



Building the future of pharmacy:  
**We are the  
Agents of Change**

May 31 - June 2, 2016 | River Rock Casino, Richmond, BC



ASSOCIATION OF FACULTIES  
OF PHARMACY OF CANADA | ASSOCIATION DES FACULTÉS  
DE PHARMACIE DU CANADA



a place of mind  
THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Pharmaceutical Sciences**

73rd Annual General Meeting of the AFPC  
7th Annual Canadian Pharmacy Education & Research Conference



# Table of Contents

1	Welcome from Charles Park, CPERC Conference Chair, 2016 Planning Committee
2	Welcome from Michael Coughtrie, AFPC President and Dean of the Faculty of Pharmaceutical Sciences, University of British Columbia
3	AFPC Board of Directors
4	AFPC Council of Faculties
5	Looking to CPERC 2017
6	Conference Program
7	Session Information
8	Roundtable Information
9	Award Winners
10	Poster Listings
11	Conference and Award Sponsors
12	Map of River Rock Hotel and Casino

# Welcome



**Welcome from Charles Park  
CPERC Conference Chair, 2016 Planning Committee**

Hello everyone and welcome to the beautiful west coast! We are pleased to host our colleagues from across the country and hold the 7th Annual CPERC Conference and 73rd Annual General Meeting for AFPC.

We are holding this conference in conjunction with the Canadian Society for Pharmaceutical Sciences Annual symposium. This will allow us to showcase our work to a greater audience and gives us an opportunity to network with a larger group of our colleagues.

This year we are focusing on the changing landscape of both pharmacy practice and education. We will open the conference with a talk from Dr. Peter Zed, who is the Dean of Practice Innovation here at UBC. We will have plenary sessions focusing on Experiential Education, Program Assessment and Evaluation, and Pharmacy Informatics. We also have roundtable sessions, mini-sessions as well as a joint-session discussing the integration of the pharmaceutical sciences into PharmD curriculum. Dr. Scott Singleton from the University of North Carolina-Chapel Hill is the invited speaker for this session.

We are very excited for this year's Awards Banquet, which will be aboard the beautiful MV Queen of Diamonds. This will be a 3-hour cruise around beautiful False Creek and Stanley Park. You will be able to view our beautiful city from the water and witness a stunning sunset from the boat.

This year's conference was planned by a local committee along with the help of Dr. Jamie Kellar (U of T, Chair of Education Committee). The committee members include Dr. Fong Chan, Ms. Lynda Eccott, Dr. Mark Harrison, Dr. Angie Kim-Sing, Ms. Tessa Nicholl, Dr. George Pachev, Dr. Marion Pearson, and Mr. Tony Seet. Also, a HUGE thank you to Jimi Galvao, Ivan Yastrebov and Julia Kreger from the UBC PharmSci Marketing team for helping assemble all the wonderful programs and signage for the conference. We had an amazing number of submissions for both the presentations as well as abstracts and we hope that you enjoy the conference as much as we did putting this together.

On behalf of the entire planning committee, I want to welcome you to our beautiful city and I hope you learn lots and enjoy your time at the conference.

Sincerely,

Charles Park, B. Sc. Pharm, PharmD

# Welcome



**Welcome from Michael Coughtrie**  
**Dean, Faculty of Pharmaceutical Sciences, University of British Columbia (UBC)**  
**President, Association of Faculties of Pharmacy of Canada (AFPC)**

As Dean of the Faculty of Pharmaceutical Sciences at the University of British Columbia and President of AFPC, it gives me great pleasure to welcome you all to the 73rd AFPC Annual General Meeting and 7th Annual Canadian Pharmacy Education & Research Conference (CPERC). I look forward to exploring this year's theme — Building the future of pharmacy: We are the agents of change — in the engaging sessions we have planned, and to celebrating the excellent work that we all do in advancing pharmacy education, research and practice.

If there is a single word that can best summarize the current state of affairs with respect to the profession, it is "change." The scope of what a pharmacist can do continues to evolve, and requires the ability to function in an increasingly complex environment involving issues such as personalized medicine, interdisciplinary health care and physician assisted death. Our respective pharmacy curricula, in turn, have also evolved in order to educate the pharmacists of the future to not only take advantage of this expanded scope of practice but also to be the leaders that the profession needs. Many pharmacy schools in Canada have already moved to offering entry-to-practice Doctor of Pharmacy programs, with others presently in the process of developing them — this provides a fantastic opportunity for innovative research and scholarship. With respect to research, wholly inadequate resources and poor oversight of some funding agencies continue to present a serious challenge. However, the need for new discoveries and their translation into clinical practice is as urgent as it has ever been. For these and so many other reasons, now is definitely the time to build our future — to be agents of change.

I would like to take this opportunity to acknowledge and thank our esteemed session speakers and facilitators, the members of the Conference Organizing Committee and our generous sponsors. Without their commitment and enthusiasm, we would not be able to host such events and share our collective knowledge.

May you all enjoy the conference and, for those of you visiting Vancouver, our beautiful city.

