to the Deans not wanting AFPC to bill for their PEP representatives as part of the annual fee. AFPC would nevertheless cover their meeting room expenses. Roy stated that AFPC should be prepared to adopt a

policy of allocating its reserves and he would bring a proposal to council. Moved/seconded by Roy/Bev that both the audited financial statements and the 2009 budget be accepted. Carried.

5.10 Program Evaluation Committee: Committee chair, Ingrid, presented her report on behalf of the task force members. The report recapped the mandate of the task force, the progress made to date, and next steps for the committee. One of the priorities is the development of the program evaluation web site and Ingrid spoke to the proposal obtained from Graphically Speaking in Vancouver based on a guide for program evaluation provided by Ingrid. In the discussion that followed it was described as a timely project and one that should be moved along at a swift pace. Expectations for Ingrid on this project have been huge and we need to assist her in any way possible. Based on the price tag of almost \$ 14,000 for the web proposal, the question raised was whether we need to do the web site to this level? Is it the best use of our time and dollars? Perhaps we need to continue to develop the model and then make a decision as well as looking for a more cost effective way of providing the web site for program evaluation. The alternative is to send out binders to the individual Faculties containing the work accomplished to date. Other areas remaining to be developed could be sent out as an addendum to the first hard copy version. Questions were then raised about the amount of work needed to create the hard copies and when this might be complete. Is the end of summer of 2009 a realistic deadline? In the end it was recommended that a consultant, hired through Ingrid, be paid to help create the hard copies for the Faculties and to further investigate a web site version. Moved/seconded by Ingrid/Mike that the report be accepted. Carried.

5.11 Research Committee: John noted in the report that the priorities of the committee are the Research and Teaching databases on the web site and promotion of the basic science and practice-based research. In terms of the research database, there is still much to be accomplished with respect to cleaning up the directory and making modifications to research categories that would make searching the database that more effective. Dan suggested that council members at each of the Faculties could update the web site for their own Faculty. It was also suggested to use a librarian to design the terms for classification of the research categories. Moved/seconded by John/Simon for acceptance of the report. Carried.

5.12 Strategic Planning Committee: Roy presented a summary of the strategic priorities identified at the midyear meeting. The report describes the new actions and issues and the

current status for each of the priorities. Moved/seconded by Roy/Frédéric that the report of the strategic planning committee be accepted. Carried.

6. Reports of Representatives to External Groups: Because of the remaining time available for the annual council meeting, Council voted to accept the reports received from the following individuals:

6.1	ADPC Representative	Linda Hensman
6.2	CCAPP	Susan Mansour/Carmen Vezina
6.3	CCCEP	Yvonne Shevchuk
6.4	CPhA Academic Board Member	Rita Caldwell
6.5	Canadian Pharmacy Practice Research Group	Nese Yuksel
6.6	PEBC	Lavern Vercaigne
6.7	Report on CSHP AGM 2008	Anne Marie Whelan
6.8	USP	Raimar Loebenberg

7. Executive Director's Report: Frank summarized his report by first of all thanking the Council and Executive for their strong support during the year and for helping move academic pharmacy in Canada forward. The report contained a summary of AFPC finances, a capsule summary of the joint conference in Chicago, the award winners for 2008 and information on upcoming conferences in Halifax (2009) and Vancouver (2010). AFPC activities involving awards, the Blueprint for Pharmacy initiative, communications and web site issues, education committee work, the educational outcomes project, PEP Canada and progress with program evaluation make up a large portion of the report. The report summarizes stakeholder interactions, new representatives to external committees and finishes with recent activities of ADPC. Three departing Deans are recognized for their contributions and three incoming Deans will be at the 2009 annual meeting of ADPC. At the end of this report, the Council and Executive held an **In Camera Session** regarding the Executive Director's performance and President Roy provided feedback to Frank.

8. Other Business

8.1 Role of pharmacy students during pandemics: Frank stated that he had a request from a Pharm D student at the University of Toronto about the participation of pharmacy students as health care workers during a pandemic.

9. Adjournment by 5:00 PM: Note: Please be prepared to attend a joint meeting with the Deans on Thursday June 4 in the Britannia Room of the Lord Nelson Hotel from 5:00 to 7:00 PM to deal with the Blueprint for Pharmacy Implementation recommendations.
Moved/seconded by Ingrid/Dan to adjourn. Carried.

Frank Abbott, Recorder.



AFPC

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

MINUTES
AFPC Annual General Meeting
Lord Nelson Hotel & Suites
Halifax, Nova Scotia
Thursday, June 4, 2009
Regency Ballroom
12:00 – 2:00 PM

- 1. Opening Remarks and Introduction of Council:** President Roy Dobson welcomed everyone to the annual general meeting and remarked how delighted he was to be back in Halifax. He spoke of the successful annual council meeting held the day previous and how the reports that you will hear today indicate that Council has enjoyed a very productive year. Roy then introduced members of Council: President Roy (Saskatchewan), Simon Albon (Past President - UBC), Mike Namaka (President Elect-Manitoba), Ingrid Price (UBC), Nése Yuksel (Alberta), Bev Allen (Saskatchewan), Silvia Alessi-Severini (Manitoba), Nancy Waite (Waterloo), Lalitha Raman-Wilms (Toronto), Dan Thirion (Montréal), Frédéric Calon (Laval), Mary MacCara (Dalhousie), John Hawboldt (Memorial) and Frank Abbott (Executive Director). Regrets: Linda Hensman (ADPC).
- 2. Approval of Agenda:** One item was added to the agenda – 7.9. Sharon Mitchell asked to speak on the Canadian Network for Simulation in Healthcare (CNSH). The amended agenda was approved on a motion from Nancy Waite and seconded by Yvonne Shevchuk. Carried.
- 3. Acceptance of 2008 Annual General Meeting Minutes, Sunday, July 20, 2008 in Chicago Illinois:** The minutes were approved on a motion from Mike Namaka and seconded by Nése Yuksel. Carried.
- 4. Greetings from AACP President, Dean Victor Yanchick:** Dr. Yanchick stated how pleased he had been to be invited as a speaker for the conference and to bring greetings from AACP to our annual general meeting. He noted that the joint conference of AACP and AFPC in Chicago in 2008 had been a very successful meeting for those in attendance and he hoped that we might hold a similar joint meeting in the near future. He spoke of issues of importance to AACP and noted that faculty resources is a major issue given the number of

new colleges of pharmacy that have recently opened. There are now 110 Schools of Pharmacy in the U.S. Programs of mentorship are a high priority for AACCP as are global initiatives in pharmacy education. Curriculum sharing and reform continue to be a main feature of activities and he noted the curriculum summit coming up in September in Scottsdale. Dr. Yanchick finished by inviting everyone to attend the 2009 AACCP Annual Conference and Meetings to be held in Boston in July. Roy thanked Dr. Yanchick for his remarks.

5. President's Address: Roy spoke fondly of his six years on Council and the valuable mentorship received from former council members in his own faculty who helped guide his participation in AFPC. He also noted the personal friendships that evolved during his time on AFPC Council and the pleasure that he had in working with such a dedicated group of individuals. Roy spoke of AFPC activities and achievements during the past year including a new award in the area of pharmacy practice, work to improve the web site, continuing work on program evaluation, the excellent work of the PEP Canada group, and the support by AFPC for the Blueprint for Pharmacy. Roy also mentioned the success of the joint meeting with AACCP in Chicago and congratulated Lalitha Rama-Wilms and her committee for their exceptional planning and also to the tremendous support received from AACCP. Roy welcomed Mike Namaka as incoming president and wished him every success for the coming year. In closing, Roy hoped all would enjoy this year's meeting in Halifax and urged everyone to attend next year's meeting in Vancouver. Moved by Roy and seconded by Bev Allen to approve the President's Report. Carried.

6. AFPC Committee Reports:

6.1 Awards Committee Report: Committee chair, Mary MacCara, presented her report that listed the award winners for 2009. She spoke briefly to the very recently introduced pharmacy practice research award sponsored by the Canadian Foundation for Pharmacy and indicated that changes in the wording were to be made based on feedback received. Changes had been made to the eligibility requirements of the Merck Frosst Canada Graduate Fellowship Award to allow graduates of pharmaceutical sciences programs within member Faculties to apply. The committee continues to work on an innovation award for pharmacy education and is tuning up the wording of a new special services award. Mary acknowledged the kind contributions made by the reviewers of awards for 2009. Moved by Mary and seconded by Nancy Waite to approve the Awards Committee Report. Carried.

6.2 Bylaws Committee Report: Committee chair, Simon Albon, reported on behalf of the committee that the recently revised By-Laws of AFPC had been accepted by Corporations Canada. No further business had been undertaken. Moved by Simon and seconded by Ingrid Price that the Bylaws Committee Report be approved. Carried.

6.3 Communications Committee Report: Committee member, Simon Albon presented the report on behalf of committee chair, Dan Thirion. Simon spoke to the new arrangements for hosting the web site and management of the site by the firm Graphically Speaking located in Vancouver. The French language mirror site has been brought up to date by pharmacy students hired to translate and upload the new information. This task is one of the more important functions of the communications committee. The AFPC research database is under review and the teaching expertise database will commence this year. Program evaluation guides and tools will be available on the web site once the development work is completed. Newsletter editor, Rebecca Law (Memorial), was thanked for her important contribution to AFPC communications and Council was delighted that she had agreed to continue in this capacity. Moved by Simon and seconded by Silvia Alessi-Severini to approve the report of the Communications Committee. Carried.

6.4 Conference Planning Committee 2009: Anne Marie Whelan spoke on behalf of co-chair Harriet Davies and thanked everyone for coming to Halifax to share in the program and to help make the 2009 AFPC Conference a success. Anne Marie gave special thanks to the program planning committee: Dianne Cox, Kate O'Brien, Kathy Walsh, Elizabeth Foy, Susan Mansour, Tannis Jürgens, Pollen Yeung, Mary MacCara, Corinne Tobin, Rita Caldwell and Frank Abbott.

6.5 Education Committee Report: Nancy Waite, committee chair, presented the report which detailed significant activity by the committee over the past year. New terms of reference for the committee were approved at the midyear meeting of AFPC in Montreal. A significant change for the committee was to provide guidance to the conference planning committee for the educational component of the annual conference. The education committee would contribute by identifying themes for upcoming conferences, suggest alternative delivery methods and research ideas for broadening the participating audience. To achieve this, the membership of the education committee would be increased to include the current and past chairs of the conference planning committees. A name change for the conference to the Canadian Pharmacy Education and Research Conference was approved by Council at the Annual Meeting on June 3 and the name change is to take effect for the 2010

meeting in Vancouver. This name change for the conference was included in the report of the education committee for approval at the AGM. Moved by Nancy and seconded by Leslie Lavack that the Education Committee report be approved. Carried.

6.6 Nominations Committee Report: Simon Albon presented the nominations committee report noting that Bev Allen (Saskatchewan) is taking on his first full 3 year term and Mary MacCara (Dalhousie) has been appointed for her second 3 year term. Dan Thirion (Montreal) is leaving Council because of teaching commitments and a replacement for Dan from Montreal is being sought. Simon noted Dan's involvement on Council and how he would be missed for his enthusiasm and leadership. Simon stated how pleased he was to have Lalitha Raman-Wilms (Toronto) accept the position of President Elect for 2009-10 and noted many of her previous contributions to Council including her chairing the 2008 annual meeting and conference in Chicago. Moved by Simon and seconded by Nése Yuksel that the report of the Nominations Committee be approved. Carried.

6.7 PEP Canada Report: Nancy Waite presented the report on behalf of PEP Canada Co-Chairs Kelly Brink (Manitoba) and Wanda Spurrell (Memorial). She spoke briefly of the presentation made to the Deans in Montreal at their midyear meeting and communications by PEP Canada with CSHP to explore means of enhancing experiential training in hospitals. A PEP Canada presentation on the new experiential program developed for the entry-level Pharm D program at the Universite de Montreal is part of the 2009 conference program in Halifax. PEP Canada will take part in the Blueprint for Pharmacy implementation strategic session that is to take place in Halifax later today. Moved by Nancy and seconded by Ingrid Price that the report of PEP Canada be approved. Carried.

6.8 Planning and Finance Committee:

2008 Audited Financial Statements: Roy Dobson presented the 2008 audited financial statements as chair of the planning and finance committee. He spoke to the reasons for the deficit based on the unusual costs and poor sponsorship of the annual conference held in Chicago. The value obtained by AFPC in terms of exposure and the positive interactions gained from AACP at the joint meeting justified the encountered deficit. Moved by Roy and seconded by Bev Allen that the audited financial statements be approved. Carried.

2009 Budget: Roy presented the budget for 2009 noting that we should be on track this year with respect to the conference. Funding for the educational outcomes project is included in the budget but expenses may be higher than anticipated. A small surplus is

budgeted for 2009. Moved by Roy and seconded by Lalitha that the 2009 budget be approved. Carried.

6.9 Program Evaluation Committee: Ingrid Price, committee chair, presented a progress report on the status of the program evaluation project. The report provides key elements of the project and lists progress since the July AGM in Chicago. Next steps include completing the overall guide in draft form, developing the web site for program evaluation and providing tools for evaluation on an “as needed” basis. Revisions to the program evaluation guide and tools will be made based on feedback from users. Moved by Ingrid and seconded by Nése that the report of the Program Evaluation Committee be approved. Carried.

6.10 Research Committee Report: John Hawboldt, chair of the committee, presented the report that discussed the current review of the research database and how experience gained with this exercise might then guide the preparation of the teaching database. The committee continues to be committed to the support of basic science and pharmacy practice based research. Moved by John Hawboldt and seconded by Sharon Mitchell to approve the report of the Research Committee. Carried.

6.11 Strategic Plan: Roy Dobson presented the strategic planning report. Five strategic areas were priorities for AFPC: program evaluation, funding, conference planning relative to the Mission of AFPC, web site development, and educational outcomes. The status of progress in each of these areas was reported. Moved by Roy and seconded by Ingrid Price to approve the strategic plan report. Carried.

7. Reports from Special Committees and Delegates

7.1 Academic Board Member of CPhA: Rita Caldwell (Dalhousie) provided an overview in her report of the Blueprint for Pharmacy and Moving Forward initiatives. The Canadian Pharmacy Practice Research Group (CPPRG) provides information through the *Translator* newsletter and the *Live Links* electronic publication. Work continues on trying to obtain free licenses to e-Therapeutics and e-CPS for each Canadian Faculty. Membership strategies are underway for CPhA and new membership opportunities have recently been announced for students. Moved by Rita and seconded by Bev Allen that the CPhA board member report be accepted. Carried.

7.2 Appointee to CCAPP: Susan Mansour (Dalhousie) presented the report. Carmen Vézina (Laval) is the other AFPC delegate to CCAPP. Susan noted that the CCAPP Board would be meeting on June 10-11. Site visits had been made at the University of Waterloo

and 10 pharmacy technician programs had been visited with 8 undergoing a further review. The pharmacy program at the University of Qatar was also site visited to give CCAPP international responsibilities. Development of accreditation standards for the entry to practice degree will continue with a focus on the Pharm D as the first professional degree in pharmacy. CCAPP has been collaborating with other health professions to develop standards for interprofessional health education. The CCAPP web site is being substantially updated. With David Hill recently appointed as Dean at the University of Saskatchewan, CCAPP is looking for a new Executive Director. Moved by Susan and seconded by Sylvie Marleau that the CCAPP report be accepted. Carried.

7.3 Appointee to CCCEP: Yvonne Shevchuk (Saskatchewan) presented her report. CCCEP is financially sound and will likely set a record for the number of programs accredited this year. The CCCEP board and executive have been working on the governance model. The report outlined many priorities for the coming year including updating of the web site. CCCEP has been working on developing an accreditation system for certificate programs in partnership with NAPRA. Dean Hindmarsh (Toronto) asked about Faculties accrediting their own continuing education programs and not having to use CCCEP for this purpose. Yvonne thought that the model whereby CPhA obtains recognition from CCCEP to accredit their own programs might be appropriate to the Faculty situation. Moved by Yvonne and seconded by Ingrid Price that the CCCEP report be accepted. Carried.

7.4 Association of Deans of Pharmacy of Canada (ADPC): ADPC representative Linda Hensman (Memorial) was unable to attend because of illness and she indicated that the report of the Executive Director would suffice for the ADPC report.

7.5 Canadian Pharmacy Practice Research Group (CPPRG): Nése Yuksel (Alberta) presented the report on CPPRG which outlined recent activities of this group to increase membership, advocate for PPR and communicate group activities. CPPRG provided AFPC feedback on the wording of the CFP/AFPC Graduate Student Award for Pharmacy Practice Research. Moved by Nése and seconded by Sharon Mitchell that the report on CPPRG be accepted. Carried.

7.6 Pharmacy Examining Board of Canada (PEBC): Lavern Vercaigne (Manitoba) presented his report that was supplemented by the March 2009 Update from the PEBC Board. Anne Marie Whelan (Dalhousie) joins Lavern as a representative of AFPC to the PEBC board. The number of new registrants in 2008 has increased to 1215 compared to 1113 in 2007. PEBC will begin Pharmacy Technician Evaluating Exams in the fall of 2009

and will pilot an entry to practice exam for pharmacy technicians in August of 2009 with the intent to make the Pharmacy Technician Qualifying Exam available at multiple sites as of the summer of 2010. The pharmacist qualifying exam parts I and II are under review by the committee on examinations. Moved by Lavern and seconded by Nancy Waite that the PEBC report be accepted. Carried.

7.7 Report on CSHP Annual General Meeting 2008: Anne Marie Whelan (Dalhousie) attended the CSHP AGM in St. John, NB and prepared a summary of the meeting. Moved by Anne Marie and seconded by Nése that the CSHP report be accepted. Carried.

7.8 United States Pharmacopoeia: Raimar Loebenberg (Alberta) could not be present at the AGM but presented a report that could be included in the proceedings.

7.9 Canadian Network for Simulation in Healthcare: Sharon Mitchell (Alberta) spoke briefly to the report. The CNSH was initiated as a priority of the Canadian Patient Safety Institute with funding from Health Canada. The intent of CNSH is to foster simulation as a means to educate interprofessional healthcare teams and to coordinate simulation efforts on a national basis. Priorities are developing relationships among simulation stakeholders, building capacity in the use of simulations, developing guidelines for simulation based practice, education and research, facilitating exchange of knowledge, and increasing the scope and appropriate use of patient-centred simulation. Moved by Sharon and seconded by Nese to accept the report on the Canadian Network for Simulation in Healthcare. Carried.

- 8. Report of Executive Director:** Frank Abbott spoke to the report and first thanked Council and the Executive for the tremendous support received throughout the year. Frank stated that there had been significant progress in 2008 but there is still much to achieve for AFPC. Financially, AFPC has some concerns with the decreasing support from our usual stakeholders but with pharmacists taking on a greater role in primary healthcare there appears to be a growing interest in supporting pharmacy in general. Frank spoke briefly about the conference in Chicago and how it had been such a wonderful opportunity to showcase many of the initiatives and accomplishments of pharmacy education in Canada. To follow up on the success of Chicago, the 2009 conference in Halifax is proving to be one of our most successful conferences in recent memory. Frank stated that the program planning group at Dalhousie University had been a delight to work with and congratulated them on the quality of the program, the large number of posters being presented, and the achieved attendance. Under awards, Frank thanked Mary MacCara for the outstanding job as awards committee chair. We were fortunate this year to have sanofi-aventis take up the previous AstraZeneca

New Investigator Research Award and we applaud the Canadian Foundation for Pharmacy in providing the new award for best publication in the area of pharmacy practice research. With communications, the transfer of the web site to a new company manager has been a bit painful and Frank apologized for some of the miscommunication that occurred relative to the conference information. The web site will be one of our priorities for this year. Frank then touched on the state of the educational outcomes project, the progress of program evaluation development and the excellent work of PEP Canada. On the Blueprint for Pharmacy both AFPC and ADPC are committed to the implementation plan and a meeting of the two organizations plus PEP Canada representatives will occur today to strategize the next steps to be taken with respect to the Blueprint. ADPC held successful meetings in September of 2008 at FIP in Basel and again in Montreal in January 2009 for the midyear. Frank paid tribute to three Deans who will soon be stepping down: Franco Pasutto (Alberta), Dennis Gorecki (Saskatchewan) and Wayne Hindmarsh (Toronto). While serving their terms, all three have made significant contributions to pharmacy education and research in Canada. They will certainly be missed. In conclusion, Frank noted that this upcoming term would be his last official year as Executive Director.

9. Appointment of Auditor, Wolrige Mahon LLP, Chartered Accountants, Vancouver:

Moved by Simon Albon and seconded by Nancy Waite to appoint Wolrige Mahon LLP, Chartered Accountants to perform the 2009 audit. Carried.

10 New Business: There was no new business.

11. Transfer of Presidency: Roy Dobson invited Mike Namaka to assume the position of AFPC president. Mike thanked Roy and the Council for their guidance and trust in supporting his presidency and pledged to continue with all the great initiatives that AFPC is currently engaged to enhance the quality of pharmacy education in Canada. Strategic planning was high on his list to determine the future goals for the organization and maintaining the transparency of AFPC activities was important to him. He was definitely looking forward to the year ahead.

12. Confirmation of Signing Authority: Moved by Roy and seconded by Simon that signing authority for the coming year be Mike Namaka, President, and Frank Abbott, Executive Director. Carried.

13. Adjournment: The meeting adjourned at 2:00 PM

Recorder: Frank Abbott, June 4, 2009.

Please note that full copies of reports will be included in the 2009 Proceedings of AFPC and will be posted on the web site: www.afpc.info

AFPC Annual General Meeting, Halifax, Nova Scotia, June 4, 2009
List of Attendees

Full Name	Affiliation
Abbott, Frank	The University of British Columbia
Ahmed, Abeer	Memorial University
Albon, Simon	The University of British Columbia
Alessi-Severini, Silvia	University of Manitoba
Allen, Bev E.	University of Saskatchewan
Alshamsan, Aws	University of Alberta
Binette, Marie Claude	University of Montreal
Boucher, Nina	Laval University
Brink, Kelly	University of Manitoba
Brown, Graham	University of Saskatchewan
Caldwell, Rita	Dalhousie University
Calon, Frederic	Universite Laval
Chambers, Mark	Dalhousie University
Choquette, Tania	Université de Montréal
Cox, Cheryl	University of Alberta
Cox, Dianne	Dalhousie University
Crawley, Ginny	Nova Scotia Community College
Davies, Harriet	Dalhousie University
Davis, Christine	University of Manitoba
Deal, Heidi	Dalhousie University
Dobson, Roy	University of Saskatchewan
Ferreira, Ema	Universite de Montreal
Fleming, Tim	Welland Ontario
Gorecki, Dennis	University of Saskatchewan
Gregoire, Jean-Pierre	Universite Laval
Guirguis, Lisa	University of Alberta
Harb, Diala	University de Montreal
Hill, David	Canadian Council for Accreditation of Pharmacy Programs
Hindmarsh, Wayne	University of Toronto
Jetha, Shirin	Ontario College of Pharmacists
Kielly, Jason	Memorial University
Krahn, Murray	University of Toronto
Lavack, Leslie	University of Toronto
Law, Rebecca	Memorial University of Newfoundland
Lee, Annie	University of Toronto
Lordkipanidze, Marie	Universite de Montreal
MacCara, Mary	Dalhousie University
Mansour, Susan	Dalhousie University

Marleau, Sylvie	Universite de Montreal
Meek, Warren	Canadian Pharmacists Association
Mitchell, Sharon	University of Alberta
Pasutto, Franco	University of Alberta
Pharand, Chantal	University of Montreal
Pinier, Maud	University of Montreal
Price, Ingrid	The University of British Columbia
Pugsley, John	PEBC
Rachid, Ousama	University of Manitoba
Raman-Wilms, L.	University of Toronto
Shevchuk, Yvonne	University of Saskatchewan
Sindelar, Robert	The University of British Columbia
Sponagle, Kim	Dalhousie University
Thiessen, Jake	University of Waterloo
Trenaman, Shanna	Dalhousie University
Turcotte, Dana	University of Manitoba
Vercaigne, Lavern	University of Manitoba
Waite, Nancy	University of Waterloo
Walsh, Kathy	Dalhousie University
Whelan, Anne Marie	Dalhousie University
Yanchick, Victor	Virginia Commonwealth University
Yuksel, Nese	University of Alberta

Original with signatures is on file in the AFPC Office.



AFPC

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

**MINUTES
AFPC NEW COUNCIL MEETING
LORD NELSON HOTEL & SUITES
VANGUARD ROOM 2
SATURDAY, JUNE 6, 2009
9:00 AM – 12:00 NOON**

1. **Opening Remarks:** President Mike Namaka welcomed everyone to the meeting and expressed his wishes for a successful year ahead. Special welcome to Mary MacCara for her second term as a council member and to Bev Allen who begins his first full term as a council member having previously replaced Roy Dobson when he became President Elect. Special welcome also to Lalitha Raman-Wilms as she begins her term as President Elect. Sylvie Marleau was recognized as the councilor pro tem from the Université de Montréal in replacement for Dan Thirion until he is able to resume his duties on Council.
2. **Roll Call and Approval of the Agenda:** Present and accounted for: Mike Namaka (President, Manitoba), Roy Dobson (Past President, Saskatchewan), Lalitha Raman-Wilms (President Elect, Toronto), John Hawboldt (Memorial), Mary MacCara (Dalhousie), Frédéric Calon (Laval), Sylvie Marleau (Montreal), Nancy Waite (Waterloo), Silvia Alessi-Severini (Manitoba), Bev Allen (Saskatchewan), Nese Yuksel (Alberta), Ingrid Price (British Columbia) and Frank Abbott (Executive director). Regrets: Linda Hensman (ADPC representative). A new representative from the University of Toronto will need to be selected to sit on council in place of Lalitha Raman-Wilms.
Moved by Roy Dobson and seconded by Bev Allen that the revised agenda for the meeting be approved. Carried.
3. **Appointments and Charges to Committees**
 - 3.1 **Awards Committee:** Mary is to continue as chair with Frédéric and Lalitha as committee members. Charges to the committee include the rewording of the Merck Frosst Post Graduate Fellowship Award to include candidates that are enrolled in a pharmaceutical

sciences degree program. This will appropriately expand the eligibility for the fellowship award. Revision of the wording pertaining to the eligibility of candidates for the new award sponsored by CFP will be made to respond to the suggestions made by the CPPRG. Approval for continued funding will then be sought from CFP. Some concerns were raised about candidates for the Pfizer research career award but following discussion, no changes were recommended. Sylvie recommended that the Wal-Mart Future Academic Career Award winners be given tasks as part of the conference to demonstrate their leadership qualities. This suggestion received general approval from Council. Because there can never be enough reviewers of awards, each councilor was asked to be responsible for getting two reviewers for awards from their respective Faculties each year. Nese suggested that council members be reminded to do this early in the fall. Work is to continue on the innovation in education award to be brought to the midyear and to implement the newly worded special service award. Some discussion took place around providing retiring council members with a special pin or paper weight as acknowledgement for their time on AFPC Council.

3.2 Bylaws Committee: Roy is to chair the committee with the executive serving as members. Charges: to review the Bylaws for potential change.

3.3 Communications Committee: Silvia kindly agreed to chair this committee given the absence of former chair Dan Thirion: Frédéric is to contribute as a committee member and Simon Albon, former Past President and communications committee chair will contribute as well, given his recent work with Graphically Speaking. Rebecca Law has agreed to continue as editor of the newsletter. Charges for the communications committee include working with the research committee to revise and update the research data base. Development of the teaching database should commence this year as well. Translation of key documents should be a priority. Frédéric and Sylvie are to assist by organizing students who have French as a first language to undertake the translations for a set fee. Access to the French web site will be available to Frédéric and Sylvie in order to facilitate the translation and subsequent posting. The need to update the web site is a critical issue but the quote from the current web site manager may need financial planning to provide the go ahead. Lalitha offered to contact the IT person at U of T regarding costs for both the update of the web site and the design of the program evaluation web site. Discussion regarding the potential for web casting of the annual conference took place with the thought to provide needed CE units to faculty. It was

suggested that the Education Committee take charge of the need or opportunity for web casting.

3.4 Conference Planning Committee 2010: The event is to take place June 2-5, 2010 at the River Rock Resort. AFPC will be meeting jointly with CSPS. Charges: Ingrid and Simon are to co-chair the planning committee: There is a strong feeling of council that we continue to facilitate interest by stakeholders in our conference. The pharmacy technician educators association should be encouraged to attend and we should be prepared to offer some free registrations. Topics that would appeal to CPTEA should also be considered for the program. Sylvie and Frédéric suggested that the graduate students be given a parallel session in order for them to get to know each other. This might also involve the poster session. It was emphasized that poster judges need to know the routine for the judging of the posters well before the conference. To accommodate council members, it was recommended that Thursday June 3 be the poster day for AFPC posters. The suggested theme for the conference is the Dynamic Nature of Curriculum. The two major areas are Changes in the Profession that Impact Education and Curriculum Theory.

3.5 Conference 2011: The location has yet to be selected for the 2011 conference. Winnipeg was a suggested site. A choice will need to be made by the midyear meeting in 2010.

3.6 Education Committee: Nese will take over the chairperson role for the education committee. Nancy Waite will continue to serve on the committee. Other members include Ingrid, chair of the 2010 Conference and the yet to be named chair for the 2011 conference. Silvia is a logical choice if the meeting is to be held in Winnipeg. Sylvie offered to serve as a committee member to provide the recommended committee membership. Charges: Nancy suggested the following items: The committee continue to develop relationships with the pharmacy technician educators group. The committee can provide support for the teaching database project. The change in name of the conference to CPERC (Canadian Pharmacy Education and Research Conference) should be implemented. The committee must continue to be involved with the current educational outcomes review.

3.7 Executive Committee: Mike will chair with other members of the executive serving on the committee. Charges: strategic plan, blueprint implementation, dealing with

educational outcomes documents, confirming the 2011 AGM, connections with stakeholder groups and the Executive Director Search.

3.8 Fund Raising Committee: Mike will chair with the remaining executive as members.

Action: Frank is to send Mike a letter that he might use to fund raise through his unique connections at the University of Manitoba.

3.9 Nominating Committee: Roy will serve as chair and be supported by the executive.

Frank was to contact Dean Wayne Hindmarsh for a replacement for Lalitha.

3.10 PEP Canada Special Interest Group: Bev Allen will act as our main link to PEP

Canada. Harriet Davies (Dalhousie) and Wanda Spurrell (MUN) are the current PEP Canada co-chairs. Charges: Provide a report for midyear and annual meetings. Progress on the blueprint for pharmacy initiatives will be required.

3.11 Planning and Finance Committee: Bev will take over as chair of the planning and

finance committee with former chair Roy Dobson continuing to serve on the committee. Roy was thanked by council for his leadership and past commitment to this committee. Roy presented a proposal to create several financial reserve categories to support strategic objectives of AFPC. Bev supported this concept based on his personal experience with health management companies. After some discussion it was suggested that the surplus be designated by council, the reserve being a virtual designation. Charges: Council will need a formal proposal on the financial reserves for the midyear.

3.12 Program Evaluation Committee: Ingrid is to continue as chair and be supported by

several AFPC representatives who are integral to their Faculty's program evaluation initiatives. Charges: Ingrid is to work on providing a hard copy of the guide and tools to the Deans by this fall. Committee members are to review the document prior to sending to the Deans. Once this work is completed, finances will be reviewed with the intent of deciding on the web site proposal as a means to assist Faculties or to have onsite visits by Ingrid to assist Faculties that need help with implementing effective program evaluation.

3.13 Research Committee: John will continue to chair the committee with support from

Frédéric and Sylvie. Yvonne Shevchuk (Saskatchewan) who is on the board of CPPRG will be the pharmacy practice resource person. Mary will serve as the liaison person for awards. Charges: Revising the research database is a priority. John stated that he had emailed the librarian at Memorial to help out with the database. Nese asked if the teaching database work could be carried out at the same time. Frank offered to send updated lists of faculty members for each of the ten Faculties to the committee in order to

facilitate the database project. The committee should also participate in the planning of a graduate student research forum as part of the upcoming conference.

3.14 Strategic Planning Committee: Mike will serve as chair with support from the executive. Roy offered to send out information sheets prior to the midyear meeting and priorities could be decided by email.

4. Confirmation of AFPC Representatives, Delegates and Council Member Assignments

4.1 ADPC Representative: To be determined at the next ADPC meeting in October.

4.2 Canadian Council for Accreditation of Pharmacy Programs (CCAPP): Susan Mansour has agreed to a second term on the board. Approved by council.

4.3 Canadian Council for Continuing Education in Pharmacy (CCCEP). Yvonne Shevchuk to be asked to continue to serve.

4.4 Canadian Pharmacy Practice Research Group (CPPRG): Nese will communicate CPPRG activities.

4.5 Communications Editor: Rebecca Law has agreed to continue in this capacity.

4.6 Pharmacy Examining Board of Canada (PEBC): Lavern Vercaigne and Anne Marie Whelan are the AFPC representatives.

4.7 United States Pharmacopoeia representative: Raimar Loebenberg will continue to serve.

4.8 Other Appointments: Canadian Patient Safety Institute - Implementation Advisory Committee for the Safety Competencies: Andrea Cameron, University of Toronto, has agreed to act as the AFPC representative.

5. Business arising from the June 3, 2009 Council Meeting and June 4, 2009 AGM

5.1 Educational Outcomes Task Force: Nancy Winslade had asked for discussion by council and to provide her feedback for the task force group. Lalitha Raman-Wilms kindly provided a summary of our discussions and they are paraphrased here. The change from a BSc in Pharmacy to a Pharm D degree program will include significant changes within the curriculum, in addition to the expanded experiential component in the final year. It was felt important to clarify with Nancy Winslade that the change from the BSc to a Pharm D program is much more than a simple increase in the 4th year experiential. Council would like one document which outlines the educational outcomes for entry-to-practice. Council had previously agreed upon one document; however, we

initially wanted differences in outcomes/levels for the BSc and ELPD degrees outlined in this document. The change to an educational outcomes document for entry-to-practice is based on the fact that ADPC/AFPC had a meeting on June 4, 2009 where a recommendation was made that all schools in Canada move towards an entry-level Pharm D program with a timeline of 10 years. A statement to this effect for public consumption was to be drafted by David Hill and sent to the Deans for approval; Prior to this agreement by the Faculties and Deans on the entry to practice degree, the work of the task force would not have been easy to do. We still require levels and ranges clearly outlined within the document. With respect to the process, once the task force develops a draft of the outcomes, these need to be sent to AFPC Executive/Council for review; the Director/Executive will then decide on how best to disseminate the draft document widely for comments. Frank was to provide this information to Nancy Winslade at the earliest opportunity.

6. New Business

6.1 Search for Executive Director: The documents that were prepared with the help of Anne Marie Whelan (Dalhousie) prior to the Chicago meetings in 2008 are to be circulated by Frank to the Executive and search committee. The committee is to consist of Roy, Mike, Lalitha, the ADPC representative and a member of council. Frank felt that we needed the input of the Deans group prior to sending out the ad.

6.2 Global Alliance for Pharmaceutical Education. Frank had circulated a concept paper from AACCP with respect to establishing a global alliance for pharmaceutical education for purposes of networking and sharing of resources. Frank asked council whether AFPC would endorse the concept and approval by council was obtained. Frank was to transmit this information to AACCP executive vice president Lucinda Maine.

6.3 Confirmation of Date and Time for Mid-year Meeting, The meeting is to be held in Toronto during late January or early February, 2010.

6.4 Confirmation of Date and Time for 2010 Conference: Vancouver, June 2-5, 2010.

6.5 Confirmation of Date and Time for 2011 Conference: Working on Winnipeg.

7. Adjournment: 12:35.

Respectfully submitted,
Frank Abbott, recorder.

PART 3



**REPORTS OF AFPC
STANDING COMMITTEES,
REPRESENTATIVES AND
DELEGATES**

2009

Association of Faculties of Pharmacy of Canada
Annual General Meeting
June 4, 2009
Halifax, Nova Scotia

President's Report

Two and a half years ago I was approached to be the President-elect of AFPC. At the time I remember feeling both honoured and humbled. Honoured that my colleagues and peers thought well enough of me to nominate me to this position, and humbled in comparing myself to those who had preceded me. Many amazing individuals have held this position and I have had the privilege of work with some of them.

When I joined the AFPC Council in July 2003 as the University of Saskatchewan representative, I already had some sense of how special my time on Council was to be based mostly on conversations with those who had served on Council before me, most notably Yvonne Shevchuk and Fred Remillard. My own experience with the AFPC Executive and Council only served to confirm what Yvonne and Fred told me; that I would be joining a group of hard working and talented people, selflessly striving to enhance the quality of pharmacy education in Canada. They also warned me that I'd better be prepared to pitch in, and that I'd better not take on the position if I wasn't prepared to make the same commitment. I hope I haven't disappointed them. I also want to thank them now for their support and mentorship over the past 6 years.