Sincerely,

Michael Coughtrie, PhD



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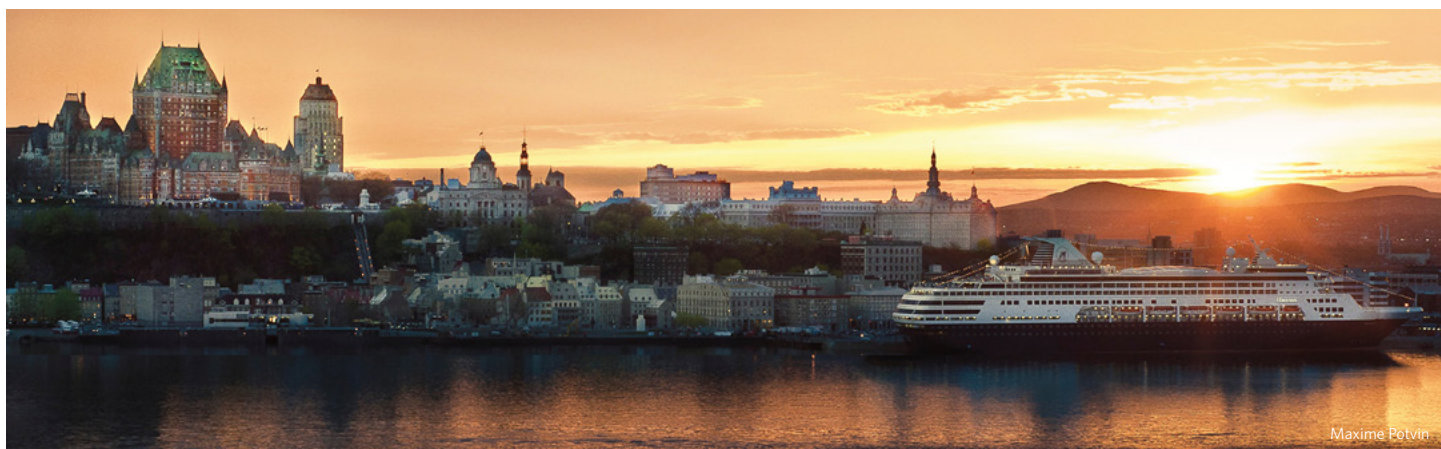
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# Looking to CPERC 2017

Join us in Quebec city for the 2017 Annual AFPC Canadian Pharmacy Education and Research Conference (CPERC). We are partnering with the Canadian Pharmacists Association for the 2017 Canadian Pharmacists Conference. The preliminary schedule includes 2 AFPC education days on May 31 and June 1. The joint education programs will take place June 2-5, 2017. Information about registration and accommodation will be available in spring 2017. We look forward to seeing you there.



# Conference Program

## TUESDAY, MAY 31, 2016

1400 - 1700	<b>Conference Registration</b> <i>Ballroom Foyer</i>	1630 - 1700	<b>AFPC Voting Members AGM</b> <i>Whistler Ballroom C</i>
0800 - 1600	<b>AFPC Council of Faculties AGM</b> <i>Whistler Ballroom C</i>	1730 - 1900	<b>Welcome Reception</b> <i>River Rock Theatre</i>
1600 - 1630	<b>AFPC Board of Directors AGM</b> <i>Whistler Ballroom C</i>		

## WEDNESDAY, JUNE 1, 2016

0700 - 1530	<b>Conference Registration</b> <i>Ballroom Foyer</i>		
0700 - 0830	<b>Buffet Breakfast</b> <i>Fraser Room</i>		
0700 - 0815	<b>Skills Lab SIG Business Meeting</b> <i>Similkameen Room</i>		
0800 - 0830	<b>Updates in Pharmacy Research in Canada</b> Speaker: Dr. Kishor Wasan, Dean, College of Pharmacy and Nutrition, University of Saskatchewan <i>Fraser Room</i>		
0830 - 1000	<b>Welcome Remarks</b> <b>Academic Leadership in Pharmacy Practice Innovation</b> Speaker: Dr. Peter Zed, Associate Dean - Practice Innovation, University of British Columbia <i>Fraser Room</i>		
1000 - 1030	<b>Coffee Break</b> Networking, Poster Viewing <i>River Rock Theatre</i>		
1030 - 1200	<b>Trajectories of the Canadian Experiential Education Project</b> Session Summary: The CanExEd Project has launched a series of 7 reports addressing priority issues for ExEd on a national scale as curricula transforms into entry-level Doctor of Pharmacy degrees. The comprehensive evidence-based recommendations and prototypes of CanExEd presented in this session are inciting commitment from internal and external ExEd stakeholders. The session panelists are gathering at a seminal time to discuss the future trajectory of ExEd and the resourcing required for realizing CanExEd's full potential. Note: The panel session facilitates audience contribution via smartphone feedback surveys and Q&A session. <i>Fraser Room</i>		
1200 - 1330	<b>Lunch</b> AFPC Annual Business and Town Hall Meeting <i>Fraser Room</i>		
1330 - 1500	<b>Innovative Curricular Change and Practice Change Advocacy Roundtable Session</b> <i>Fraser Room</i>		
1500 - 1530	<b>Coffee Break</b> Networking, Poster Viewing <i>River Rock Theatre</i>		



# Conference Program

- 1530 - 1700      **Concurrent Sessions**  
Session A: Building the Future: From Theory to Practice  
*Fraser Room*  
Session B: Building the Future: Working with Others  
*Thompson Room*
- 1730              **Buses Leave for Awards Dinner - To False Creek**
- 1800 - 2200      **AFPC Awards Banquet and Dinner on Harbour Cruises**

## THURSDAY, JUNE 2, 2016

- 0700 - 1030      **Conference Registration**  
*Ballroom Foyer*
- 0700 - 0830      **Buffet Breakfast**  
*Fraser Room*
- 0700 - 0815      **Assessment and Program Evaluation SIG Business Meeting**  
*Lillooet Room*
- 0700 - 0815      **Informatics SIG Business Meeting**  
*Similkameen Room*
- 0830 - 1000      **From Performance Assessment to Program Evaluation**  
Session Summary: Active learning, simulation, experiential and work-based learning approaches have gained significant ground in pharmacy education over the past decade. Such leaps forward has lead scholars into challenging common assessment practices and in promoting assessment as an inescapable component for both, guiding student learning and, providing valid and reliable evidence of learning. By a journey into three assessment program, this session will challenge participants in reflecting on, how can innovative assessment practices and sustainable assessment-related research collaboration become a fertile ground for quality pharmacy education in Canada.  
*Fraser Room*
- 1000 - 1030      **Coffee Break**  
Networking, Poster Viewing  
*River Rock Theatre*
- 1030 - 1200      **Pharmacy Informatics: Reflecting on the project and considering the next steps**  
Session Summary: The Pharmacy Educator Peer Leader Network (PEPLN) was an initiative between AFPC and Canada Health Infoway. The goal of PEPLN was to integrate pharmacy informatics competencies into curricula using the Informatics for Pharmacy Students e-Resource. During this session peer leaders from across the country will share their experiences and lessons learned from their integration projects. The next steps for the project will be discussed including the introduction of Version 2 of the e-Resource.  
*Fraser Room*
- 1200 - 1300      **Boxed Lunch**  
Networking, Poster Viewing  
*River Rock Theatre*