Since joining Council, I've had the privilege of working with some really great people. Often we worked with limited resources and little time; yet, the important business of AFPC continued to be done. I want to thank all of you for your contributions to AFPC and the support you have given to me. I have also come to count many of you as personal friends, and these friendships stretch right across this country. Without my involvement with AFPC, first as a Council member then as a member of the Executive, I am not sure these friendships would have developed. This is perhaps the greatest personal legacy I will take with me when I leave Council next year.

In presenting my report to you today I would like to note some of the significant accomplishments of AFPC over the past year, as well as some of our future challenges and opportunities.

Awards: AFPC continues to work with its many partners to enhance our existing awards and to develop new awards to better recognize the contribution of our members. This year, under the capable leadership of our Awards Chairperson, Mary MacCara and our Executive Director, Frank Abbott, we introduced a new award, the CFP-AFPC Pharmacy Practice Research Award, and we are actively developing another award to recognize Innovation in Pharmacy Education,. This would be in addition to the AFPC Bristol-Myers Squibb National Award for Excellence in Education.

AFPC Web-site: A new website management company, Graphically Speaking (www.graphicallyspeaking.ca), was hired in November 2008. Some aspects of the website still require some work, but we are working with Graphically Speaking to ensure these changes will come about in a timely manner. As of May 15th 2009, work has been completed on a number of features of the French Mirror Site, including translation of all website and website related pages. A plan for maintaining translation of the website is needed and will remain a priority for AFPC.

Program Evaluation: Under the leadership of Ingrid Price, the Program Evaluation project continues to move forward. The initial program evaluation toolbox has been completed, and additional work is ongoing to enhance the tool and materials already assembled. As individual faculties move forward with their own program evaluation processes, and begin to use the program evaluation guides and the tool components, AFPC will continue to add to the resources available on our web-site and to facilitate the uptake of these materials by the faculties.

PEP Canada: Over the past year, under the leadership of Wanda Spurrel (Memorial) and Kelly Brink (Manitoba), PEP Canada continued its important work to enhance experiential learning across Canada. Harriett Davies (Dalhousie) is replacing Kelly who stepping down as co-chair. On behalf of AFPC, I would like to thank Kelly for all her hard work. A major issue for the group is finding adequate experiential training sites within healthcare institutions and the issue of interprofessional education and training.

Blueprint for Pharmacy: As part of our effort to support the implementation of the Blueprint for Pharmacy, AFPC is working in consultation with our many Pharmacy partners. Consultations with various stakeholders are underway, including meetings here in Halifax, both prior to and during our conference this week.

The Joint AFPC/AACP Conference: Finally, I would be remiss if I failed to acknowledge the great success of our joint meeting with AACP last year in Chicago. Our joint meeting July 2008 was certainly a highlight for those of us fortunate enough to attend. The success of that meeting was due in no small measure to the hard work of our Conference Planning Committee headed by Lalitha Raman-Wilms along with Zubin Austin and Andrea Cameron (Toronto) and Nancy Waite (Waterloo), and the great support we received from our AACP colleagues, with a special thank you to Lucinda Maine, Executive Vice President AACP

In Closing, let me once again thank the AFPC Executive and Council. Any success we achieved during my time as President is because of you and your commitment to AFPC. I would like to welcome Mike Namaka as your President for 2009-2010, and I wish him every success. I know Mike will be an excellent leader for our organization and I look forward to supporting him in my new role of Past-president.

Finally, I want to thank our Executive Director, Frank Abbott. As you may or may not know, Frank will be stepping down as the Executive Director next year in Vancouver. Frank, I honestly don't know what we would have done without you. It has been a real honour to work with you and my only consolation is that I will be leaving Council with you. We will surely find someone to take over for you and I am sure that person will do an excellent job, but, Frank, you are irreplaceable.

To the membership, enjoy this year's meeting and plan to join us again next year in Vancouver. Between now and then, look for ways to be more involved with AFPC and its many important works. And if you are already involved, look for ways to get others in your faculty involved; there is much important work still to be done.

Respectfully submitted,

Roy Dobson, PhD
AFPC President (2008-2009)
June 4, 2009

Awards Committee Report
AFPC Annual General Meeting
Thursday, June 4, 2009

Awards Committee Members: Frédéric Calon, Lalitha Raman-Wilms, Mary MacCara

1. Awards for 2009:

Award	Award Recipients
Merck Frosst Canada Inc. Postgraduate Pharmacy Fellowship Award	Antonia Tsallas University of British Columbia
AFPC-Sanofi-Aventis New Investigator Research Award	Afsaneh Lavasanifar University of Alberta
AFPC Bristol-Myers Squibb National Award For Excellence In Education	David Gardner Dalhousie University
The AFPC-Pfizer Research Career Award	Murray Krahn University of Toronto
GLAXOSMITHKLINE / AFPC Graduate Student Research Award	Carl Julien Université Laval
CFP-AFPC Pharmacy Practice Research Award	Marie Lordkipanidzé, Université de Montréal
Wal-Mart Canada/AFPC Future Academic Leader Award	Nina Boucher Université Laval Jason Kielly Memorial University Judith Fisher University of Toronto Diala Harb Université de Montréal Marie Lordkipanidzé Université de Montréal Shanna Trenaman Dalhousie University
AFPC-Pharmacy Student Research Poster Awardees Best Poster Award (2)	See list that follows To be awarded, June 5, 2009.
Whit Matthews Graduate Student Poster Award	To be awarded, June 5, 2009.

**AFPC-PHARMACY RESEARCH POSTER AWARDS 2009 / 2009 PRIX DE LA AFPC
POUR LA RECHERCHE EN PHARMACIE**

Dalhousie University:

Mark Chambers

Supervisor: Mary MacCara and Elizabeth Foy

“Updating online pharmacy resources: Moving the Drug Information Resources (DIR) and Internet Tutorial for Pharmacists (ITP) websites forward”

Memorial University of Newfoundland:

Abeer Ahmed

Supervisor: Mohsen Daneshtalab

"Design and Syntheses of Benzoquinolines as Potential Topoisomerase Inhibitors".

University of Alberta:

Aws Alshamsan

Supervisor: Dr. Ayman El-Kadi and Dr. Afsaneh Lavasanifar

“Tumor apoptosis after STAT3 knockdown by nano-sized siRNA complexes.”

University of British Columbia:

Charles Au

Supervisor: David Grierson

"Synthesis of novel C8-substituted purine derivatives and their connection to PRMT6: a search for anti-HIV molecules."

Université Laval:

Étienne Audet-Walsh

Supervisor: Chantal Guillemette

“Genetic factors affecting the *in vitro* metabolism of the pure antiestrogen fulvestrant (Faslodex[®])”.

University of Manitoba:

Ousama M. Rachid

Supervisor: Keith Simons

“Assessment of the Bitter Taste of Epinephrine and Masking Effects of Non-Medicinal Ingredients Using an Electronic Tongue”

Université de Montréal:

Maud Pinier

Supervisor: Jean-Christophe Leroux

“Polymeric Binders: a new approach for the «control» of celiac disease”

University of Saskatchewan:

Graham D. Brown

Supervisor: Adil Nazarali

“siRNA-induced down-regulation of matrix metalloproteinase-25 inhibits palatal fusion during mouse secondary palate development”

University of Toronto:

Kelvin KW Hui

Supervisor: Jeffrey Henderson

Abstract title: "Molecular mechanism of neuroprotection mediated by immunophilin ligands"

2. New Award: CFP-AFPC Pharmacy Practice Research Award.

We are very pleased to have the Canadian Foundation of Pharmacy as the sponsor for a new award to recognize research in pharmacy practice by graduate students. The award was announced in March, 2009, and CFP requested that it be awarded for the first time at our 2009 Annual Meeting and Conference. The timeline was short, but we have a worthy first recipient. AFPC now has two awards to recognize research publications of graduate students and this is good news. Several concerns have surfaced regarding eligibility criteria and the Awards Committee is presently working on these. Many thanks to Frank Abbott for his help in getting this award launched.

3. Recommended Changes to Awards

Merck Frosst Canada Postgraduate Research Fellowship Award – Given our changing programs, it is recommended that we expand the eligibility requirements for this Fellowship to include candidates who have a bachelor's degree in **pharmaceutical sciences** or are in the final year of such a program. Current requirements focus on candidates entering graduate programs with a bachelor's degree in pharmacy.

4. New Award Recognizing Innovation in Pharmacy Education

The Committee is working on developing criteria and obtaining a sponsor for a new award to recognize significant innovations in teaching, learning and/or assessment by AFPC members. It will differ from the AFPC Bristol-Myers Squibb National Award for Excellence in Education, which recognizes along with innovation, longstanding excellence and leadership in education.

5. AFPC Special Service Award

The Committee is pleased to have developed guidelines for the selection of AFPC members to be recognized for the exceptional service which they have provided to AFPC. We believe it is important to remember our founders, for the special service which they have provided to our organization, and have recommended this award be known as the **AFPC Woods - Hughes Special Service Award**. The Committee acknowledges the help of Simon Albon in the development of these guidelines (see draft attached).

6. Acknowledgement of Reviewers.

Thirty-two AFPC members (names provided below) participated as reviewers of awards this year. The help of these reviewers is very much appreciated.

Respectfully submitted,



Mary MacCara, Pharm D
Chair, AFPC Awards Committee

AFPC Woods - Hughes Special Service Award (Draft)

The AFPC Executive and Council instituted an award in 1992 to be presented to an individual or group of individuals, who are current or past AFPC members, and who have provided exceptional service to the Association.

The Award is named for two of the founding members of the Association of Faculties of Pharmacies of Canada (AFPC). Dean Esli L. Woods was the first Chair of the Canadian Conference of Pharmaceutical Faculties (CCPF), which later became AFPC, and Dr. F. Norman Hughes was the first secretary of CCPF. Dean Woods served as Chair from 1944-1946 and Dr. Hughes was secretary from 1944-1949 and Chair, in 1952 and 1970. (Information from: *Celebrating our Heritage: A History of the Association of Faculties of Pharmacy of Canada, the First Fifty Years 1944-1994. Edited by Bernard E. Riedel and Ernst W. Steib*).

Eligibility/Criteria

All AFPC members are eligible for this award. Past long-standing members who have contributed significantly to the organization may also be considered.

To have provided exceptional service, the AFPC member will be recognized as having provided outstanding contributions and/or leadership in a number of ways. These can include (but not be limited to):

- Serving the membership through ongoing AFPC endeavors (e.g., newsletter, website development, conference organization, etc.)
- Serving as an officer of AFPC (e.g., councilor, executive member, executive director)
- Chairing AFPC Committees including significant AFPC initiatives (e.g., development of educational outcomes for the Bachelor of Science in Pharmacy and Entry-Level Pharm D Programs)
- Representing AFPC on national initiatives, external to council affairs (e.g., Moving Forward, Blue Print for Pharmacy)
- Representing AFPC on national pharmacy organizations (e.g., NAPRA, PEBC, CCAPP)

Exceptional service can also be recognized as providing an outstanding contribution and/or leadership in a single position or initiative.

Exceptional service usually occurs over several years, but depending on the service, it may occur within a one year period.

Selection Process for the Award:

The AFPC Executive and Council members will bring forward names of candidates and a listing of their contributions to AFPC, at the Midyear meeting. If a worthy candidate is agreed upon, the Executive Director or President will notify the recipient. Generally only one Special Service Award will be awarded in a given year; in exceptional circumstances, up to three may be awarded. As the award is based on exceptional service, it may not be awarded every year.

Award Presentation:

Award winners should be recognized with appropriate fanfare. A plaque or framed certificate will be presented by the President at an event during the Annual Conference (i.e., Awards Banquet or Annual General Meeting). At this time a synopsis of the recipient's contributions to AFPC over the years will be read. This synopsis will also be published in the AFPC Newsletter and on the website.

Award Reviewers for 2009

Badea, Ildiko	University of Saskatchewan
Bajcar, Jana	Sunnybrook Health Sciences Centre
Beazely, Michael	University of Waterloo
Bendayan, Reina	University of Toronto
Blackburn, David	University of Saskatchewan
Cameron, Andrea	University of Toronto
Cox, Cheryl	University of Alberta
Di Paola, Thérèse	Université Laval
Drolet, Benoit	Université Laval
El-Aneed, Anas	University of Saskatchewan
El-Kadi, Ayman	University of Alberta
Gong, Yuewen	University of Manitoba
Gu, Xiaochen	University of Manitoba
Jakeman, David	Dalhousie University
Jamali, Mo	University of Alberta
Kroll, Ed	University of Saskatchewan
Lavasanifar, Afsaneh	University of Alberta
LeClair, Grégoire	Université de Montréal
Lavack, Lesley	University of Toronto
Mallet, Louise	Université de Montréal
McIntosh, Alan	University of Manitoba
Metge, Coleen	University of Manitoba
Seubert, John	University of Alberta
Sheehan, Nancy	Université de Montréal
Simard, Chantale	Université Laval
Siraki, Arno	University of Alberta
Sketris, Ingrid	Dalhousie University
Soon, Judith	University of British Columbia
Velazquez, Carlos	University of Alberta
Wang, Lili	Memorial University of Newfoundland
Wettig, Shawn	University of Waterloo
Williamson, David	Université de Montréal

**Association of Faculties of Pharmacy of Canada
Bylaws Committee Report
AFPC AGM June 4, 2009 – Halifax NS**

Bylaws Committee Members:

Dr. Linda Hensman (ADPC)

Dr. Roy Dobson (President)

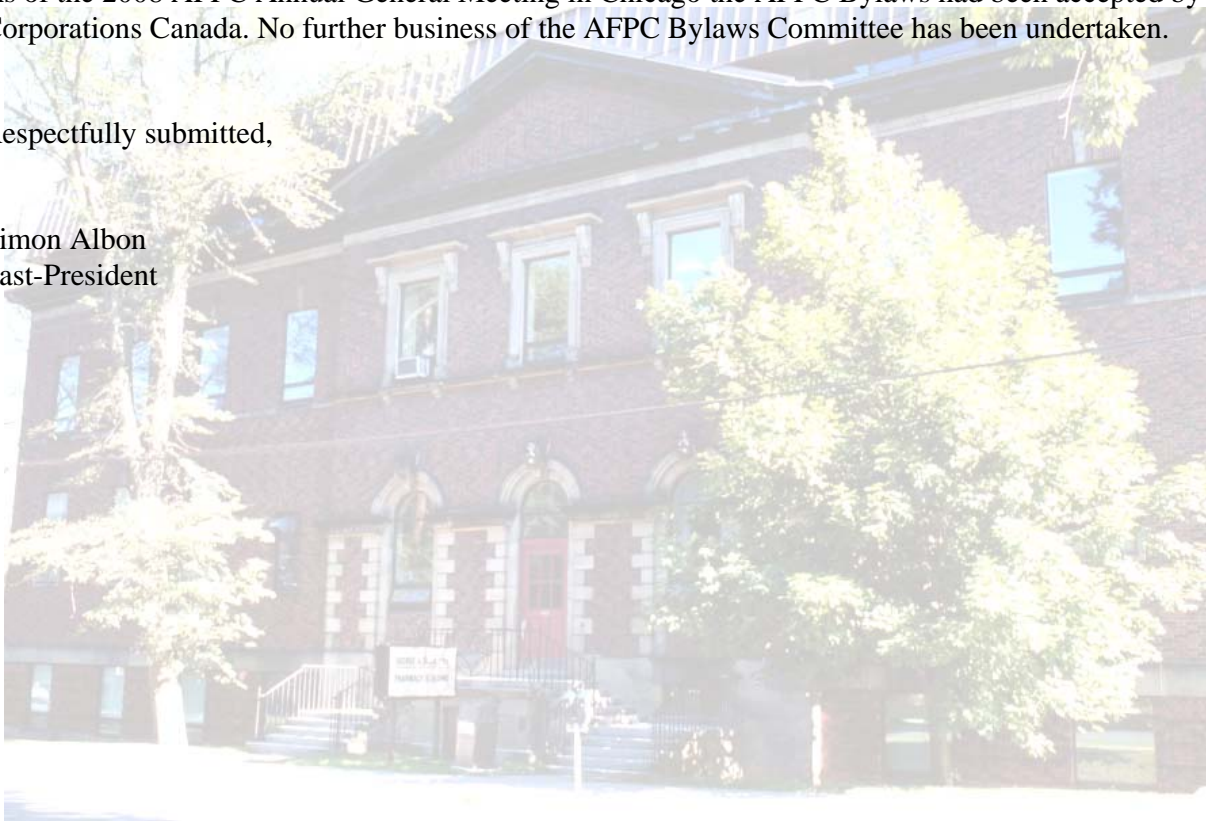
Dr. Frank Abbott (Executive Director)

Mr. Simon Albon (Past-President, Chair)

As of the 2008 AFPC Annual General Meeting in Chicago the AFPC Bylaws had been accepted by Corporations Canada. No further business of the AFPC Bylaws Committee has been undertaken.

Respectfully submitted,

Simon Albon
Past-President



Association of Faculties of Pharmacy of Canada

**Annual General Meeting
June 4, 2009
Halifax**

Communications Committee Report

**Membership: Dan Thirion, Chair as of June 2008 (Montreal)
Simon Albon (University of British Columbia)
Rebecca Law (Memorial University of Newfoundland)
John Hawboldt (Memorial University of Newfoundland)
Frederick Calon (Laval University)**

Committee Activities:

1) AFPC Website

- a) New Website Management Company:** A new website management company was hired as of November 2008. The company's name is Graphically Speaking (www.graphicallyspeaking.ca). The AFPC website has been moved from the Planetfish web server to a new website hosting company (Canada Web Hosting). This company is a local Vancouver company. Although there was some hiccups during the website move the AFPC site is now up and running. We are working with Graphically Speaking for the regular maintenance of the site. A Web Redevelopment Proposal has been submitted in May 2009 for review and agreement. Once approved, certain aspects of the site will require some work including the website Content and Search Stats Review.
- b) French Mirror Site:** Several pharmacy students have been hired to translate the website and make all modifications to the current website. Their work has been reviewed before modifications were made to the website. Work has been completed as of May 15th 2009. This work includes translation of all website and website related pages. This does not include translation of documents made available on the website. Current and future modifications are not being translated. A plan for maintaining translation of the website is suggested and should remain as an ongoing activity of the AFPC Communications committee.
- c) Other On-going or planned AFPC Website Projects:**
- a. AFPC Research Expertise Database and**
 - b. AFPC Teaching Expertise Database**
 - i. Project completed. A process for updating the content needs to be developed
 - c. PEP Canada Presence on AFPC Website**
 - i. Content up and running
 - d. Portfolio of success of AFPC:** to be developed
 - e. Program evaluation:** to be implemented once development work completed

2) **AFPC Newsletter:**

The newsletter continues to be published three times per year (January/February, April/May, September/October). Contributions from each Faculty remain very strong. On a rotating basis (approximately once every three years) each Faculty is asked to provide a “Spotlight” for the newsletter highlighting specific activities within the Faculty. University of Montreal and Memorial University of Newfoundland have both contributed to the 2009 issues. The next scheduled spotlight for September 2009 is Laval University. Submission for the 2010 deadlines for Spotlight and the AFPC Newsletter submission deadlines are usually determined by December of each year. Tentative dates suggested for 2009 include January 27th, April 28th, and September 29th. Dalhousie University, University of Alberta, and University of Manitoba would be the next scheduled for the Faculty spotlights unless suggested otherwise. The newsletter format (including content headers and bolding) is provided for reference below to help streamline the editing process for Rebecca:

1) **Academic Appointments, Promotions, Resignations, Retirements**

2) **General Faculty News:** any issues of a broad faculty-wide nature

3) **Individual Faculty News:** - presentations, publications, honours and awards, other noteworthy contributions etc.
- **Grants** (or as New Patents, New Grants, Grant Renewals etc.)
- **Student News** (eg. Degrees Granted, major student awards or achievements, etc.)

4) **Major Visitors**

5) **Other things:** (eg. Opportunities, Education Corner, In Memoriam, etc.)

6) **AFPC Communication Newsletter Formatting Issues:**

For consistency of submissions in the newsletter, please use the following guidelines in your submissions:

- Please **do not** indent paragraphs, or use hanging indents.
- Please **do not** format with additional spacing before or after each paragraph (as is done here with this paragraph). To separate paragraphs, please <return> twice to give an extra blank line between paragraphs.
- Please **do not** double-space your entire submission. Use single spacing except between paragraphs.
- Please **DO** use Times New Roman, Normal, 11 font. (This is the usual font type in the newsletter).
- Please submit the document in Microsoft Word, if possible. (Rebecca can convert from Word Perfect if necessary).

NOTE: The Communications Committee would like to thank Rebecca for the outstanding job she continues to do as editor of the AFPC Newsletter.

Respectfully submitted,

Dan Thirion

AFPC Education Committee Report
AFPC Annual General Meeting
Lord Nelson Hotel
Halifax, Nova Scotia
Thursday, June 4, 2009

Members: Nancy Waite (Chair), Nese Yuksel, Daniel Thirion, Ingrid Price

Activities:

1. Preliminary meeting at AACP/AFPC annual meeting in July 2008. Discussed Terms of Reference and priorities for committee.
2. Teleconference with Nese Yuksel, Ingrid Price, Anne-Marie Whelan and Nancy Waite (Daniel Thirion was unable to join us) November 10, 2008 to discuss Terms of Reference, name change of annual meeting, themes for next 3 years of programming, teaching formats and support for this year's planning committee.
3. Teleconference with Nese Yuksel, Ingrid Price, Daniel Thirion and Nancy Waite April 23, 2009 to discuss themes, format and audience for the annual meeting and to give an update on the AFPC outcome discussion.

Summary of discussions:

1. **Terms of Reference:** The following Terms of Reference for the Education Committee were agreed to at the AFPC Midyear Council meeting:

The Education Committee will:

- Identify and support academic pharmacy education programming needs.
- Provide guidance regarding the educational programming offered through the AFPC annual meeting, in areas such as identifying themes for upcoming conferences, alternative program delivery methods, broadening audience reached etc.
- Maintain ongoing communication with the annual conference planning committees.
- Advise AFPC Executive to ensure that the AFPC BScPhm and PharmD outcome, levels and ranges remain current.
- Provide AFPC Executive Director and Executive with guidance regarding response to requests for feedback on pharmacy education initiatives.
- Ensure that the educational priorities of AFPC are reflected in the AFPC Mission Statement
- Liaise, through representation, with major pharmacy educational initiatives as appropriate.

2. **Membership:** It was recommended that the Education Committee membership include the Chair (or designate) from the current and following year annual meeting planning committee, plus 3 members from Council, one of whom would chair the Education Committee.

3. **AFPC Annual Meeting:**

I Name Change: A recommendation was made and approved at the AFPC Midyear Council meeting to change the name of the annual meeting to the Canadian Pharmacy Education and Research Conference. The intent is to better reflect the activities at this meeting and encourage a broader attendance. Motion to be made for approval, for implementation of the name change for the 2010 annual meeting.

II Annual Meeting Themes:

Recommendations were made for themes, from which the conference organizing committee could pick from, for the next 3 years of annual meeting programming.

- Ingrid updated us on the 2010 conference theme of Dynamic Nature of Curriculum: Changing, Growing, Reforming. It will include curricular mapping, program assessment, challenging boundaries, and roundtable hot topics.
- The following themes were suggested for upcoming meetings: Growing Academic-Practice Partnerships (with perspectives from experiential, research, faculty recruitment), Moving Pharmacy Practice Models Forward, Technology/Informatics (curriculum, research, student perspectives), Educational Research
- Further ideas will be solicited at the AGM meeting.
- It was suggested that the Education Committee approve the annual meeting organizing committee's theme.
- The value of partnering with other organization's conferences was questioned and it was suggested that only if the themes overlap should this occur.

III Annual Meeting Format and Audience:

- It was recommended that several formats be part of the conference every year.
 1. Current Issues Forum (this could take the form of roundtables, a series of quick presentations etc) Suggested topics include IPE, Diversity Competency, Practice Site Standards/Expectations, Teaching Innovations, Serving the Underserved
 2. Innovations in Teaching presentation: It was suggested that this become an award given every year, with the top 2 winners being provided with all/partial expenses to the AFPC meeting and a presentation at the conference. The Awards Committee has drafted criteria for an Innovation in Teaching Award and is considering the idea about the award being a presentation award.
 3. School/Faculty Showcase: it was suggested that each School/Faculty give a 15 minute presentation of key initiatives with 5 Schools presenting each year.
 4. Workshop (2-3 hrs): an opportunity to get some hands on training in a specific area
 - It was suggested that a needs assessment or inquiry be conducted to find out if other pharmacy/health care educators would be interested in attending this meeting and if they are, how the program would need to be structured to accommodate their interests. (i.e. have one day of broader topics/workshops so these individuals could attend). Some groups that were suggested included CE/CPD program directors, pharmacy technicians, and lab instructors/coordinators.
 - It was recommended that the CPTEA group be invited to the Halifax meeting. Mary has confirmed that free registration was offered to an executive member of each pharmacy technician organization (CPTEA and CAPT). They anticipate 2-3 participants from these organizations.
4. **AFPC Education and General Mission Statement:** The AFPC Mission statement has recently been updated and adequately reflects the educational mission of the organization. It was recommended that the AFPC Education Mission Statement be removed from the AFPC website.
 5. **AFPC Outcomes update:** Nancy gave the committee an update on the progress towards BScPhm and PharmD Educational outcomes and levels.

Respectfully submitted:

Nancy Waite
Chair, Education Committee

**Association of Faculties of Pharmacy of Canada
Nominating Committee Report
AFPC AGM June 4, 2009 – Halifax NS**

Nominating Committee Members:

Dr. Linda Hensman (ADPC)
Dr. Roy Dobson (President)
Dr. Frank Abbott (Executive Director)
Mr. Simon Albon (Past-President, Chair)

Nomination of AFPC Councilors for 2009-2012:

1. Bev Allen has agreed to assume the position of AFPC Councilor for the University of Saskatchewan for a three year term commencing June 2009.
2. Dan Thirion, AFPC Council representative for the University of Montreal, will not assume a further three year term on the AFPC Council. An AFPC representative from University of Montreal is currently being sought for the 2009-2012 term. The Council would like to thank Dan for his many contributions as a Council member. In particular, his leadership, enthusiasm, and positive spirit will be greatly missed.
3. Mary MacCara has agreed to assume the position of AFPC Councilor for Dalhousie University for a second three year term commencing June 2009. The Council would like to thank Mary for her continued support of AFPC activities.

President-Elect for 2009-2010:

I am very pleased to announce that Dr. Lalitha Raman-Wilms, from the University of Toronto, has accepted the nomination as AFPC President-Elect for 2009-2010.

Dr. Raman-Wilms, as many of you will know, has spent many years as the AFPC councilor for the University of Toronto providing much energy, positive spirit and leadership towards AFPC activities. Most recently Dr. Raman-Wilms chaired the successful 2008 joint annual meeting with the American Association of Colleges of Pharmacy in Chicago, Illinois. We thank Lalitha for her willingness to assume the President-Elect position and look forward to her continued involvement and leadership as an AFPC Executive member.

Respectfully submitted

Simon Albon
Past-President

PEP Canada Report to AFPC

January 2009

With financial support from AFPC, PEP Canada has held two teleconferences (October 20 and December 9, 2008) since the last report (July, 2008).

This report highlights the work of PEP Canada during this time.

1. National Preceptor Strategy

National Site Criteria – Community Pharmacy Rotation Sites: A summary of criteria common to community pharmacy rotation sites across the country has been completed and posted on the PEP Canada WebCT portal hosted by the University of Alberta. This information may be useful should the creation of minimum national standards for community pharmacy rotation sites be considered.

National Preceptor Criteria (in progress): PEP Canada is currently reviewing the preceptor criteria used by each program across the country to see which criteria are common to all/ most schools and to develop a consensus of preceptor criteria for Canada.

Preceptor Education: Building on the key components of an Introductory Preceptor Workshop developed by PEP Canada and presented at the AFPC AGM in Montreal, 2007 the group is exploring the development of a National Preceptor Training Program.

During the Chicago meeting, PEP Canada was updated on the open-access interprofessional online preceptor education program developed by the BC Academic Health Council <http://www.health-disciplines.ubc.ca/courses/>. This online resource is accessible to all schools across Canada. Certainly each school would need to complement this material with program-specific content if PEP Canada decided to adopt the UBC program.

PEP Canada is committed to expanding and strengthening preceptor training resources in Canada. The group will also be compiling a list of preceptor training resources and programs currently being used by Canadian Pharmacy schools.

2. Building Capacity

Working together to build pharmacy rotation capacity is a major priority for PEP Canada members at this time, particularly as enrolments increase and entry-level Pharm.D. programs are developed (with accompanying increased requirements for practice experiences, both of longer duration and at an advanced level). Ideas/suggestions for building capacity that have been discussed include:

Building Relationships with CSHP: PEP Canada plans to investigate the development of a national pre-hospital rotation module for all Canadian pharmacy students endorsed by CSHP. The module would help prepare pharmacy students for the provision of patient care in a Canadian hospital setting.

Pyramidal Learning: PEP Canada would like to further explore the Université de Montréal's work on pyramidal learning e.g., investigating how peer/peer or advanced student to junior student learning can support practice-based education in Canada. CSHP proposed the idea (to PEP Canada) of a pilot project at 1 or 2 hospital sites across Canada, having residents or senior students precept junior students. However there are legal barriers to pyramidal precepting and those regulations need to be addressed with NAPRA.

Electronic Databases for Rotation Management: PEP Canada has prepared a summary of databases and electronic resources used by each pharmacy program to help manage pharmacy rotations. HSPnet <http://www.hspcanada.net/> is a web based practice management tool being used or investigated for possible use by many provincial departments of health in Canada. PEP Canada members have shared what experiences they have had with HSPnet to assist other programs with deciding how they will use HSPnet. In addition, pharmacy programs investigating the purchase of web based rotation management and assessment products such as EMS (Education Management System) <http://www.memsweb.com/> have drawn upon the experiences and recommendations of pharmacy programs that have already used such products.

3. CCAPP Standards

PEP Canada has been invited to provide feedback on the new draft standards, specifically those relating to the doctor of pharmacy as the first professional degree in pharmacy (FPDPD). A document summarizing the group's comments will be put together by January 15, 2009.

4. Presentation at AFPC AGM in Halifax, June 2009

Louise Mallet and Tania Choquette, Université de Montréal, will present on behalf of PEP Canada in Halifax. The topic of their presentation is the development of the new experiential program at the Université de Montréal as part of the ELPD curriculum, the challenges it has presented and how they are meeting those challenges.

5. PEP Canada Meetings

PEP Canada members will have an opportunity to meet face to face at meetings scheduled at the College of Pharmacy, Dalhousie University,

Halifax, NS on June 2 and 3rd, 2009. The opportunity for members to attend this meeting is an important step in the enhancement of pharmacy experiential education in Canada in that it enables sharing and detailed discussion of common issues in a manner that cannot be achieved via email or teleconferencing.

Requests for funding for PEP Canada members to meet/attend the AFPC AGM are to be made to Deans/individual schools, and no longer to AFPC.

6. Communication

In addition to teleconferencing, alternative (and less costly) forms of communication have been explored. *Elluminate*® <http://www.illuminate.com/> web-conferencing has been tested by a couple of members and may be used to conduct some business (e.g., small group discussions) in the future.

7. Strategic Plan

An agenda item during our June meetings in Halifax will be to update PEP Canada's Strategic Plan.

8. Publication

A summary of the 2008 PEP Canada presentations will be published in the AFPC newsletter.

Respectfully submitted by:
PEP Canada Co-Chairs
Kelly Brink, University of Manitoba
Wanda Spurrell, Memorial University of Newfoundland

PEP Canada Report to AFPC

Submitted by:

Kelly Brink & Wanda Spurrell (Co-chairs 2008-2009)

May, 2009

With financial support from AFPC, PEP Canada has held one teleconference on February 26, 2009 since the mid-year report (January, 2009).

This report highlights the work of PEP Canada during this time.

1. PEP Canada presentation at ADPC Meeting, January 23, 2009



Kelly Brink, Harriet Davies, Louise Mallet and Nancy Waite presented PEP Canada's accomplishments and our current priorities. The presentation was well received and there was lots of discussion afterwards. The Deans want to be more involved with our group and we will increase our communications with them.

2. Communication with CSHP

A letter was sent on behalf of PEP Canada to Jason Howorko and Myrella Roy referencing an article by Jason Howorko in *CJHP*, *Practical Education for Pharmacist Students: A Hospital Perspective*, in which the need for dialogue was pointed to amongst CSHP, its members and academic, regulatory and governmental stakeholders to discuss practice experience models for pharmacist students in order to ensure future demands can be met. The purpose of this communication was to endeavor to establish regular dialogue with CSHP about the future needs of practice education in Canada. We have not heard from them yet, but we will be discussing further communications with them at our meetings in Halifax.

3. PEP Canada Meetings

PEP Canada meetings are scheduled at the College of Pharmacy, Dalhousie University, Halifax on June 2 and 3rd, 2009. Agenda items include:

- Updating Strategic Plan,
- Capacity building
- Blueprint
- ELPD
- Pyramidal approach to experiential learning
- COOP experiential program update
- Our relationship with CSHP

4. PEP Canada Presentation at AFPC AGM in Halifax, June 2009

Louise Mallet and Tania Choquette (Universite de Montreal) will present on behalf of PEP Canada in Halifax. The topic of their presentation is the development of their new experiential program, as part of the ELPD curriculum, the challenges it has presented and how they are facing those challenges.

5. Blueprint Consultations

The Deans and AFPC Council are meeting on Thursday, June 4 from 5:00 to 7:00 PM. This will be a facilitated session to deal with the Blueprint implementation plan. Kelly Brink, Wanda Spurrell and Harriet Davies will be attending to represent PEP Canada at this meeting to speak to any experiential issues that are included in the Blueprint for Pharmacy Implementation Plan.

6. New PEP Canada Co-chair

Harriet Davies (Dalhousie) will join Wanda Spurrell (Memorial) replacing Kelly Brink (Manitoba) as co-chair for a 2 year term.

Respectfully submitted by:

PEP Canada Co-Chairs
Kelly Brink, University of Manitoba
Wanda Spurrell, Memorial University of Newfoundland

Program Evaluation Task Force Progress Report
AFPC Annual General Meeting
Halifax, June 4, 2009

Task Force Members: Ingrid Price (Chair), Anne Marie Whelan (AFPC representative), Linda Hensman (ADPC representative), David Hill (CCAPP), John Hawboldt (MUN), Mary MacCara (Dalhousie), Céline Brunelle (Laval), Claude Mailhot (Montreal), Lalitha Raman-Wilms (Toronto), Nancy Waite (Waterloo), Silvia Alessi-Severini and Colleen Metge (Manitoba), Roy Dobson (Saskatchewan), Sheila Kelcher (Alberta), David Fielding (UBC).

Charge: To develop "An AFPC Guide for Program Evaluation for Canadian Faculties of Pharmacy"

Details: This guide should provide a program evaluation planning model with tools that schools can use.

Key elements:

- Program evaluation guide – how to develop and implement an effective and efficient program evaluation based on the priorities of the pharmacy school
- Framework for program evaluation planning section of guide created:
 1. Program described
 2. Key stakeholders (students, faculty, employers, profession, etc.) identified
 3. Priority evaluation areas identified:
 1. Learning assessment methods
 2. Strategic plan
 3. Entry-to-practice competency
 4. Student satisfaction
 5. Competency of teaching faculty
 6. Admissions

Progress since July AGM:

- Submissions collated to identify gaps and make suggestions for improvement.
- Submissions edited and fed back to working groups for further deliberation.
- Three evaluation areas developed from questions to tools for presentation to committee.
- Committee members identify areas wish to use in their school's program evaluation.
- Developed a plan to create program evaluation web site (see proposal)

Next steps

- Draft of overall guide completed and provided to committee for feedback.
- Development of program evaluation web site.
- Additional tools developed on an as-needed basis - *ongoing*
- Schools carry out evaluation and provide feedback to committee re: tool validity and process efficacy and resource intensity - *ongoing*

Respectfully submitted by:

Ingrid Price (Chair of AFPC Program Evaluation Task Force).

**AFPC Research Committee Report
Annual General Meeting
Halifax, June 4, 2009**

Committee Members: John Hawboldt (Chair)

Research and Teaching Data Directory:

The research database has been completed and is on the website. However, there is still deliberation regarding the research directory itself and developing the teaching database.

In particular, there has been discussion with regards to modifying the name of the directory itself. It was felt that perhaps changing the link name, on the top bar of the website from “AFPC Directory” to perhaps a term that is more clearly describes what the database is and its purpose. This is proving to be difficult as there is limited space on the bar and it is problematic to find one term that best describes the database itself. ‘Faculty research/teaching areas of interest’ or ‘faculty research/teaching area’ are possible suggestions.

Another priority of AFPC regarding the database is to examine the categories in the research section. It was felt that the categories needed to be reviewed for efficient recovery of information. As it has been a few years since the database was placed on the website, the accuracy (ie. faculty that have left, etc), needs to be confirmed. A permanent mechanism needs to be developed to help ensure this. The Research Committee hopes that all of these initiatives will make the database more user-friendly for those seeking information from it.