# Conference Program

1300 - 1400

## **Concurrent Sessions**

Session A: Building the Future: Innovations to Scholarship of Teaching and Learning – Closing the Loop

*Fraser Room*

Session B: Building the Future: Teaching the Next Generation

*Thompson Room*

1400 - 1430

## **Coffee Break**

Networking, Poster Viewing

*River Rock Theatre*

1430 - 1600

## **Joint Session: Integration of fundamental Pharm Sci into the Pharm D programs**

Speaker: Dr. Scott Singleton, Associate Professor, University of North Carolina at Chapel Hill

Moderator: Dr. Simon Albon, Professor of Teaching, University of British Columbia

*Fraser Room*

1600 - 1700

## **Curriculum Design and Innovation: Putting it together**

Speaker: Dr. Sandra Jarvis-Selinger, Associate Dean - Academic, University of British Columbia

*Fraser Room*

# Session Information

## June 1

0800 - 0830

### **Updates in Pharmacy Research in Canada**

Speaker: Dr. Kishor Wasan, Professor and Dean, College of Pharmacy and Nutrition, University of Saskatchewan

Session Summary: Over the last 10 years the funding of pharmaceutical sciences research and research within pharmacy schools in Canada from the major granting agencies (i.e. CIHR and NSERC) appears to have significantly decreased. This presentation will present data to support this claim and provide possible suggestions and solutions on how to enhance funding for pharmaceutical sciences research and research within pharmacy schools in Canada.

0830 - 1000

### **Opening Session - University-led Practice Change and Curriculum Innovation**

Speaker: Dr. Peter Zed, Professor and Associate Dean, Practice Innovation, University of British Columbia



Biography: Dr. Peter J. Zed completed a Bachelor of Science in Chemistry (Dalhousie University), Bachelor of Science in Pharmacy (Memorial University of Newfoundland), pharmacy practice residency with the Royal Columbian Hospital, and Doctor of Pharmacy (The University of British Columbia). He is currently Professor and Associate Dean, Practice Innovation, Faculty of Pharmaceutical Sciences and Associate Member, Department of Emergency Medicine, Faculty of Medicine at UBC. Dr. Zed has maintained a clinical practice in Emergency Medicine since 1998 and has established a practice in two tertiary-care academic emergency departments. Within this practice specialty, he has sustained a productive research program for both clinical and practice-based research with a consistent record of extra-mural funding. He has also been actively involved in teaching undergraduate pharmacy students, pharmacy residents, PharmD students, and other health care professionals. He has a number of research interests surrounding many pharmacotherapy areas in emergency medicine and pharmacy practice. His academic track record includes over 90 peer-reviewed publications and over 100 conference research abstracts. He has been the recipient of many awards for research, teaching, and service.

1030 - 1200

### **Trajectories of Canadian Experiential Education Project**

Session Summary: The CanExEd Project has launched a series of 7 reports addressing priority issues for ExEd on a national scale as curricula transforms into entry-level Doctor of Pharmacy degrees. The comprehensive evidence-based recommendations and prototypes of CanExEd presented in this session are inciting commitment from internal and external ExEd stakeholders. The session panelists are gathering at a seminal time to discuss the future trajectory of ExEd and the resourcing required for realizing CanExEd's full potential. Note: The panel session facilitates audience contribution via smartphone feedback surveys and Q&A session.

1330 - 1500

### **Innovative Curricular Change and Practice Change Advocacy Roundtable Session**

Table #1: Elements for Success in Experiential Education

Facilitators: Dr. Certina Ho, University of Toronto and Waterloo University, Dr. Aileen Mira, University of British Columbia

Table #2: How is IPE Being Addressed in Pharmacy Programs

Facilitators: Ms. Della Croteau, University of Toronto, Mr. Jason Min, University of British Columbia

Table #3: Teaching Improvements Stimulated by Student's Evaluations

Facilitators: Dr. Stephanie Mulhall, University of Saskatchewan, Dr. Simon Albon, University of British Columbia

# Session Information

Table #4: High Stakes Academic Decision Making

*Facilitators: Dr. Marion Pearson, University of British Columbia, Dr. Ken Cor, University of Alberta*

Table #5: Should We Stop Using Clinical Practice Guidelines When it Comes to Teaching Pharmacy Students?

*Facilitator: Dr. James McCormack, University of British Columbia*

Table #6: Clinical and Physical Assessment in Pharmacy Education

*Facilitators: Dr. Fong Chan, University of British Columbia, Dr. Rene Breault, University of Alberta*

Table #7: Engaging in Community-Service Learning: Doing it Right

*Facilitator: Ms. Lynda Eccott, University of British Columbia*

1530 - 1700

## Concurrent Sessions

### **Session A: Building the Future: From Theory to Practice**

1. Novel models of Precepting in the Institutional Setting: The Alberta Experience

*Ann Thompson, University of Alberta*

Three novel models of precepting (peer-assisted learning, near peer teaching and co-precepting) are being used to varying degrees in institutional practice in Alberta. The survey results provide guidance to the faculty and its practice partners for the promotion, adoption, implementation and support of novel models to advance the practice of precepting and increase placement capacity.