Finally, the teaching database needs to be developed and put on the website. Our experience with the research database will hopefully assist in the efficient development of the teaching database. It was the decision of the council that a cost-effective mechanism needs to be found (as a database redesign may prove to be costly) to help improve the database in its entirety.

Basic-Science and Practice-Based Research:

As part of its mandate of encouraging research, the Research Committee of AFPC continues to look for new opportunities to assist in the promotion of basic-science and practice-based research.

Respectfully submitted by the Chair, John Hawboldt.

**Strategic Planning Report – AFPC Annual General Meeting
Lord Nelson Hotel, Halifax, NS – June 4, 2009
Roy Dobson (Chair)**

AFPC Mission Statement

To advance the interests of academic pharmacy by supporting, promoting and recognizing innovation, excellence and leadership in pharmacy education, research and scholarly activity.

The strategic priorities of AFPC:

A. Program evaluation:

Objective 1.2: To support members, Deans and Faculties in advancing knowledge, skills and expertise critical to pharmacy education, research and scholarly activity.

New Actions and Issues:

- i) Program evaluation guides and the tool components assembled (i.e. the toolbox) are to be communicated to the Faculties by AFPC. Some of the tools components are more complicated than others and in general tools will need to be updated on a regular basis.
- ii) AFPC will collect information from the Faculties on their level of engagement in program evaluation – distribute and/or post on the web site for information. Ingrid Price (Chair) is prepared to assist with program evaluation in Faculties desiring her input to the process.
- iii) Deans will need some guidance on what resources are necessary for the program evaluation project in each faculty.

Status:

Initial program evaluation toolbox has been completed and AFPC is on track with this project.

B. Funding:

Objective 4.1: To secure independence through consistent, long term funding for the ongoing operations of AFPC that will allow for special projects.

New Actions and Issues:

- i) Preserve the status quo of funding for AFPC.
- ii) Continue to look for new opportunities for smaller amounts of funding but put the large initiative on hold.

Status:

AFPC is on track with this priority.

C. Conference Planning relevant to the mission of AFPC:

Objective 1.1a: To promote excellence in pharmacy education, research and scholarly activity by showcasing and promoting innovations in pharmacy teaching and research.

New Action:

- i) The education committee to come forward in June with a proposed name for the annual conference and the makeup of a committee that would integrate with the conference committee of the host Faculty to attract other stakeholders to the conference

Status:

AFPC is on track with this priority.

D. Web Site Development:

Objective 2.1: To provide members and external organizations with the ability to easily identify and access AFPC members with skills in specific areas (Identify faculty member expertise and provide a listing of faculty and their expertise on the AFPC web site); and Objective 1.2: To support members Deans and Faculties in advancing knowledge, skills and expertise critical to pharmacy education, research and scholarly activity (Develop a repository of innovations and activities in Canada)

Recently, there has been a change in web site management.

New Actions and Issues

- i) A critical web site project will be the posting of program evaluation materials. The Executive Director is working with the new web site manager to initiate this project.
- ii) Additional web site access is also being created to allow committee members to make changes to the web site information.
- iii) Maintenance of the research database is still to be organized and the teaching database has yet to get off the ground

Status:

AFPC is facing some challenges adjusting to new web-site management, and the workload changes associated with maintaining our databases.

E. Educational Outcomes:

Objective 1.1: To promote excellence in pharmacy education, research and scholarly activity (Develop and continually update educational outcomes).

Educational Outcomes Project: This project was initiated to update educational outcomes for both the B.Sc. Pharmacy and Entry Level Pharm. D programs. Levels and ranges for the ELPD program are to be created. The educational outcomes for both degrees will be in one document but differences between the two degrees are to be differentiated either through the educational outcomes or in the levels and ranges of the two degrees.

New Actions and Issues:

- i) The consultant and Task Force continue to work on identifying distinct differences between the two degrees in terms of educational outcomes. The purpose is to be able to differentiate the two entry-to-practice degrees.

Status:

AFPC is on track with this priority but timelines may need to be extended.



Report From the Academic Board Member on the Canadian Pharmacists Association Board June 4, 2009

The following is an overview of some of the activities over the past year:

Blueprint for Pharmacy: The Vision for Pharmacy

- Vision was launched at June 2008 Annual National Conference in Victoria, BC.
 - o *Optimum drug therapy outcomes for Canadians through patient-centred care.*
- Task force and working groups completed the Implementation Plan, it is currently out for consultation.
- Education and continuing professional development is a key strategic area, with 13 key actions and corresponding deliverables.

Moving Forward

- Final report was published in November 2008
- Research done in partnership with CAPSI and focus groups with deans
- Included 10 evidence based recommendations relating to educating and training the pharmacy workforce

Pharmacy Practice Research

- Canadian Pharmacy Practice Research Group (CPPRG) sharing pharmacy practice research through:
 - o *the Translator*: a quarterly newsletter summarizing key Canadian research articles with health policy implications
 - o *Live Links*: an electronic publication sharing current pharmacy practice research from around the world; launched in January 2009 and shared with policy makers and stakeholders

Free Licenses to e-Therapeutics and e-CPS to each Canadian Faculty

- An update will be provided at the Annual Meeting

Membership

- Student Membership
 - o Re-launch of student membership so students practicing in one of the ten Canadian faculties are eligible to receive complementary membership while they are studying.
 - o Students will receive free on-line access to the Canadian Pharmacists Journal (CPJ)
 - o First year of new practitioner membership after graduation from BSc(Pharm) or ELPD will also be complementary to students graduating from one of the ten Canadian faculties.
 - o Graduates will receive access to e-CPS subscription
- Pharmacist Membership
 - o A membership strategy review is currently underway

Publications

- Work has begun on a new edition of Patient Self-Care, due to be released in Spring 2010.

Rita K. Caldwell
Academic Board Member on CPhA

**2009 CCAPP report to the AFPC Annual General Meeting
June 4, 2009 Lord Nelson Hotel, Halifax**

Executive of CCAPP (2008-2009):

President - Erin Farrell-Mackenzie, CPhA Appointee
President Elect – Barbara Downe-Wamboldt, Non pharmacy academic member
Past President - Ray Joubert, NAPRA
Executive Director - David Hill

The CCAPP board has met once by teleconference since the 2008 AFPC AGM. The next board meeting is scheduled for June 10th and 11th. Highlights of activities over the last 11 months are as follows:

- **Accreditation activities**
 - **Degree programs.** One site visit was held at the University of Waterloo.
 - **Pharmacy Technician Programs** – CCAPP scheduled and conducted a second and third cycle of one-day site visits in October/November and March. A total of 10 programs were visited and 8 programs were re-reviewed.
 - **International programs.** A site visit was held at the College of Pharmacy at Qatar University. The new Qatar baccalaureate program has been designed around AFPC educational outcomes and NAPRA competencies.

- **Accreditation Standards—Degree Programs**
 - The standards committee has been inactive since the last AFPC AGM. At the CCAPP AGM in June, direction will be provided to this committee regarding moving forward with the standards for the Doctor of Pharmacy credential as the first professional degree in pharmacy.

- **Interprofessional Health Programs and Collaborations**
 - CCAPP has been a participant in a Health Canada-funded project to develop common principals for interprofessional health education activities that can be used in the development of standards for accrediting agencies in Canada. The project was coordinated by the Association of Faculties of Medicine of Canada and included six professions: medicine (i.e., undergraduate program, Royal College residency programs, and the family medicine residency program), nursing, pharmacy, occupational therapy, physiotherapy, and social work. The first phase of the work of this project has been completed and is available on the project's website www.aiphe.ca. An environmental scan and a "Principles and Implementation Guide" (http://www.afmc.ca/aipheafiss/documents/AIPHE_Principles_and_Implementation_Guide_EN.pdf) are available on the website. The Association of Faculties of Medicine of Canada (the secretariat for the project) has applied for a 2nd round of Health Canada funding to continue to develop the accreditation components in this important area.

- **Website**
 - The CCAPP website is being substantially updated with a new site map structure and new content. The revised website should be active by the end of July.

Respectfully submitted,

Susan Mansour and Carmen Vezina, AFPC delegates to CCAPP

**2008-09 Annual Report from AFPC Delegate to the Canadian Council on
Continuing Education on Pharmacy (CCCEP)
AFPC Annual General Meeting
Lord Nelson Hotel, Halifax, NS
June 4, 2009**

Board of Directors

Annick Minville (PQ) President
Garry Meek (NB) Past-President
Bev Zwicker (NS) Vice-President

Roberta Stasyk (AB)
Ashifa Keshavji (BC)
Susan Lessard-Friesen (MB)
Barbara Thomas (NF and LB)
Sandra Winkelbauer (ON)
Michelle Wyand (PEI)
Sheena Deane (CAPT)
Barry Power (CPhA)
Bruce Millin (CSHP)
Yvonne Shevchuk (AFPC)
Executive Director – Arthur Whetstone

Summary of Activities:

A council meeting was held November 26-28, 2008 in Toronto. A number of teleconferences were held throughout the year. A meeting will be held May 28-29, 2009 in Halifax.

CCCEP is thriving and the financial stability of the organization has improved. This will likely be a record setting year with respect to the number of programs accredited. The board and executive director have also been busy and productive with respect to Board governance. A director's orientation manual has been developed and revised. At the May meeting we will be considering changes to the bylaws and the financial management policy and we will be considering issues such as risk management.

The priorities for 2008-09 were:

1. Complete the 2008-11 Strategic Plan and Implementation Plan
2. Complete the revision of the CCCEP website – this has been done. A few areas still require a bit of work, however the website looks great. Please have a look at www.cccep.ca
3. Complete the design of the program Database and ensure its utilization by program providers- this is near completion. There will be training sessions held for providers in June.
4. Complete the revisions to the Accredited Provider Program and implement a promotion strategy- the revision is complete and three accredited providers

in the pilot have been renewed for five years. Promotion to increase the number of accredited providers will begin in the fall.

5. Complete the review of best practices of CPD and accreditation – the review is underway and targeted to be completed by September 2009
6. Initiate a comprehensive review of the CCCEP Guidelines and Criteria for CCCEP accreditation- a committee will likely be appointed at the May meeting to undertake this task
7. Develop a communications strategy to promote the CCCEP brand
8. Develop a mentorship program and obtain funding support for the program- not yet begun
9. Develop a coaching program and obtain funding support for the program – not yet begun

As well, CCCEP had been working on developing an accreditation system for certificate programs in partnership with NAPRA. A policy document has been drafted for discussion with stakeholders.

CCCEP has been identified in the Blueprint for Pharmacy Implementation as a potential lead partner in the implementation of Action 1.4 (Lifelong Learning) and Action 1.7 (CPD). In addition Interprofessional Education and Training (1.2), Experiential Learning (1.5) and Research in CPD (1.11) also fit with the work of CCCEP. Discussion will occur at the May meeting with respect to CCCEP's commitment to be a lead partner.

CCCEP Annual Reports, including priorities and initiatives are available on the website www.cccep.ca

I have enjoyed serving as the AFPC delegate to CCCEP over the past year. If you have questions regarding CCCEP, please do not hesitate to contact me.
yvonne.shevchuk@usask.ca.

Respectfully Submitted

Yvonne M. Shevchuk, Pharm.D., FCSHP
University of Saskatchewan
May 25, 2009

**Report on the Canadian Practice Research Group (CPPRG) for AFPC
AFPC Annual General Meeting
Lord Nelson Hotel
Halifax, Nova Scotia
Thursday, June 4, 2009**

Current CPPRG Executive:

Bill Semchuk, SK (Co-chair)
Lyne Lalonde, QB (Co-Chair)
Lisa Dolovich, ON (Past Chair)
Marie-Anik Gagné (Vice Chair)
Members :
Lisa Bishop, NL
Scott Gavura, ON
Alan Low, BC
Linda MacKeigan, ON
Colleen Metge, MB
Judith Soon, BC

Activities:

1. Developed a working definition of pharmacy practice research:

Pharmacy practice – the professional development of pharmacists, including optimizing the role of pharmacists in the delivery and use of drugs and other health care products and services.

2. Advocated for pharmacy practice research
 - Linkages with other organizations (CFP, CHSRF, CIHR, Canada health Infoway)
 - A CPPRG representative is now on the Canadian Foundation for Pharmacy Board and involved in grant reviews.
3. Promotion of CPPRG and increase membership:
 - CPPRG will be updating database of membership in 2009/10. This database will be maintained on an ongoing basis.
 - As well, CPPRG will be updating the database of pharmacy practice research in summer 2009 (last update was in 2007)
4. Built on success of highlighting pharmacy practice research at the CPhA conference.
 - A number of research sessions (both oral and poster presentations) highlighting pharmacy practice research in Canada have been planned for the 2009 CPhA Annual National Conference in Halifax.
 - CPhA offered discounts to its members who were oral and/or poster presenters.
5. Continued to link and support pharmacy practice researchers in Canada:
 - A list serve for CPPRG members was implemented in 2008.
 - A new banner for CPPRG communications was also launched in 2008.
 - CPPRG continues to ensure that the Translator (which was launched in 2007 by CPhA) meets the needs of pharmacy practice researchers. The Translator was set up to support knowledge translation between pharmacy practice research and health policy.

Request to AFPC:

- Letter from CPPRG requesting that AFPC consider using the definition for “pharmacy practice research” developed by CPPRG in determining the criteria for the Canadian

Call for nominations:

CPPRG is looking for 4 candidates for the following positions for the term beginning June 2009:

Ontario (1 position)

Atlantic (1 position)

Member-at-large (2 positions)

Respectfully submitted:

Nese Yuksel

AFPC Conference, 2009
Annual General Meeting
Thursday, June 4, 2009
Halifax, Nova Scotia

PEBC Liaison Report

Please find attached, a concise summary of recent PEBC activities and summary statistics for 2008. Overall there were 1215 names added to the PEBC Register by examination in 2008, (1113 in 2007).

Of special interest in this report, a Pilot Pharmacy Technician Qualifying Examination will be run on August 29-30, 2009 in Toronto for the purposes of certification and licensure of up to 180 pharmacy technicians in Ontario. Information gathered from this pilot exam will help in the preparation of a Pharmacy Technician Qualifying Examination to be held at multiple sites in Canada starting in the summer of 2010.

A new Blueprint for the Pharmacists Qualifying Examination (Parts I and II) will be developed in 2010 with a national blueprint survey based on NAPRA's Professional Competencies for Canadian Pharmacists at Entry-to-Practice to be conducted in 2009.

The attached summary expands on these and other current activities. Thank you to Dr. John Pugsley for preparing and providing the attached PEBC Update.

Respectfully submitted,

Lavern M. Vercaigne, Pharm.D.
AFPC Liaison to PEBC

2009 Annual Board Meeting Summary



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PEBC UPDATE
The Pharmacy Examining
Board of Canada

Contributor:
J. Pugsley

The Pharmacy Examining Board of Canada held its 2009 Annual Board Meeting on March 7, 2009 in Toronto. Standing committees met over the 3 days preceding this meeting. The following are highlights of issues addressed and recommendations made by the Board. For further information, you may contact Board appointees, President, Darcy McLurg or Registrar-Treasurer, Dr. John Pugsley.

Board Appointments

New appointments to the Board taking effect at the close of the Annual Board Meeting are:

Manitoba Pharmaceutical Association

Shawn Bugden

Association of Faculties of Pharmacy of Canada

Dr. Anne Marie Whelan

2009 Executive Committee

President - Darcy McLurg

Vice-President - Peter Gdyczynski

Past-President - Dr. Jean-François Guévin

Executive Members

Tena Taylor
Jeff Whissell

2008 PEBC Statistics

PEBC Register:

There were 1215 names added to the Register by examination in 2008 (1113 in 2007).

Qualifying Examination:

A total of 1700 candidates wrote the Qualifying Examination-Part I (MCQ) in 2008, as compared to 1682 in 2007. A total of 1631 candidates took the Qualifying Examination-Part II (OSCE), compared to 1645 in 2007.

There were a total of 11 candidates who were assessed for non-certification purposes (3 for the Alberta College of Pharmacists, 6 for the College of Pharmacists of British Columbia, 1 for Manitoba Pharmaceutical Association, 1 for the Newfoundland and Labrador Pharmacy Board).

Evaluating Examination:

There was an increase in the number of candidates writing this examination – 988 in 2008, compared to 866 in 2007.

Document Evaluation:

A total of 1114 applicants in 2008 were ruled acceptable for admission into the Evaluating Examination, compared to 836 in 2007, 801 in 2006, 854 in 2005, and 952 in 2004.

Blueprint for Pharmacy - Designing the Future Together

Gary Cavanagh continues to serve as the PEBC representative on the Blueprint for Pharmacy Task Force. A strategic action plan has been developed and will be presented at the 2009 CPhA Annual Conference.

Pilot Entry-to-Practice Examination for Pharmacy Technicians

Dr. J. Pugsley provided an update on the Pilot Entry-to-Practice Examination for Pharmacy Technicians. In 2008 and 2009, PEBC held several workshops to develop and review multiple choice questions and Objective Structured Performance Examination (OSPE) stations for the Pharmacy Technician Qualifying Examination-Parts I and II. Pharmacists from across Canada participated in these workshops. The OSPE will consist of interactive stations with standardized patients, non-interactive stations, including prescription checking stations and videotaped compounding stations. A pretest of the OSPE stations will be held on March 14, 2009. The stations are being pretested by pharmacists and pharmacy students to determine the functionality of the stations and appropriateness of scoring criteria. The Pilot Pharmacy Technician Qualifying Examination will be run on August 29-30, 2009 in Toronto for the purposes of certification and licensure of up to 180 pharmacy technicians in Ontario. Extensive research will be conducted with the Pilot Examination. The Pharmacy Technician Qualifying Examination will be available at multiple sites in Canada starting in the summer of 2010.

Requirements for admission into the Pharmacy Technician Qualifying Exam (Parts I & II) have been developed and approved as follows:

- Completion of a pharmacy technician program accredited by CCAPP (Canadian Council for the Accreditation of Pharmacy Programs) **or**
- Successful standing in the OCP Technician Certification Examination up to December 31, 2008 **or**
- Successful standing in the PTCB (AB) Technician Certification Examination up to December 31, 2007 **or**
- Successful completion of the PEBC Pharmacy Technician Evaluating Examination.

Pharmacy Technician Evaluating Examination

The PEBC Pharmacy Technician Evaluating Examination will begin in the fall of 2009 and will be held at selected locations in Canada.

The requirement for admission into the Pharmacy Technician Evaluating Exam is the provision of acceptable evidence of completion of a minimum of 2000 hours of work in the past 36 months in the field of pharmacy. Criteria for defining “the field of pharmacy” were approved by the PEBC Board on March 7, 2009.

Qualifying Examination-Part II (OSCE)

PEBC continues to conduct research and make presentations on the OSCE. In 2008, PEBC presented two research papers and a research poster at the 13th International Ottawa Conference on Clinical Competence, held in March 2008 in Melbourne, Australia. PEBC also presented at the CLEAR Conference in Anchorage, Alaska.

Committee on Examinations

At the March 2009 meeting, the Committee on Examinations reviewed and approved the blueprint for the Pharmacy Technician Evaluating Examination. Criteria for defining “the field of pharmacy” as part of the admission requirements into the Pharmacy Technician Evaluating Examination were approved.

A new blueprint for the Pharmacist Qualifying Examination (Parts I & II) will be developed in 2010 with a national blueprint survey based on NAPRA’s Professional Competencies for Canadian Pharmacists at Entry-to-Practice to be conducted in 2009. The Committee on Examinations will review the survey data and proposed blueprint.

Public Relations Committee

At the March 2009 meeting, the Public Relations Committee reviewed the recently revised Communication Strategy Plan, which now includes communication strategies for Pharmacy Technician candidates and educators.

The Committee was pleased with the positive feedback on the Qualifying Examination orientation video that is available on the PEBC website: www.pebc.ca

Board Meetings

The next Board meeting is tentatively set for October 22-23, 2009 (Mid-Year and Committee Meetings). The date of the next Annual Meeting is tentatively set for March 6, 2010 with Committee Meetings preceding.

REPORT ON CSHP AGM 2008

To: Dr. Frank Abbott and Executive, AFPC
 From: Anne Marie Whelan, Pharm.D.
 Date: August 18, 2008
 Subject: Report on CSHP AGM 2008

Thank you for delegating me as the AFPC representative to the CSHP AGM held in Saint John, NB from Aug 9-12, 2008.

Following are some items of interest from the meeting:

- Attendees voted in favor of the Resolution: “That CSHP and its members work collaboratively with the Blueprint for Pharmacy Task Force and working groups, and other pharmacy organizations in developing the implementation plan and in implementing relevant actions that align with our organizational mission and strategic priorities.”
- CSHP introduced its second online education program (CCCEP accredited)
- Preliminary discussions have been held with regards to developing accreditation standards for specialized residencies
- Work is ongoing to strengthen relationships with industry
- Council has renamed the “AGM & Educational Sessions” to “Summer Education Session” (SES). This new branding will be launched at the summer meeting of CSHP in Manitoba in 2009.
- At the AGM a brief update was given on the progress of the various items in the Strategic Plan. It was done very nicely and succinctly in table format on slides (example below)

OBJECTIVE	PROGRESS TO DATE			
Objective 1.1(actual wording of the objective was provided)				
Objective 1.2				
Objective 1.3				
Etc.				

**I wonder if something like this would be good to put in our newsletter to keep our members up to date on what is going on with AFPC and what progress is being made....”short and sweet” and visually interesting so may draw the attention of readers.....

It was a privilege for me to represent AFPC at this meeting. I wish to thank you for allowing me this opportunity. If you have any questions please contact me.

Canadian Network for Simulation in Healthcare
AFPC Annual General Meeting
Halifax, June 4, 2009

Simulation was originally identified as a priority in the Business Plan of the Canadian Patient Safety Institute. The need for a national coordinating strategy within the simulation healthcare community became apparent as a result of this initiative and a funding agreement with Health Canada was established.

The Canadian Network for Simulation in Healthcare was established with the 2 main objectives of: 1) the formal promotion and endorsement of simulation as a means to educate interprofessional healthcare teams and 2) establishing a national coordinating network for simulation efforts.

Patient-centred simulation is increasingly recognized for its potential for improved performance of healthcare professionals, reduced adverse events and increased patient safety. The Canadian Network for Simulation in Healthcare is striving for a health system where patient-centred simulation is integral to health professional and interprofessional teams functioning at the highest levels, resulting in safer and more effective care with improved patient outcomes in every setting. To facilitate this, the Canadian Network for Simulation in Healthcare will provide a platform for the promotion and advancement of patient-centred simulation among healthcare professionals, educators, administrators, regulators and policy makers across Canada.

The number of simulation programs is growing in Canada as more and more healthcare practitioners, administrators, educators and policy makers recognize the value of patient-centred simulation. While there are several early adopters and simulation programs developing across the country, the fundamental challenge remains to increase the number of users and range of settings in which patient-centred simulation is appropriately applied across Canada's Healthcare system.

This active collaboration will offer the Canadian simulation community the opportunity to benefit from a collective body of knowledge, efficiently share resources and leverage the synergistic potential of collaborative activities.

CNSH will fulfill 5 major roles in the Canadian Healthcare Community:

1. Develop and foster relationships among simulation stakeholders.
2. Build capacity of the simulation community
3. Develop Canadian guidelines for simulation-based practice, education and research
4. Facilitate exchange of knowledge regarding patient centred simulation
5. Build the case to increase the scope and appropriate use of patient-centred simulation

Four working groups have recently been developed within the Network. One member from the steering committee sits on each committee.

1. Building the Network (John Wade)
2. Programs for Non-technical Simulation (Sharon Mitchell)
3. Programs for Education (Paul Gamble)
4. Development and Promotion of Healthcare Simulation (John Parker)

I have had the opportunity to serve on the Steering Committee since December and have just begun serving as the Steering Committee representative for the Working Group for Non-technical Simulation. CNSH is in its infancy and as it develops, CNSH will provide extensive resources for anyone in Canada wishing to use simulation in their teaching or practice including patient simulation.

Respectfully submitted by:

Sharon Mitchell

AFPC representative to the Canadian Network for Simulation in Healthcare

**Report of AFPC representative to USP
AFPC Annual General Meeting
Halifax
June 4, 2009**

USP has announced its intent to make major changes to its bylaws. These changes need approval from the USP membership and are expected to be voted on at the 2010 convention. The changes will enable USP to adapt its structure and membership to the challenges of a global market.

For more information please see:

<http://www.usp.org/audiences/volunteers/members/private/C&B.html>

Besides the bylaws USP has also announced plans to change the structure and number of expert committees. Members of the Council of Experts will chair 20 Expert Committees in areas such as Nomenclature, Small Molecules, Biologics and Biotechnology, Excipients, General Chapters, Reference Standards, Compounding, Food Ingredients, and Dietary Supplements.

If you are interested to volunteer please see the following announcement:

<http://www.usp.org/audiences/volunteers/members/private/memos/2009-03-16.html>

Respectfully submitted,

Raimar Loebenberg
AFPC Representative to USP

ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA
Annual General Meeting, June 4, 2009
Lord Nelson Hotel & Suites
Halifax, Nova Scotia

EXECUTIVE DIRECTOR'S REPORT:

In this year's report it is my pleasure to briefly summarize the 2008-2009 activities for AFPC and ADPC. Activities have been brisk with special attention being paid to revising the educational outcomes for both the BSc and entry level Pharm D degree programs, dealing with issues of new web site management, supporting the continuing development of program evaluation, assisting PEP Canada in achieving their strategic activities for the year, meeting with stakeholders, and planning for the 2009 conference.

It has been my distinct pleasure to work with a dedicated and energetic executive and council who make my work that much easier and who keep me happily engaged in the goals and yearly pursuits of advancing academic pharmacy in Canada. I will do my very best to recognize the important contributions of council members and other committed faculty members as I write my report.

AFPC Finances:

Finances of the Association are in good shape despite the organization showing a deficit for the 2008 year. Compared to the Montreal Conference in 2007 the revenue from the joint conference with AACP in Chicago in 2008 was very disappointing. By all accounts the conference itself was a major success for AFPC in terms of gaining exposure and demonstrating the quality of our programs to our US colleagues. Unfortunately, the site of the conference turned out to be very expensive and the number of AFPC registrants did not increase substantially over conferences held in Canada. The conference deficit might have been prevented had we received generous sponsorship from Canadian sources but sponsorship for the 2008 conference was but one third that of the Montreal event. Apparently, having our conference outside of Canada is unpopular with our usual industrial sponsors.

AFPC is traditionally generous with our speaker expenses and the large number of speakers and extra days spent in Chicago added considerably to the overall bill. As a result, the deficit engendered from the conference resulted in 2008 income being \$30,000 below budget for 2008. Fortunately, AFPC expenses for the year were also lower than anticipated and this helped offset a good part of the conference deficit.

We should note that the conference deficit would have been significantly higher if AFPC had not had the generous support of AACP who subsidized most of our joint expenses for the conference. We should also be grateful that the exchange rate was near par at the time of the conference or our experiment in Chicago would have been even more painful. Nevertheless, in spite of the negative financial experience I sincerely hope that the 2008 joint meeting with AACP in Chicago will not be our last.

AFPC income from Faculty fees is beginning to level off because enrollments are stabilizing. The opening of the School of Pharmacy at the University of Waterloo gave a small boost to income for 2008 but the overall Faculty income will remain relatively constant until the Faculty of Pharmaceutical Sciences at UBC ramps up their enrollment based on the prospect of acquiring a new building. Award income in 2008 was increased because of the generous donation from Wal-Mart Canada to establish the Academic Leader Award in Pharmacy. The Wal-Mart sponsored

program for AACP conferences in the USA has been so successful that we might hope that Wal-Mart Canada will see fit to make the AFPC awards program grow as well.

The income for 2008 was enhanced by funding from the Faculties for the second year of the program evaluation project (\$25,000) and the funding of PEP Canada (\$12,000). The latter was an experiment to invoice each of the Faculties an equivalent sum in order to fund each of the PEP Canada representatives to attend the conference. While this approach makes more work for AFPC, it attempts to alleviate some of the expense differential of airfares based on the geographical location of each Faculty to the conference. Nevertheless, the Deans were not comfortable with continuing this funding approach for representatives of PEP Canada beyond the first year.

Expenses: The annual meeting expenses for council were over budget in 2008 but savings were achieved on other budgeted travel. Operating expenses were quite comparable to 2007 and slightly under budget in a number of categories. The difference between actual versus budgeted “Other Expenses” was approximately \$20,000. This difference was largely the result of significantly reduced spending on the program evaluation project. While this reduced expense made the year end deficit a little more palatable, we must be mindful that funds need to be available to support program evaluation development activities in the future.

As described in the budget, the expectations are that we will be back on track with a small surplus for 2009 if the Halifax conference proves to be a financial success. The sharp economic down turn in the latter part of 2008 has effected just about everyone. AFPC is seeing a bit of that effect in the number of affiliate members that have not renewed their memberships in 2009. The pharmaceutical industry support for the 2009 conference has softened somewhat but with more pharmacists beginning to take a greater role as primary healthcare providers and to exercise prescribing rights, we might expect industry to treat us a little more generously than they have in the past. The budget income for 2009 includes \$30,000 for the Educational Outcomes Task Force work that is designated as an 18 month project that will conclude at the AGM in 2010.

Expenses for 2009 are comparable to previous years but there is one new expense in the 2009 budget. For several years now, the auditor has questioned whether AFPC had liability insurance for its officers. Council deliberated this potential expense on at least three occasions and information was collected about liability coverage provided to council members by their individual universities. Once the information was evaluated Council voted to approve the Directors and Officers Liability Insurance that is provided through membership in Volunteer Canada. All members of Council are now covered by this insurance including the executive director.

In concluding discussion of finances may I assure you that AFPC is faithfully meeting its responsibilities as a not-for-profit organization in Canada. Once expenses for operating and annual council activities are met, the unexpended income is distributed in awards and projects to help preserve and to further develop the pharmacy academic enterprise in Canada. Reserve funds of the organization are sufficient to allow one year of operation without any outside income but to use these funds for any other purpose is generally not acceptable practice. Finance committee chair Roy Dobson is proposing that AFPC set up a contingency fund from any future surplus the organization might generate. This would allow AFPC, on a timely basis, to take on significant new projects and tasks without having to seek special funding or having to dip into the reserve. I would certainly endorse this proposal. A case in point is the revamping of our web site at a cost of approximately \$ 20,000. Considering that current maintenance of the AFPC web site is difficult at best, we need to begin revitalization of the AFPC web site almost immediately.

I have written in the past of the **AFPC fund raising committee** created about 3 years ago to raise sponsorship funds for special projects. While the concept of a fund raising committee is a good one, the reality is that time constraints and funding for committee members to travel limit the effectiveness of such a committee. As an alternative to the fund raising committee, the Executive Director has used the midyear meeting held most frequently in Toronto or most recently in Montréal to visit the pharmaceutical industry, particularly those companies who currently sponsor AFPC. When attending the CPhA conference, where there are a large number of exhibitors, the Executive Director uses this opportunity to touch base with many current and potential future sponsors. The same can be said for the Professional Practice Conference of CSHP held each year in Toronto in January. This year AFPC President Roy Dobson and I visited companies in Montreal following the midyear meetings. The costs for this activity were an extra room night each plus taxi fares for the visits, a reasonable expense given the benefit of remaining in contact with our most generous of sponsors. My recommendation would be that this fund raising approach carried out by the AFPC executive become a fundamental activity for future midyear meetings. Finally on finances, I wish to recognize the valuable input provided to me by Roy Dobson who has held the portfolio as chair of the planning and finance committee for the past four years.

Conference Activities:

AFPC Conference 2008:

The 65th AFPC Conference and Meetings (Education Advancing Practice) in 2008 was a historic event having been held jointly with AACP in the Sheraton Towers Hotel, July 19-23, in Chicago. Attendance at the joint meeting was the best ever for AACP with more than 1,800 registrants in total. Thanks to AACP, the AFPC conference was fully integrated into the AACP program. This provided an excellent opportunity for AFPC to highlight to our members and to our American colleagues some of the more recent and significant developments in pharmacy education in Canada.

The **first session** on Sunday, July 20 chaired by Lalitha Raman-Wilms was basically Zubin Austin (Toronto) day. Zubin presented on the “Challenges and Opportunities in Effectively Implementing Performance-based Assessment” followed by a workshop on developing and implementing OSCEs within a pharmacy academic setting. Interest in this topic was extremely high and attendance was standing room only.

The **second session** on Monday morning, July 21 on Interprofessional Education was chaired by Andrea Cameron. The keynote speaker, Ivy Oandasan, Director of the Office of Interprofessional Education of the University of Toronto set the stage for the session and this was followed by case examples of IPE from Ruby Grymonpre (Manitoba), Susan Mansour (Dalhousie) and Roy Dobson (Saskatchewan). IPE also proved to be a highly popular topic with excellent attendance during the session that concluded with an active panel discussion.

The **third session**, chaired by Nancy Waite on Monday afternoon was titled “Informing the Classroom through Research.” Linda Strand (Minnesota) spoke on “Linking Pharmacy Practice Research to Education” in which she described the elements of education required for pharmacists to realistically practice pharmaceutical care. Ross Tsuyuki (Alberta) spoke on engaging pharmacy practitioners in practice research followed by Neil MacKinnon (Dalhousie) and Annie Lee (Toronto) on linking Canadian patient safety initiatives with experiential education. Again this session was very well attended and generated a significant amount of stimulated discussion, a great way to conclude the AFPC portion of the program.

On average, AFPC and the host Faculty produce a very good annual conference but I must admit that the AFPC portion of the joint AACP/AFPC Conference in Chicago was one of the better that I have attended. The **program planning committee** of Lalitha Raman-Wilms (Chair), Andrea

Cameron and Zubin Austin of the University of Toronto and Nancy Waite of the University of Waterloo deserve a great deal of credit for organizing a very successful 2008 Conference. Finally, I would like to acknowledge AACP Executive Vice President, Lucinda Maine and her staff for making AFPC feel at home and for their generous assistance in the planning and implementation of the conference.

Other conference activities:

AFPC President, Simon Albon (UBC) along with AACP President Cynthia Raehl acted as moderators for the Opening General Session of the joint meeting and current AFPC President Roy Dobson gave closing remarks at the AACP Banquet. Other contributors to the AACP program from Canada were Neil MacKinnon, Ingrid Sketris and Harriet Davies from Dalhousie University, Carlo Marra and Ingrid Price from the University of British Columbia and Zubin Austin from the University of Toronto. Canadian faculty also contributed 2 Roundtable Abstracts, 11 School Posters, and 31 Research and Education Posters for a very respectable showing from AFPC members for conference participation.

AFPC Awards Banquet: The 2007-2008 award winners were recognized at a very nice function on Sunday evening, July 20, 2008 in the Chicago Sheraton Hotel. Awards chair Mary MacCara acted as Master of Ceremonies. It was quite a busy evening with presentations from the major award winners and then formal presentations of the awards. The following captures the details of the evening.

The **AFPC/GlaxoSmithKline Graduate Student Research Award** went to **Marie Lordkipanidzé**, PhD candidate, Faculté de pharmacie, Université de Montréal: Award winning publication: “A comparison of six major platelet function tests to determine the prevalence of aspirin resistance in patients with stable coronary artery disease (European Heart Journal, (2007) 28, 1702–1708).”

The **AFPC/AstraZeneca New Investigator Research Award** recipient was **Frédéric Calon**, BSc, BPharm, Ph.D., Associate Professor, Faculté de pharmacie, Université Laval, Québec. Frédéric’s presentation was “Improving the pharmaceutical care of neurodegenerative diseases through basic research – a few examples of a long-term endeavor.”

The **AFPC/Pfizer Research Career Award** recipient was **Kishor M. Wasan**, B.Sc. (Pharmacy), Ph.D., Professor, Faculty of Pharmaceutical Sciences, University of British Columbia. Kishor spoke on the “Development and Evaluation of a Novel Oral Amphotericin B Formulation for the Treatment of Systemic Fungal Infections and Drug-Resistant Visceral Leishmaniasis (VL).

Antonia Tsallas (University of British Columbia) was the 2008 recipient of the **Merck Frosst Canada Postgraduate Pharmacy Fellowship Award**.

The **AFPC National Pharmacy Student Research Poster Awards** recipients were Mélanie Bousquet (Laval), JR Colin Enman (Dalhousie), Danny Constantini (Toronto), Daryl Fediuk (Manitoba), Sherif Hanafy Mahmoud (Alberta), Vincent Nichols (Montréal), Manhar Powar (UBC), Mohamed A Shaker (MUN), and Tara Smith (Saskatchewan).

Whit Matthews Best Poster Award: Tara Smith. **AFPC Best Poster Awards:** Melanie Bousquet and Daryl Fediuk.

This was the first year for the **Wal-Mart Canada/AFPC Future Academic Leader Awards**. Recipients were: Jennifer Beales (Toronto), Kelly Anne Grindrod (UBC), Stephanie Lucas (Dalhousie), Cynthia Lui (Manitoba) and Véronique Michaud (Montréal).