2. Integrating Co-Operative Education and Regional Patient Care Rotations: A Novel Approach to Experiential Learning

*Andrew Tolmie, University of Waterloo*

In meeting standards for quality improvement processes for student practice experiences, educators are tasked with developing progressive experiential models in a fiscally challenging and increasingly competitive environment. This presentation explores a novel approach to experiential education, designed to develop strong patient care skills, while meeting and exceeding the expectations of pharmacy partners and external stakeholders.

3. Going Beyond an Advanced Pharmacy Practice Experience Rotation: Focus on Non-Direct Patient Care Contributions by Student

*Doret Cheng, Annie Lee, Cindy Natsheh, Certina Ho, University of Toronto*

The goals of this presentation are to demonstrate students' contribution in non-direct patient care (NDPC) Advanced Pharmacy Practice Experience (APPE) rotations at the Leslie Dan Faculty of Pharmacy, University of Toronto, and highlight the value-added perspectives of their work that can go beyond their rotations. We hope our insights and illustrations of successful NDPC student rotation examples may encourage others to expand their scope of experiential education.

4. Why would you want to open a clinic within your pharmacy school?

*Derek Jorgenson, University of Saskatchewan; Debbie Kelly, Memorial University of Newfoundland; Barbara Gobis, University of British Columbia*

Three faculty affiliated, pharmacist-led, patient care clinics have recently launched within Canadian pharmacy schools. The presenters of this session will describe the purpose of these clinics, the clinical and non-clinical activities that occur within the clinics, and how pharmacy students are involved.



# Session Information

## **Session B: Building the Future: Working with Others**

### 1. Proposed Response of Canadian Faculties of Pharmacy to the Truth and Reconciliation Commission of Canada's Calls to Action

*Jaris Swidrovich, University of Saskatchewan*

This session will propose a set of Aboriginal Learning Outcomes developed at the University of Saskatchewan's College of Pharmacy and Nutrition, using Bloom's Taxonomy, to be delivered in pharmacy degree programs across Canada that address the Truth and Reconciliation Commission (TRC) of Canada's Calls to Action. While faculties of pharmacy across Canada may explore a number of avenues in their responses to the Calls to Action, this session focuses on actions at the curricular level. Each proposed learning outcome will be justified for inclusion into Canadian pharmacy curricula, including their connections to the overall landscape of inequities in the health of Indigenous Canadians.

### 2. Using Reflexive Photography to Assess Cultural Competency Learning in Aboriginal Health

*Jason Min, Larry Leung, University of British Columbia*

A reflexive photography activity can be an effective way of providing reflective learning in cultural awareness specific to Aboriginal Health. The presenters will share the implementation of this activity in an Aboriginal Health elective as a pedagogical approach to better teach and assess cultural awareness. Examples of pre and post-course photos and comments by students will be shared and examined to illustrate how this activity captured student learning.

### 3. Preparing Pharmacy Students for Practice - Interprofessional Reciprocal Peer Teaching

*Cheryl A. Sadowski, University of Alberta*

This session will emphasize the steps to implementing a peer teaching exercise for students from different professions. The importance of including peer teaching as an interprofessional activity will be highlighted.

### 4. Interprofessional Medication Reconciliation: An Innovative Team-Based Process to Engage Learners

*Arun Verma, University of British Columbia*

This innovative interprofessional program has been designed to prepare senior health care students and recently graduated pharmacists to work collaboratively to enhance patient safety through a simulated hospital discharge medication reconciliation process. This presentation will describe the process, approach, and feedback received for this novel event.

# Session Information

## June 2

0830 - 1000

### **From Performance Assessment to Program Evaluation**

Session Summary: Active learning, simulation, experiential and work-based learning approaches have gained significant ground in pharmacy education over the past decade. Such leap forward has lead scholars into challenging common assessment practices and in promoting assessment as an inescapable component for both, guiding student learning and, providing valid and reliable evidence of learning. By a journey into three assessment program, this session will challenge participants in reflecting on, how can innovative assessment practices and sustainable assessment-related research collaboration become a fertile ground for quality pharmacy education in Canada.

1030 - 1200

### **Pharmacy Informatics: Reflecting on the Project and Considering the Next Steps**

Session Summary: The Pharmacy Educator Peer Leader Network (PEPLN) was an initiative between AFPC and Canada Health Infoway. The goal of PEPLN was to integrate pharmacy informatics competencies into curricula using the Informatics for Pharmacy Students e-Resource. During this session peer leaders from across the country will share their experiences and lessons learned from their integration projects. The next steps for the project will be discussed including the introduction of Version 2 of the e-Resource.

1300 - 1400

### **Concurrent Sessions**

#### ***Session A: Building the Future: Innovations to Scholarship of Teaching and Learning – Closing the Loop***

1. Innovations in Pharmacy Education in Undergraduate PharmD Program at Laval University: Focus on Simulation-Based Learning and Portfolio Oral Presentations  
*Julie Méthot, Jean Lefebvre, Laval University*

In 2011, Laval University replaced its Bachelor of Pharmacy program with an undergraduate Doctor of Pharmacy (Pharm.D.) program. The assessment of competencies through oral portfolio presentation for the first graduate cohort will be discussed. Simulation-based learning, an innovation in pharmacy education, will also be presented.

2. Academic Success and Student Well-Being: A Look Through the Motivation Lens  
*Gilles Leclerc, University of Montreal*

Academic program reforms leads most of the time to structural changes and educational innovations. But rarely the impact of such changes and innovations on students' behaviours, motivational beliefs and well being is taken into account. A Student Well Being Framework is proposed as a guide for upcoming program evaluations and curricular reforms in Pharmacy.