AFPC Honorary Life Membership Awards went to Ed Knaus of the University of Alberta and Thomas Einarson of the University of Toronto. Simon Albon was presented with the **Bristol-Myers Squibb Past President Award**.

The **AFPC 2009 Conference** in Halifax was originally going to be held jointly with the Canadian Pharmacists Association, an event we try to accomplish about every 3 years. Unfortunately for us, meeting space in Halifax was not sufficient to accommodate a joint conference and AFPC was relegated to meeting separately at the conclusion of the CPhA meetings. Because of this arrangement, there was some trepidation on my part that AFPC might suffer in attendance and sponsorship. These concerns proved to be unfounded because College of Pharmacy Director Rita Caldwell of Dalhousie University and her conference planning committee chaired by Anne Marie Whelan and Harriet Davies have done an outstanding job of developing the program. Attendance numbers appear to be one of our best in recent years and sponsorship is reasonably good given the economic downturn. Abstracts and poster presentations are close to 40 in number, a good turnout thanks to the faculty at Dalhousie University. The program has something to offer for just about everyone in pharmacy academia so we anticipate an excellent conference in Halifax.

The **AFPC 2010 Conference** will be held in conjunction with the Canadian Society for Pharmaceutical Sciences (CSPS). The conference and meetings will take place in the Olympic City of Vancouver and the University of British Columbia will be the host Faculty. Ingrid Price (UBC) will chair the AFPC planning committee with the help of Simon Albon (UBC). Kishor Wasan (UBC) will be the program planning chair for CSPS. The event will be held in the River Rock Casino Hotel near the airport. The Hotel is nicely situated on the bank of the Fraser River and will soon be serviced by the new Canada Line of Sky Train with 15 minute access to the waterfront downtown. All registrants will receive a 3-day transit pass as part of their registration package. Further details of the 2010 conference will be presented during the 2009 Conference in Halifax by the Chair of the programming committee. It will be a pleasure for me to be part of the host committee as well.

AFPC Awards:

I must congratulate Mary MacCara (Dalhousie) of doing an admirable job as awards chair. This is one of our busiest committees and under her direction we have made significant progress with respect to the responsibilities of the awards committee. Improvements have been made to the application process, awards have been reviewed for wording and to update needed eligibility requirements and new awards have been designed for council approval and to look for sponsorship. AFPC is blessed to have a significant awards program for a small organization but the challenge is to preserve the awards we have and to look for new award opportunities that better reflect the academic landscape in pharmacy.

This year AFPC was faced with AstraZeneca Canada stepping down from their sponsorship of the New Investigator Research Award which they had faithfully funded for many years. Fortunately, sanofi-aventis Canada was eager to step in as our new sponsor and we hope that this recent partnership with sanofi-aventis Canada will be a happy one for many years to come.

We have a new award this year sponsored by the Canadian Foundation for Pharmacy. The award is designed to recognize graduate students in Pharmacy Practice Research on the basis of their recently published work. The award is very similar to the GlaxoSmithKline Graduate Student

Research Award that traditionally, is won by a pharmacy graduate student in basic science research. Applications for the GSK Award have risen remarkably in recent years with a good portion of the applications coming from students in pharmacy practice type research. Hence the need for a new publication award. The pharmacy practice research award was hastily introduced for 2009 and based on feedback from faculty and stakeholders some rewording of the criteria for the award should be considered. The Council will undertake this task at the annual meetings in Halifax with the goal to meet our sponsor's needs and still be able to attract a significant number of worthy applicants on a yearly basis.

Work has been initiated to create a second award in pharmacy education. This new award will focus on innovation in teaching/learning and/or assessment by AFPC members. The award is intended to differ from the existing Bristol-Myers Squibb award for education that requires innovation plus long standing excellence and leadership in education.

The awards committee is also introducing a reworded version of the AFPC service award that will be known as the AFPC Woods – Hughes Special Service Award. The title of the award is to honor the founding principals of CCPF that later became AFPC. Congratulations are in order to the awards committee for their work in creating all of the details for this award.

AFPC is delighted that Wal-Mart Canada continues to provide a strong commitment to the Future Academic Leader award. Because of the location of the conference, we were able to award 6 students this year. Based on feedback from the inaugural recipients of this award in Chicago, AFPC asked Wal-Mart Canada to host a reception for the student winners and their mentors at the opening of the Halifax conference on June 3. The reception is intended to provide an opportunity for the award recipients to get to know one another and to meet personally with Wal-Mart Canada representatives. AFPC is immensely appreciative of the dedication and enthusiasm that Wal-Mart Canada has shown towards the Future Academic Leader Award.

Overall, the awards program of AFPC continues to be robust, based on the healthy number of applications that are now received for most of the awards. AFPC also enjoys having a generous number of faculty members who donate their time and talents to provide the necessary review of the applications. I would like to join awards committee chair, Mary MacCara in expressing our sincere appreciation for their help.

Blueprint for pharmacy: The blueprint for pharmacy has now moved into the implementation phase. CPhA recently distributed the implementation plan containing detailed recommendations for action from each of five working groups. The Education and Continuing Professional Development working group, for example, has 13 major actions, lists potential organizations that will lead the actions, describes expected deliverables for each action and lists the time frame in which they should occur. To assist the collaboration of leadership organizations to take action on the recommendations and if necessary to seek funding for projects, the implementation plan is accompanied by an operational framework. This framework lays out 10 projects that are required to change pharmacy practice. Under each of the projects are listed the key recommendations for action obtained from the implementation plan.

Distribution of these documents has been widespread to the Faculties and to other stakeholder organizations who have signed on to commit to the Blueprint for Pharmacy. The Deans (ADPC) and the Faculties (AFPC) began strategizing on action plans related to the Blueprint for Pharmacy at their midyear meetings in Montréal. At that time they agreed to hold a joint planning session on the implementation plans on June 4, 2009 during the AFPC Conference and Meetings in Halifax. PEP

Canada representatives will also attend the joint meeting. ADPC and AFPC will also be represented at the special pre-conference session on May 30 just prior to the start of the CPhA conference in Halifax. The recent decision by the CPhA board to endorse the Faculties of Pharmacy in transitioning from the bachelor of science degree to the Pharm D degree for entry to practice will certainly influence some of the discussions. During the development of the Blueprint for Pharmacy materials we need to acknowledge the valuable input and time commitments provided by Terri Schindel (Alberta) for AFPC and to Deans Dennis Gorecki (Saskatchewan) and Bob Sindelar (UBC) for ADPC.

Communications committee and web site:

Dan Thirion (Montréal) assumed the chairperson role of this committee as of the New Council Meeting in 2008. A major goal of the chair was to have the French language pages of the site updated to conform with the English version. Committee member Simon Albon (UBC) and the executive director were to work at moving the web site to a new site manager. The transfer of the AFPC site was undertaken by a Vancouver firm called Graphically Speaking in late 2008.

Unfortunately, the approach selected for the transfer was the least expensive method for AFPC. As a result of this decision, a number of problems have been created by trying to manage the old web site pages using a newer system. The most recent example was the on line conference registration where registrants either received no information or incorrect information when they registered. There is apparently no easy fix to these problems and after several meetings with the management firm, the conclusion was reached that we undertake a complete revamping of the web site. A proposal to that effect will be brought to Council for discussion and approval in June.

Many AFPC projects depend on an effective system for managing the web site, including the ability of committee members to edit the site (both official languages) on a timely basis. The research database is badly out of date. The Research Committee under the chair of John Hawboldt (MUN) has recommended restructuring of the research database to make it more user-friendly and to establish an efficient process for updating of researcher information.

The promised teaching database has still not seen the light of day. Program evaluation guides and tools are to be made available through the AFPC web site and to provide easy access to individuals in Faculties who are responsible for program evaluation. All these important projects will require the immediate attention of council to provide the communications committee with the necessary resources and direction to make the AFPC web site an effective communications tool.

Education Committee:

Nancy Waite (Waterloo) should be congratulated for breathing new life into the education committee since taking up the chairperson role 2 years ago. The committee has developed terms of reference and recommendations for membership of the committee. A proposed key role is to provide guidance on educational programming to be offered through the AFPC annual conference such as identifying themes for upcoming conferences, suggesting alternative program delivery methods and broadening the audience reached by the conference. A name change is proposed for the annual AFPC conference: "Canadian Pharmacy Education and Research Conference" (CPERC). A motion to approve will be made at the Annual General Meeting. The committee has suggested a needs assessment be conducted to discover if other pharmacy/healthcare educators would be interested in CPERC and how the program might be structured to meet their interests. Pharmacy educator groups such as CE/CPD program directors, pharmacy technician educators and lab instructor/coordinators are potential new audiences. As a result of this recommendation, representatives of the Canadian Pharmacy Technician Educators Association and the Canadian Association of Pharmacy Technicians have been invited to attend the 2009 conference in Halifax.

Educational Outcomes Project:

Following approval of the Deans at the ADPC annual meeting on September 1, 2008 in Basel, supplementary funding was provided for updating the educational outcomes for both professional degrees for entry to practice (BSc and entry level Pharm D). AFPC subsequently contracted Winslade Consultants Ltd of Pointe Claire, Quebec to undertake the revision of the educational outcomes and levels and ranges for both of the professional degree programs. Note that when the educational outcomes for the entry level Pharm D were approved in 2007, the levels and ranges for this degree were still to be developed.

The current project is to take no more than 18 months to complete and requires the input of an AFPC task force group to support the development of the educational outcomes. Volunteers who make up the task force group are Tom Brown (Toronto), Claude Mailhot (Montreal), Terri Schindel (Alberta) and Nancy Waite (Waterloo). The task force group had their first face-to-face meeting with Nancy Winslade on January 23 in the Faculté de pharmacie, Université de Montréal. Nancy Winslade made a presentation to AFPC Council at their midyear meeting in Montréal on January 25. At that time Council reiterated their desire to have a document(s) that either through the educational outcomes and/or the levels and contexts would be able to differentiate the two entry to practice degrees. The task force group is to meet again in Halifax on June 2 and Nancy Winslade will provide an update to Council at the annual council meeting on June 3, 2009. The work of this committee is essential to pharmacy education in Canada as we transition from the BSc Pharm programs into the entry level Pharm D.

Pharmacy Experiential Programs of Canada:

Nancy Waite, chair of the AFPC Education Committee and a representative to PEP Canada describes the committee as a most energized and enthusiastic group, committed to improving the practice experience learning of pharmacy students from across the country. The year's activities have been very positive for PEP Canada beginning with a strong contribution to the annual meeting in Chicago in 2008. In addition to Annie Lee (Toronto) presenting on patient safety initiatives in experiential training, the group presented 2 posters on PEP Canada activities and collaborated with the AACP experiential education section on program planning.

PEP Canada provided feedback to CCAPP on the draft standards for entry to practice degrees with emphasis on the Pharm D degree. A presentation by Louise Mallet and Tania Choquette (Montréal) on the development and challenges of a new experiential program as part of the entry level Pharm D curriculum is to be made on behalf of PEP Canada at the 2009 AFPC Conference in Halifax. The balance of the country will have much to learn from the Université de Montréal once the transition to the Pharm D degree begins in earnest.

Future initiatives include working to improve communications, developing a national preceptor training strategy and building capacity to meet enrollment increases and the need to provide longer duration and more advanced experiences as part of a Pharm D program.

Kelly Brink, co-chair (Manitoba) and Harriet Davies (Dalhousie – filling in for co-chair Wanda Spurrell of MUN) gave a presentation on PEP Canada activities for the Association of Deans of Pharmacy of Canada at their Midyear Meeting in Montréal in January of 2009. Louise Mallet (Montréal) and Nancy Waite (AFPC representative to PEP) were also in attendance. The Deans were pleased at the progress being made and asked that all PEP members communicate regularly with their respective Dean or Director. The PEP Canada group will hold their annual meeting in Halifax on June 2-3.

Program Evaluation Guide

Preparing an AFPC guide on program evaluation for Canadian Faculties of Pharmacy was initially a two-year project that began in 2006. At the annual meeting in Chicago in 2008, Ingrid Price (UBC), chair of the task force on program evaluation reported to the Deans that the initial work of the task force was complete. Ingrid gave a presentation of this work at a session on program evaluation during the AACP/AFPC joint conference in Chicago. Ingrid also implied to the Deans that there was still much work to be done before each Faculty might be comfortable with carrying out a complete version of program evaluation. The apparent anxiety of the Deans on this issue was eased somewhat during the 2009 midyear meeting of ADPC in Montreal when the Deans met with CCAPP executive director David Hill. Assurances were given to the Deans that what had been completed so far by the AFPC task force on program evaluation would meet CCAPP expectations. The Deans were also advised that the art of program evaluation was growing and to consider it as a work in progress.

One priority for the committee was to have the guide and process tools readily available on the AFPC web site for access by faculty individuals conducting program evaluation. A proposal to create this access has been obtained from the AFPC web site management company and will be discussed at the 2009 Annual Council Meeting. Feed back from faculty also identified the need to have support for individuals who are less comfortable about engaging the program evaluation process within their own Faculty. The committee chair was to consider visiting Faculties in need of help and working with the individual responsible for program evaluation. A sharing of experiences on the web site from those who have completed projects in program evaluation was thought to be highly beneficial for those contemplating program evaluation in other Faculties of Pharmacy. The need for additional resources to support the program evaluation process within a Faculty was a major item for the Deans to consider.

AFPC representation on pharmacy stakeholder initiatives and other external organizations:

Following the midyear meeting of AFPC in Montreal in January of 2009 President Roy Dobson and Executive Director Frank Abbott visited Pfizer Canada Inc. and Bristol-Myers Squibb Canada Inc to thank these two companies for the strong support they provide to our awards program and for sponsoring other AFPC activities. These were quite productive meetings and provided AFPC with the opportunity to communicate to our stakeholders some of the initiatives that AFPC is currently pursuing.

Your executive director met with Executive Director Carole Bouchard and President Sandra Carey of the **National Association of Pharmacy Regulatory Authorities (NAPRA)** in Vancouver on April 3, 2009. A good part of the discussion dealt with the Model Competencies and Standards of Practice for Canadian Pharmacists and the work that AFPC is engaged with the Educational Outcomes Project for the professional degrees in Pharmacy. NAPRA was very interested in knowing more about PEP Canada and the co-chairs of PEP Canada were contacted to begin arrangements for an information session that would benefit the NAPRA organization.

On April 24th your executive director met with Dayle Acorn, Executive Director of the **Canadian Foundation for Pharmacy**. Fund raising strategies were shared and considerable discussion regarding CFP sponsorship of the new AFPC Pharmacy Practice Research Award ensued.

AFPC is a voting member of the **Canadian Patient Safety Institute** and Rita Caldwell serves as our official representative. In March of 2009 the CPSI called for volunteers to sit on the **Implementation Advisory Committee for the Safety Competencies**. The intent of this competency review is to “rely on the advice and experience of content and process experts to

inform the strategies that will be needed to engage educators in academia and workplace settings to integrate the *Safety Competencies* into curricula and professional practice, to develop the appropriate support and tools needed to sustain early adopters, and to assist in the development of the second edition of the *Safety Competencies*.” With the focus being on interprofessional education, individuals with knowledge and experience with inter-professional education and practice, were preferred. Andrea Cameron of the University of Toronto was approached to serve as the AFPC representative on this committee and AFPC is grateful that she has accepted the task.

Anne Marie Whelan (Dalhousie) has recently been appointed AFPC representative to the **Pharmacy Examining Board of Canada**. Anne Marie replaces Louise Mallet (Montréal) who just completed her two terms as AFPC representative to PEBC. AFPC has two representatives on PEBC with Lavern Vercaigne (Manitoba) appointed the previous year.

In 2008, Carmen Vézina (Université Laval) joined Susan Mansour (Dalhousie) as one of two AFPC representatives to serve on the board of the Canadian Council for the Accreditation of Pharmacy Programs (**CCAPP**).

Association of Deans of Pharmacy of Canada (ADPC):

The **annual meeting** of ADPC was held September 1 during the FIP meeting, August 31 – September 4, 2008 in Basel Switzerland. Dr. Kamal Midha (President of FIP, Adjunct Professor of Pharmacy, U of Sask) invited the Deans group to the President’s reception and facilitated a meeting of ADPC with members of the FIP Global Pharmacy Education Initiative. ADPC members attended the Academic Section dinner which was also well attended by representatives from AACP. Overtures were made to both AACP and ADPC to become member organizations of FIP.

ADPC enjoyed a very successful midyear meeting in Montreal in January of 2009. Besides the presentation from the PEP group, the Deans invited David Hill, the executive director of CCAPP, to discuss ways to facilitate and perhaps streamline the process of preparing documentation for accreditation. This was a very fruitful discussion and David Hill took away several good ideas that could be evaluated by the CCAPP Board. In other activities, the Deans used both the Blueprint for Pharmacy document and Moving Forward recommendations as part of their strategic planning session. Revising the benchmark document to simplify data collection within the Faculties was another important item of business.

A small group of the Deans will be meeting with the executive of the Canadian Society of Hospital Pharmacists on June 2, 2009 in Halifax. Agenda items include experiential training, establishing interprofessional best practices and the CSHP position on the entry level Pharm D degree.

The joint Blueprint for Pharmacy meeting of ADPC and AFPC in Halifax on June 4, 2009 will most likely be the last meeting for three individuals who are completing their terms as Deans. Franco Pasutto (Alberta), Dennis Gorecki (Saskatchewan) and Wayne Hindmarsh (Toronto) have all given outstanding service to both our organizations and they will be deeply missed. With the stepping down of ADPC president Franco Pasutto, Jake Thiessen, Hallman Director of the School of Pharmacy, University of Waterloo will assume the Presidency of ADPC at the 2009 annual meeting that is to be held in Charlottetown, PEI, October 3-5, 2009. Three new Deans are expected to be in attendance at that meeting: James Kehrer (Alberta) David Hill (Saskatchewan), and Henry Mann (Toronto).

Thank you:

In this my sixth and penultimate year as Executive Director of AFPC/ADPC, may I express my sincere thank you and appreciation to the Council and Executive of AFPC and the Executive of

ADPC for their generous support and help during a busy year. It has been my pleasure to work closely with President Roy Dobson of AFPC and President Franco Pasutto of ADPC. Both have provided excellent leadership and support. I am looking forward to working with incoming AFPC President Mike Namaka and incoming ADPC President Jake Thiessen in the year ahead as we take on the challenges of the Vision for Pharmacy in Canada.