3. Completing the Cycle: Dissemination of Educational Research as Threshold Concept in Pharmaceutical Sciences  
*Simon Albon, Andrea Webb, University of British Columbia*

This oral presentation will share the results of a recent UBC study examining faculty experiences of being/becoming pharmacy education scholars and impediments to their growth. Meyer and Land's Threshold Concepts (TC) framework was used to inquire into the ways pharmacy educators think about educational scholarship and the Scholarship of Teaching and Learning (SoTL) where TCs are concepts that both transform understandings of a scholarly field and impede growth of scholars in the area. Using phenomenological inquiry, an interpretive, empirical study was designed yielding

# Session Information

two primary results: 1) existence of “two solitudes” amongst pharmacy educators, and; 2) identification of one critical TC. The knowledge gained from this study as well as its implications for faculty development will be explored.

## **Session B: Building the Future: Teaching the Next Generation**

1. Simulated Electronic Patient Records for Teaching Pharmacotherapy Work-Up: A Skills-Based Laboratory Activity  
*Grace Frankel, University of Manitoba*

This session explores a teaching approach to engage pharmacy students in patient “work-up” skills by using a mock electronic patient record in a pharmacy skills laboratory course. Advantages and disadvantages of this teaching strategy will be highlighted.

2. Antimicrobial Stewardship: Creating the Next Generation of Stewards as Agents of Change  
*Miranda So, University of Toronto*

This session presents the instructional design and innovative methods of assessment of a new ASP course created to prepare the next generation of pharmacists for opportunities in antimicrobial stewardship programs. Skills and knowledge gained from the course are transferable to other aspects of pharmacy practice.

3. Faculty and Student Collaborative Efforts to Enhance the Experience of First Year Entry-to-Practice PharmD Students  
*Patricia Gerber, Stephanie Garland, Brooke Caruth, Renée Dagenais, University of British Columbia*

In this collaborative session co-led by both faculty and students, presenters will describe their experience developing and implementing a Student Mentorship Program comprised of two concurrent initiatives designed to enhance the first year entry-to-practice PharmD student experience: a Faculty-Student Engagement Program and a Peer Mentorship Program. Program details, evaluation, and future plans will be discussed. Suggestions for how other faculties of pharmacy might implement similar programs will be outlined.

1430 - 1600

## **Joint Session**

Speaker: Dr. Scott Singleton/Moderator: Dr. Simon Albon

Biography: Scott Singleton is an associate professor and vice chair of the Division of Chemical Biology and Medicinal Chemistry in the UNC Eshelman School of Pharmacy at the University of North Carolina at Chapel Hill. He fosters a school-wide culture of educational innovation and excellence by leading the Academy for Pharmacy Teaching and Learning Excellence. He also co-leads his school's Curriculum Transformation Steering Committee that is working to transform how professional pharmacists are educated. Scott is an award-winning teacher of organic chemistry, biochemistry, and medicinal chemistry, and co-founded Synereca Pharmaceuticals. He holds a BA in chemistry and biology from Trinity University in San Antonio, Texas, and a PhD in organic chemistry from the California Institute of Technology.



# Session Information

**Abstract:** The UNC Eshelman School of Pharmacy is transforming its doctor of pharmacy program in response to changing societal and workforce needs as well as increasing global demand for non-cognitive, meta-cognitive and learning-related cognitive skills development in pharmacy education. The linear curriculum based on classroom lecture is relatively ineffective and long outdated in a digital world where content is readily accessible. To cultivate the necessary behaviors, skills, attitudes and habits of mind, students must learn by doing through direct patient care and service learning, leadership opportunities, and hypothesis-driven research or quality improvement-driven inquiry. Our school's new curriculum launched in August, 2015. The new 4-year PharmD program emphasizes experiential learning throughout: students spend 6 months in pharmacy practice experiences prior to the 4th year, which is fully experiential. The didactic elements of the curriculum were completely redesigned to emphasize learning outcomes that complement patient care experience through active learning and pedagogies of engagement. A third key element of the new curriculum focuses on advanced inquiry, including innovation, complex problem-solving, and scholarship. We will describe our systems approach to curriculum transformation at the school, highlight the proposed new curriculum and share early examples and lessons learned.

1600 - 1700

## **Closing Session - Curriculum Design and Innovation: Putting it Together**

**Speaker:** Dr. Sandra Jarvis-Selinger, Associate Professor and Associate Dean, Academic, University of British Columbia



**Biography:** Dr. Jarvis-Selinger is the Associate Dean, Academic in the Faculty of Pharmaceutical Sciences. She is a PhD-trained developmental psychologist and researcher in the area of Human Learning, Development and Instruction. As Associate Dean, Academic, Dr. Jarvis-Selinger leads the UBC Faculty of Pharmaceutical Sciences' academic programs including the curriculum renewal project for the Entry-to-Practice Doctor of Pharmacy Program. In addition to her UBC administrative and faculty roles, she is also the educational faculty member for the American Academy of Orthopaedic Surgeons' annual course for Orthopaedic Educators and for the American Orthopaedic Association.

# AFPC Award Winners



## **AFPC New Investigator Research Award**

Dr. Mark Harrison

Dr. Mark Harrison is an Assistant Professor at the Faculty of Pharmaceutical Sciences, University of British Columbia (UBC), where he leads the Initiative for Sustainable Health Care, and Scientist at the Centre for Health Evaluation and Outcomes Sciences (CHEOS) at St. Paul's Hospital, Vancouver. Dr. Harrison is a health economist and epidemiologist who's methodological and research interests lie in policy evaluation, patient and physician decision making and preferences for healthcare interventions, and the measurement and valuation of health. Dr. Harrison is applying advances in research, education, and practice in these areas to the economic principles of health care sustainability.

Dr. Harrison has a long-standing interest in the study of chronic disease. He is currently involved in projects investigating perspectives of health care providers, patients and at-risk people on preventative treatments for rheumatoid arthritis, policy evaluations of pharmacist medication reviews and accelerated integrated primary and community care programs for people with chronic diseases. His policy work uses the rich administrative data sources available in British Columbia and builds on his track record in evaluating policy interventions in the UK. Before moving to UBC, he worked at the University of Manchester (UK) on a range of projects, including evaluating the impact of a national pay for performance schemes to improve the quality of primary care for chronic diseases, the use of patient-reported outcome measures to evaluate surgical outcomes, and strategies to improve the communication of risk and uncertainty in physician-patient interactions.

Dr. Harrison has a first-class Honors degree in Business and Management Sciences (University of Bradford, 2000), an MSc (University of Edinburgh, 2002) and a PhD (University of Manchester, 2008) in Epidemiology. He began his research career with the Arthritis Research UK Epidemiology Unit in 2002, and then following the completion of his PhD, at the Manchester Centre for Health Economics, both at the University of Manchester. He also served as an adviser for the National Institute of Health Research (NIHR) Research Design Service for North West England. Dr. Harrison has a strong publication record with 41 publications, 22 as lead author.



## **AFPC/CFP Graduate Student Award for Pharmacy Practice Research**

Mr. Robert Pammett

Rob Pammett graduated with a Bachelor of Science in Pharmacy from the University of Saskatchewan in 2010, from where he also holds a Bachelor of Science Honours in Biology and Biotechnology. In September of 2012, Rob returned to the University of Saskatchewan to pursue a Master of Science in Pharmacy, graduating in 2015. Rob is currently the Research and Development Pharmacist – Primary Care, a partnership between Northern Health and the Faculty of Pharmaceutical Sciences at the University of British Columbia, where he holds the rank of Assistant Professor (Partner). He was a recipient of the Canadian Foundation for Pharmacy Wellspring Pharmacy Leadership Awards in 2013, and received the Canadian Pharmacists Association New Practitioner Award in 2015. He has an active clinical role in multiple primary care homes in Prince George, British Columbia and works with the city's Interprofessional Teams to provide comprehensive care to patients.

Rob is also engaged in research surrounding the optimal role of pharmacists in primary care, is a member of Northern Health's Research Review Committee and is the Chair of the Canadian Pharmacists Association and Canadian Society of Hospital Pharmacists joint Primary Care Pharmacy Specialty Network.



# AFPC Award Winners



## **AFPC/Pfizer Research Career Award**

Dr. Shirley Wu

Dr. Shirley X.Y. Wu is a full Professor at the Leslie Dan Faculty of Pharmacy, University of Toronto. She was trained in polymer science and engineering and earned her PhD degree in Chemical Engineering at McMaster University. After over 2-years postdoctoral research in pharmaceuticals and drug delivery, she joined the Faculty of Pharmacy at the University of Toronto in 1994 and was promoted to Full Professor in 2006. During her over 21 year academic career, Dr. Wu has established and directed a very active and innovative research program in advanced pharmaceuticals and drug delivery. She has provided excellent multidisciplinary research training to more than 130 graduate and undergraduate research students and postdoctoral researchers in the field of pharmaceuticals, drug delivery, drug development, and pharmaceutical nanotechnology. Dr. Wu is a nationally and internationally recognized expert and distinguished research leader in controlled release dosage forms and innovative drug delivery systems and delivery strategies for enhanced treatment of multidrug resistant and metastatic cancer. In addition, she has made significant contributions to modeling and computer simulation of modified release dosage forms, and nanotechnology-enabled closed-loop insulin delivery. Her lab has developed a novel nanoparticle platform - polymer-lipid hybrid nanoparticles (PLN) for delivering synergistic drug combinations. Her current research remains at the forefront of the field including blood-brain barrier-penetrating nanoparticles for treatment of brain cancer and CNS diseases, synergistic drug combination nanomedicine, tumor microenvironment-modulating bioactive nanoparticles, glucose-responsive delivery of therapeutic hormones, and computer-aided design of controlled release drug delivery systems. Dr. Wu has published >350 journal papers, book chapters, conference proceedings and abstracts. She is a co-inventor of 25 issued and pending worldwide patents. She has delivered over 100 invited presentations and received numerous awards and honors, including induction to a Fellow of American Association of Pharmaceutical Scientists (AAPS) in 2014, in recognition of her sustained level of superior and distinguished professional achievement, contributions, and leadership in the advancement of pharmaceutical sciences.



## **AFPC/Merck Canada Ltd. Postgraduate Pharmacy Fellowship Award**

Dr. Katherine Koroluk

Katherine Koroluk is a native of Caledon Ontario. She completed a Bachelor of Science degree in Biological Chemistry at the University of Toronto before graduating with Honours from the PharmD program at the University of Toronto in 2015. Katherine is currently completing a pharmacy residency in primary care at the University Health Network in Toronto. She is concurrently completing her master's degree in Pharmaceutical Sciences at the University of Toronto, focusing her research on antimicrobial stewardship in the primary care setting.

Katherine feels lucky to have been involved in several different areas of the multifaceted profession of pharmacy. She has had the opportunity to work in ambulatory, hospital and community practice, and has been involved in teaching, research, knowledge translation and professional associations. Besides pharmacy, Katherine's interests include music, baking, cooking, and enjoying the great outdoors through running, hiking and gardening. She is grateful to AFPC and Merck Canada for their sponsorship of the award, which will allow her to focus on her studies and research.



# AFPC Award Winners



## **AFPC Graduate Student Research Award**

Dr. Warren Viricel

Warren Viricel is currently a PhD Candidate at the Faculty of Pharmacy of Montreal (University of Montreal) since 2012, in the Pr. Jeanne Leblond-Chain's lab. He earned his Pharm.D and his Master's degree in "Science of Medicines" at University Claude Bernard Lyon 1 (France) respectively in 2014 and 2012. He is currently developing new pH-sensitive nanoparticles for hydrophilic drug and gene delivery (siRNA). These nanovectors are based on switchable lipids, able to change their conformation in acidic environments (such as tumors or inside the cells in endosomes). These lipidic nanovectors could be used for efficient delivery of drugs for cancer treatments or hereditary disorders.