Respectfully submitted,
Frank S. Abbott, PhD
May 31, 2009

PART 4.0

AFPC FINANCIAL STATEMENTS 2008

AND

BUDGET 2009

**ASSOCIATION OF FACULTIES OF
PHARMACY OF CANADA**

Vancouver, B.C.

FINANCIAL STATEMENTS

December 31, 2008

WOLRIGE MAHON *LLP*



WOLRIGE MAHON_{LLP}
Chartered Accountants

AUDITORS' REPORT

To the Members of the Association of Faculties of Pharmacy of Canada:

We have audited the balance sheet of the Association of Faculties of Pharmacy of Canada as at December 31, 2008 and the statement of revenue, expenditures and net assets for the year then ended. These financial statements are the responsibility of the Association's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the Association as at December 31, 2008 and the results of its operations for the year then ended in accordance with Canadian generally accepted accounting principles.

"Wolrige Mahon LLP"

CHARTERED ACCOUNTANTS

Vancouver, B.C.
April 3, 2009

ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA

STATEMENT OF REVENUE, EXPENDITURES AND NET ASSETS

For the year ended December 31, 2008

	2008 \$	2007 \$
Revenue , Schedule 1	168,990	174,017
Expenditures , Schedule 2	176,978	158,480
Excess (deficiency) of revenues over expenditures	(7,988)	15,537
Net assets, beginning	207,787	192,250
Net assets, ending	199,799	207,787

ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA

BALANCE SHEET

December 31, 2008

	2008	2007
	\$	\$
Assets		
Current		
Cash	39,181	61,559
Receivables	5,697	7,995
	<u>44,878</u>	<u>69,554</u>
Investments (Note 4)	154,921	147,358
	<u>199,799</u>	216,912
Liabilities		
Current		
Payables and accruals	-	3,625
Deferred contributions	-	5,500
	<u>-</u>	<u>9,125</u>
Net Assets	199,799	207,787
	<u>199,799</u>	216,912

Approved by Council:

ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA

NOTES

For the year ended December 31, 2008

Note 1 General

The Association of Faculties of Pharmacy of Canada is an association of faculties of pharmacy whose members are committed to the promotion and recognition of excellence in pharmacy education and scholarly activities.

Note 2 Significant Accounting Policies

Use of Estimates

The preparation of financial statements in conformity with Canadian generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Financial Assets and Financial Liabilities

Effective January 1, 2007, the Association adopted the new accounting standard, Section 3855 of the CICA Handbook, "Financial Instruments - Recognition and Measurement". This section requires all financial instruments to be classified into one of the following five categories: held-for-trading, held-to-maturity investments, loans and receivables, available-for-sale financial assets or other financial liabilities. All financial instruments are measured at fair value, except for loans and receivables, held-to-maturity investments and other financial liabilities, which are measured at amortized cost. It also specifies how financial instrument gains and losses are to be recognized depending on their classification. Depending on the financial instruments' classification, changes in subsequent measurements are recognized in net income or directly in net assets. The Association's designations are as follows:

Cash and equivalents are designated as held-for-trading and are measured at fair value.

Investments are classified as held-for-trading and are measured at fair value.

Receivables are classified as loans and receivables and are measured at amortized cost.

Payables and accruals are classified as other financial liabilities and are measured at amortized cost.

Revenue Recognition

The Association follows the deferral method of accounting for contributions. Restricted contributions are recognized as revenue in the year in which the related expenses are incurred. Unrestricted contributions are recognized as revenue when received or receivable if the amount to be received can be reasonably estimated and collection is reasonably assured.

ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA

NOTES

For the year ended December 31, 2008

Note 3 Financial Instruments

Items that meet the definition of a financial instrument include cash, investments, receivables, and payables and accruals. The fair value of these items approximates their carrying value. It is management's opinion that the Association is not exposed to significant credit, currency or interest rate risk arising from these financial instruments.

Note 4 Investments

	2008	2007
	\$	\$
CIBC GIC - Jan 2/08 4.30%	-	14,224
CIBC GIC - Jan 4/10 4.25%	17,557	-
CIBC GIC - Oct 28/08 2.35%	-	21,855
CIBC GIC - Oct 28/11 2.50%	23,432	-
CIBC GIC - Oct 30/08 3.10%	-	21,971
CIBC GIC - Nov 1/10 3.70%	23,354	-
CIBC GIC - Jun 28/10 3.45%	23,439	23,439
CIBC GIC - Jun 27/12 3.70%	24,909	24,909
CIBC GIC - Jan 11/08 3.10%	-	40,960
CIBC GIC - Jan 12/09 3.10%	42,230	-
	<hr/>	<hr/>
	154,921	147,358

Note 5 Capital Disclosures

The Association maintains adequate cash to meet current payment obligations and planned program expenditures. Pending actual disbursements for budgeted program expenditures, funds are invested in securities designed to maximize return, while minimizing risk and maintaining flexibility. The investment objectives are subject to limitations defined by Council and are set to provide maximum current income within the approved risk parameters.

The Association considers its capital structure to consist of members' net assets. The Association is not subject to external restrictions on its net assets.

Note 6 Statement of Cash Flows

A statement of cash flows has not been prepared as it would not provide any additional information.

ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA Schedule 1

SCHEDULE OF REVENUE

For the year ended December 31, 2008

	2008	2007
	\$	\$
Memberships		
Faculty	87,677	84,526
Affiliate	16,800	15,600
Associate	525	525
Awards		
AstraZeneca	3,000	3,000
Bristol-Meyers Squibb	-	1,255
GlaxoSmithKline	2,409	1,998
Merck Frosst	15,000	15,000
Pfizer	1,831	2,422
Wal-Mart Canada	10,000	-
Other		
Annual conference	(18,919)	19,805
Interest income	5,267	4,686
Web Site advertising	400	200
Program evaluation	25,000	25,000
Rx & D grant for teaching database	8,000	-
Task Force SPEP (PEP Canada)	12,000	-
	168,990	174,017

ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA Schedule 2

SCHEDULE OF EXPENDITURES

For the year ended December 31, 2008

	2008	2007
	\$	\$
Meetings		
AGM council	29,990	18,725
Mid-Year council	11,249	9,013
AACP AGM	-	1,601
Mid-Year AACP	991	-
CCCEP	788	1,325
President Travel to CSHP	-	2,185
Blueprint for Pharmacy	2,567	3,712
ADPC travel, Executive director	4,000	2,391
HRSDC Project	-	408
NAPRA Workshop	-	1,710
PharmCare	-	1,052
PEP Canada	10,799	-
Operating		
Audit services	2,310	2,226
Bank charges	198	105
Canada Revenue Agency	30	30
Computer expenses	182	56
Courier	49	78
Database	-	1,445
Executive director-honorarium	42,000	42,400
Executive director-travel grant	3,049	3,919
Internet services	568	675
Office supplies	270	483
Postage	91	328
Printing	185	661
Teleconferencing	496	1,085
Telephone and fax	601	585
Website maintenance	2,934	922
Miscellaneous	711	554
Other		
CCAPP	9,844	7,950
Program evaluation	5,622	17,010
Task force SPEP	-	762
Miscellaneous	550	486

ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA **Schedule 2**

SCHEDULE OF EXPENDITURES

(continued)

For the year ended December 31, 2008

	2008	2007
	\$	\$
Awards		
AFPC Whit Matthews	500	600
AstraZeneca	2,928	2,615
Bristol-Meyer Squibb	-	1,000
AFPC poster awards	1,000	1,000
AFPC travel grants	14,345	9,963
GSK Grad student	2,615	1,998
Merck Frosst fellowship	15,000	15,000
Pfizer	1,831	2,422
Wal-Mart Canada	8,685	-
	176,978	158,480

2008 AFPC Financial Statement with 2007 Actual

	2007 ACTUAL	2008 BUDGET	2008 ACTUAL
INCOME			
Memberships			
FACULTY	\$84,526.00	\$87,677.00	\$87,677.00
AFFILIATE	\$15,600.00	\$16,800.00	\$16,800.00
ASSOCIATE	\$525.00	\$525.00	\$525.00
TOTAL MEMBERSHIPS	\$100,651.00	\$105,002.00	\$105,002.00
OTHER INCOME			
ANNUAL CONF	\$20,057.02 *	\$10,000.00	(\$18,918.69)
INTEREST	\$4,684.85	\$4,300.00	\$5,267.00
Rx & D GRANT	\$0.00	\$4,000.00	\$0.00
Web Site Advertising	\$200.00	\$600.00	\$400.00
TOTAL OTHER INCOME	\$24,941.87	\$18,900.00	(\$13,251.69)
Awards			
AstraZeneca	\$3,000.00	\$3,000.00	\$3,000.00
Bristol-Myers Squibb	\$1,255.00	\$2,000.00	\$0.00
GlaxoSmithKline	\$1,998.36	\$2,500.00	\$2,408.75
Merck Frosst	\$15,000.00	\$15,000.00	\$15,000.00
Pfizer	\$2,421.54	\$2,500.00	\$1,831.14
Wal-Mart Canada		\$10,000.00	\$10,000.00
TOTAL AWARDS	\$23,674.90	\$35,000.00	\$32,239.89
Miscellaneous			
Task Force SPEG (PEPCanada)		\$12,000.00	\$12,000.00
Program Evaluation	\$25,000.00	\$25,000.00	\$25,000.00
Rx&D Sponsorship of Teaching Database		\$8,000.00	\$8,000.00
	\$25,000.00	\$45,000.00	\$45,000.00
TOTAL INCOME	\$174,267.77 *	\$203,902.00	\$168,990.20

* Income includes receivable conference income of \$252.

	2007 ACTUAL	2008 BUDGET	2008 ACTUAL
EXPENSES			
Meeting Expenses			
AGM Council	\$18,724.92	\$24,000.00	\$29,989.93
Mid-year Coun.	\$9,013.42	\$11,000.00	\$11,249.29

AACP AGM	\$1,600.95	\$0.00	\$0.00
AACP meeting planning	\$0.00	\$1,500.00	\$991.47
CCCEP	\$1,325.00	\$1,325.00	\$787.50
CPhA National Forum	\$0.00	\$0.00	\$0.00
President travel to ADPC AM	\$0.00	\$0.00	\$0.00
President travel to CSHP	\$2,185.48	\$2,000.00	\$0.00
Blueprint for Pharmacy Mtg.	\$3,712.32	\$3,000.00	\$2,567.29
ADPC Travel, Ex Dir	\$2,391.24	\$4,000.00	\$4,000.00
HRSDC Project-meetings	\$407.62	\$1,000.00	\$0.00
Pharm Care in North Amer Conf	\$1,051.93	\$0.00	\$0.00
NAPRA Vision Workshop	\$1,709.57	\$0.00	\$0.00
PEP Canada Annual Mtg Expenses		\$12,000.00	\$10,733.51
Newsletter Editor-Meeting Expenses			\$615.00
Total Meeting Expenses	\$42,122.45	\$59,825.00	\$60,933.99

Operating Expenses

Audit services	\$2,226.00	\$2,310.00	\$2,310.00
Bank charges	\$104.85	\$160.00	\$197.69
Computer expenses	\$56.07	\$200.00	\$182.03
Exec. Dir. Honor.	\$42,400.00	\$42,000.00	\$42,000.00
E.D. travel grant	\$3,918.58	\$3,000.00	\$3,049.05
Office Supplies	\$482.91	\$500.00	\$269.64
Photocopies	\$0.00	\$50.00	\$0.00
Printing	\$660.64	\$600.00	\$184.80
Postage	\$328.28	\$300.00	\$90.59
Courier	\$78.10	\$100.00	\$48.53
Telephone/fax	\$584.72	\$600.00	\$601.00
Teleconferencing	\$1,084.64	\$1,000.00	\$496.21
Internet Services	\$674.87	\$700.00	\$567.76
Web site maint.& develop	\$922.20	\$2,000.00	\$2,934.10
Database	\$1,445.00	\$ 4,000.00	\$0.00
Corporations Directorate	\$30.00	\$30.00	\$30.00
Secretarial and certificates	\$500.00	\$500.00	\$612.00
Receiver General-Gazette Costs	\$0.00	\$100.00	\$85.00
Misc Exp Ex Director	\$53.70	\$100.00	\$14.00
Total - operating	\$55,550.56	\$58,250.00	\$53,672.40

Other Expenses

CCAPP	\$7,950.00	\$9,843.75	\$9,843.75
Task Force SPEP	\$762.01	\$0.00	\$0.00
Program Evaluation Costs	\$17,009.62	\$25,000.00	\$5,621.71
Editing of ELPD Edu Outcomes	\$200.00	\$0.00	\$0.00
Translation Services	\$150.00	\$200.00	\$0.00
AACP Program Disk	\$135.78	\$150.00	\$0.00
Total Other Expenses	\$26,207.41	\$35,193.75	\$15,465.46

Awards

AstraZeneca	\$2,615.22	\$2,500.00	\$2,928.34
Bristol-Myers Sq.	\$1,000.00	\$2,400.00	\$0.00
AFPC student travel grants	\$9,962.94	\$11,000.00	\$14,344.71
AFPC Best Poster Awards	\$1,000.00	\$1,000.00	\$1,000.00
AFPC Whit Matthews	\$600.00	\$500.00	\$500.00
Merck Frosst Fellowship	\$15,000.00	\$15,000.00	\$15,000.00
Pfizer	\$2,421.54	\$2,500.00	\$1,831.14
GSK grad student	\$1,998.36	\$2,500.00	\$2,614.96
Wal-Mart Canada		\$10,000.00	\$8,685.14
Rx&D grant	\$0.00	\$4,000.00	\$0.00
Total Awards Expenses	\$34,598.06	\$51,400.00	\$46,904.29

TOTAL EXPENSES **\$158,478.48 *** **\$204,668.75** **\$176,976.14**

Surplus(Deficit) **\$15,789.29 *** **(\$766.75)** **(\$7,985.94)**

**AFPC Annual General Meeting
Halifax, June 4, 2009**

2009 AFPC Budget with 2008 Actual

	2008 ACTUAL	2009 BUDGET
INCOME		
Memberships		
FACULTY	\$87,677.00	\$88,328.00
AFFILIATE	\$16,800.00	\$10,800
ASSOCIATE	\$525.00	\$525.00
TOTAL MEMBERSHIPS	\$105,002.00	\$99,653.00
OTHER INCOME		
ANNUAL CONF	(\$18,918.69) *	\$15,000
INTEREST	\$5,267.00	\$5,500.00
Web Site Advertising	\$400.00	\$600.00
TOTAL OTHER INCOME	(\$13,251.69)	\$21,100.00
Awards		
AstraZeneca	\$3,000.00	\$0.00
Bristol-Myers Squibb	\$0.00	\$1,500.00
Canadian Foundation for Pharmacy		\$1,500.00
GlaxoSmithKline	\$2,408.75	\$2,500.00
Merck Frosst	\$15,000.00	\$15,000.00
Pfizer	\$1,831.14	\$2,500.00
Rx & D Industrial Visitation	\$0.00	\$4,000.00
sanofi-aventis		\$3,000.00
Wal-Mart Canada	\$10,000.00	\$10,000.00
TOTAL AWARDS	\$32,239.89	\$40,000.00
Miscellaneous		
Educational Outcomes Project		\$30,000.00
Program Evaluation	\$25,000.00	\$0.00
Rx&D Sponsorship of Teaching		\$0.00
Database	\$8,000.00	\$0.00
Task Force SPEP (PEPCanada)	\$12,000.00	\$0.00
Total Miscellaneous Income	\$45,000.00	\$30,000.00
TOTAL INCOME	\$168,990.20	\$190,753

EXPENSES	2008 ACTUAL	2009 Budget
Meeting Expenses		
AACP AGM	\$0.00	\$1,800.00
AACP meeting planning	\$991.47	\$0.00
ADPC Travel, Ex Dir	\$4,000.00	\$3,000.00
AFPC Mid-year Council	\$11,249.29	\$14,000.00
AGM Council	\$29,989.93	\$20,000.00
Blueprint for Pharmacy Mtg.	\$2,567.29	\$1,000.00
CCCEP	\$787.50	\$600.00
Newsletter Editor-Meeting Expenses	\$615.00	\$0.00
PEP Canada Annual Mtg Expenses	\$10,733.51	\$750.00
President travel to ADPC AM	\$0.00	\$0.00
President travel to CSHP	\$0.00	\$1,700.00
Total Meeting Expenses	\$60,933.99	\$42,850.00
Operating Expenses		
Audit services	\$2,310.00	\$2,415.00
Bank charges	\$197.69	\$200.00
Computer expenses	\$182.03	\$200.00
Corporations Directorate	\$30.00	\$30.00
Courier	\$48.53	\$50.00
DOLI - Insurance		\$1,500.00
Exec. Dir. Honor.	\$42,000.00	\$42,000.00
E.D. travel grant	\$3,049.05	\$2,000.00
Misc Exp Ex Director	\$14.00	\$50.00
Office Supplies	\$269.64	\$300.00
Photocopies	\$0.00	\$50.00
Printing	\$90.59	\$1,200.00
Postage	\$184.80	\$400.00
Secretarial and certificates	\$612.00	\$900.00
Telephone/fax	\$601.00	\$600.00
Teleconferencing	\$496.21	\$500.00
Internet Services	\$567.76	\$600.00
Web site maint.& develop	\$2,934.10	\$4,000.00
Database	\$0.00	\$2,000.00
Receiver General-Gazette Costs	\$85.00	\$0.00
Volunteer Canada Membership		\$100.00
Total - operating	\$53,672.40	\$59,095.00
Other Expenses		
CCAPP	\$9,843.75	\$8,925.00
Educational Outcomes Project		\$20,000.00
Program Evaluation Costs	\$5,621.71	\$7,000.00
Translation Services	\$0.00	\$200.00
Total Other Expenses	\$15,465.46	\$36,125.00
Awards		

AFPC student travel grants	\$14,344.71	\$12,000.00
AFPC Best Poster Awards	\$1,000.00	\$1,000.00
AFPC Whit Matthews	\$500.00	\$500.00
AstraZeneca	\$2,928.34	\$0.00
Bristol-Myers Sq.	\$0.00	\$1,500.00
Canadian Foundation for Pharmacy		\$1,500.00
GSK grad student	\$2,614.96	\$2,500.00
Merck Frosst Fellowship	\$15,000.00	\$15,000.00
Pfizer	\$1,831.14	\$2,500.00
Rx & D Industrial Visitation	\$0.00	\$4,000.00
sanofi-aventis		\$2,500.00
Wal-Mart Canada	\$8,685.14	\$9,500.00
Total Awards Expenses	\$46,904.29	\$52,500.00
TOTAL EXPENSES	\$176,976.14	\$190,570.00
Surplus(Deficit)	(\$7,985.94)	\$183.00