## **AFPC National Award for Excellence in Education**

Mr. Jean-Fran ois Bussi res

Jean-Fran ois Bussi res is a pharmacist since 1988. He completed a Bachelor in Pharmacy at Universit  Laval, a master in hospital Pharmacy at Universit  Laval and an M.B.A. at Universit  McGill. Since 1996, he is the Director of the Pharmacy Department and the Pharmacy Practice Research Unit at CHU Sainte-Justine and full clinical professor at the Facult  de pharmacie at Universit  de Montr al. He chairs the Executive Committee at the Group Purchasing Organisation SigmaSant  for drugs and related disposals. He has been involved in numerous committees and organizations in Quebec and Canada. He has received many awards including the Pharmacist of the Year from the Canadian Pharmacists Association in 2007 and the personality of the week from the daily newspaper La Presse in 2004. He has published a few books, more than 1100 abstracts and papers and has given more than 250 oral communications. He is dedicated to patient care in a mother-child hospital, teaching, research and management.



## **AFPC/Janssen Award for Innovation in Education**

Dr. Derek Jorgenson

Derek Jorgenson is an Associate Professor of Pharmacy in the College of Pharmacy and Nutrition and the College of Medicine at the University of Saskatchewan. He is also an adjunct professor at the University of Ottawa School of Nursing. Dr. Jorgenson teaches both undergraduate and graduate students in pharmacy, medicine, physiotherapy and nursing. He also maintains a health service utilization research program that focuses on the role of pharmacists in the primary health care system. Dr. Jorgenson has a background as a community pharmacist but now maintains a clinical practice as a pharmacist within an interprofessional primary health care team.

# AFPC Award Winners



## **AFPC/PEBC Award for Excellence in Research or Innovation in Assessment of Competence**

Dr. Anne Marie Whelan

Anne Marie Whelan is a Professor at the College of Pharmacy at Dalhousie University in Halifax, Nova Scotia. After receiving her B.Sc. in Pharmacy she started her career working in community pharmacy practice. Building on this experience, she obtained her Doctor of Pharmacy degree from the Medical University of South Carolina in 1989 and completed a one year post Pharm.D. Residency in Family Medicine. Dr. Whelan has been a faculty member at the College of Pharmacy since 1990. She teaches in the area of pharmacotherapeutics, primarily topics related to women's health. Students selected her as the recipient of the Dr. Jessie I. MacKnight Award for Teaching Excellence in Pharmacy in 1992, 1993 and 1994. In recognition of her work with implementing and evaluating the only undergraduate problem-based learning pharmacy curriculum in Canada she was a co-recipient of the Bristol-Myers Squibb National Award for Excellence in Education in 2000 from the Association of Faculties of Pharmacy of Canada and, received Honorable Mention in the 2002 Innovations in Teaching Competition sponsored by the American Association of Colleges of Pharmacy. In 2011 she was awarded the Faculty of Health Professions (Dalhousie University) Teaching Excellence Award. To facilitate her leadership role in the area of curriculum evaluation she was appointed Associate Director, Program Evaluation at the College of Pharmacy in 2010. Her research interests span from her work in curriculum evaluation to clinical practice (where she is currently conducting research in the areas of emergency contraception and use of natural health products in women). Dr. Whelan was honoured to serve as President of both the Association of Faculties of Pharmacy of Canada (2006-2007) and the Board of The Pharmacy Examining Board of Canada (2013-2014). Currently, Dr. Whelan is completing a sabbatical where she has been enhancing her knowledge and skills in the area of program evaluation. She is looking forward to designing and implementing a comprehensive evaluation plan for the new Doctor of Pharmacy program.

## **AFPC Student Research Poster Award Winners**

Chesarahmia Dojo Soeandy (*University of Toronto*), Waseem Abu-Ashour (*Memorial University of Newfoundland*), Naif Alujhani (*University of Alberta*), Nyasha Gondora (*University of Waterloo*), Divna Calic (*University of Manitoba*), Mia Losier (*Dalhousie University*), Marilyn Sun (*University of British Columbia*), Pedram Rafiei (*University of Saskatchewan*), Marc-André Renaud (*University of Montreal*), Anna Cieślak (*Laval University*)

# AFPC Award Sponsors

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# Poster Listings

## June 1

- AFPC - 1 **Waseem M. Abu-Ashour**, Laurie K. Twells, James E. Valcour, John-Michael Gamble. **"Diabetes and the occurrence of infection in primary care: A matched cohort study."**
- AFPC - 2 **Naif Aljuhani**, Lindsey Spryut, Randy Whittal, Arno Siraki. **"The oxidation of the anticancer drug metabolite, 6-mercaptopurine ameliorates Cu-Zn superoxide dismutase activity: Potential involvement of peroxymonocarbonate."**
- AFPC - 3 Renée Dagenais, **Arden R. Barry**, Mary H. H. Ensom. **"The bus analogy': A new analogy to help pharmacy students conceptualize the well-stirred model."**
- AFPC - 4 **Jam Bravo**, Mirando So, Karen J. Cameron, Cindy Natsheh, Gordon A. Tait. **"Descriptive Analysis of Fourth Year Pharmacy Students' Perspective on Virtual Interactive Case (VIC) Software."**
- AFPC - 5 **Rene R. Breault**, Jill Hall, Sheila Walter, Ken Cor. **"Experiential Education in the PharmD for Practicing Pharmacists Program: Preceptor Experiences and Expectations."**
- AFPC - 6 **Rene R. Breault**, Christine A. Hughes, Deborah Hicks, Theresa J. Schindel. **"Compensation plan for pharmacy services: Communicating change in Alberta."**
- AFPC - 7 **Dion R. Brocks**, Ken Cor. **"The relationship between grades in prerequisite pharmacy courses and pharmacy grades at the University of Alberta."**
- AFPC - 8 **Divna Calic**, Ryan G. Lillico, Ted M. Lakowski, Casey Sayre, Sheryl A. Zelenitsky. **"Significant changes in cefazolin protein binding during cardiac surgery with cardiopulmonary bypass."**
- AFPC - 9 **Karen J. Cameron**, Salma Satchu, Jenny Chiu, Anna Chiu, Dhvani Raiyani, Eric Luloff, Andrea J. Cameron, Olavo Fernandes. **"Assessment of PharmD Student Performance on Standardized Medication Reconciliation Validation at Academic Hospitals."**
- AFPC - 10 **Fong Chan**, Katherine Seto. **"Implementation of an Assessment Strategy Using Human Patient Simulation Technology to Evaluate Pharmacy Students."**
- AFPC - 11 **Theresa L. Charrois**, Jay Mutch, Lydia Cheung, Jill J. Hall, Meagen M. Rosenthal, M. Ken Cor. **"Defining Characteristics of Successful Pharmacists: A Qualitative Study."**
- AFPC - 12 **Gilles Leclerc**, Marie-Lou Deschamps, Antoine Lebrun, Michael Cardinal, Mathieu Nobert, Charles-Edouard Morel, Christiane Nathalie Geillon. **"eHealth Education: Anatomy of an Interprofessional Initiative."**
- AFPC - 13 Justin Mak, **Doret Cheng**, Cindy Natsheh. **"Entrustable Professional Activities (EPAs) for Pharmacy? A Literature Review."**
- AFPC - 14 **Jenny Chiu**, Monica Lee. **"Comparison of pharmacy students' and pharmacists' activities using a clinical pharmacist workload measurement tool."**
- AFPC - 15 **Anna Cieślak**, Jocelyn Trottier, Melanie Verreault, Frederic Calon, Marie-Claude Vohl, Piotr Milkiewicz, Olivier Barbier. **"Docosahexaenoic acid activates bile acid detoxification in mice."**
- AFPC - 16 **Chesarahmia Dojo Soeandy**, Faraz Salmasi, Jeffrey Henderson. **"Defining an alternative murine model of cerebral ischemia: focal vasoconstriction via endothelin-1."**
- AFPC - 17 **Nyasha Gondora**, Michael A. Beazely, John G. Mielke. **"Chronic Early Life Social Isolation Affects Expression of TrkB and NMDA Receptor Proteins in a Sex-Specific Manner."**
- AFPC - 18 **Kerry B. Goralski**, Steven R. Hall, Jay Toulany, David L. Jakeman. **"Jadomycins induce DNA damage and caspase-dependent apoptosis in human MDA-MB-231 breast cancer cells."**
- AFPC - 19 Arun K. Verma, Judith A. Soon, **John Y. Groumoutis**. **"The interprofessional medication reconciliation program: a quantitative evaluation."**

# Poster Listings

- AFPC - 20 **Arun K. Verma**, Judith A. Soon, Jackson Stewart. **"The interprofessional medication reconciliation program: a qualitative analysis."**
- AFPC - 21 **Jill J. Hall**, Rene R. Breault, Sharon Marsh, Candace M. Neczyk, Theresa J. Schindel. **"A model of innovative integration in the Doctor of Pharmacy for Practicing Pharmacists Program."**
- AFPC - 22 Michael B. Weale, **Jennifer E. Isenor**, Melissa Helwig, Susan K. Bowles. **"Advancing and evaluating the Drug Information Resources (DIR) website."**
- AFPC - 23 **Derek J. Jorgenson**, Eric J.L. Landry, Katherine J. Lysak. **"A mixed methods evaluation of a medication assessment clinic located within a pharmacy school."**
- AFPC - 24 **Deborah V. Kelly**, A. Nicole Pittman. **"Development of a pharmacist-run Medication Therapy Services Clinic."**
- AFPC - 25 Alexander D. Smith, Arnab Ray, **Tara L. Klassen**. **"Classic labs for a new program: development of integrated pathophysiology activities for the Entry-to-Practice PharmD curriculum."**
- AFPC - 26 Alexander D. Smith, Arnab Ray, **Tara L. Klassen**. **"Bandana Science: Peers in the preparation for and teaching of pathophysiology in PharmD entry to practice integrated activities."**
- AFPC - 27 **Mia G. Losier**, Megan E. Harrison, Emily K. Black, Heather L. Neville, B. Lynn Johnston, Kim A. Abbass, Kathryn L. Slayter, Ingrid S. Sketris. **"Point prevalence survey of antimicrobial use at the Queen Elizabeth II Health Sciences Centre in Halifax, Nova Scotia."**
- AFPC - 28 **Melissa Lu**, Brenna Shearer, Alberto Severini, Silvia Alessi-Severini. **"Survey of knowledge and attitude regarding HPV infection, vaccine and testing."**
- AFPC - 29 **Katherine J. Lysak**, Shawna L. Berenbaum, Stephanie M. Mulhall, Jason P. Perepelkin, Yvonne M. Shevchuk, Jeff G. Taylor, Derek J. Jorgenson. **"Pharmacy student perceptions of a medication assessment clinic located within a pharmacy school."**
- AFPC - 30 **Pedram Rafiei**, Azita Haddadi. **"Docetaxel Loaded PLGA Nanoparticles for Intravenous Application: Pharmacokinetics and Bio-distribution profile."**
- AFPC - 31 Annie-Claude Couture, Sarah Girard, **Marc-André Renaud**, Marie Vincent-Tremblay, Jean-Luc Dionne, Robert Bell, Michel Vallée, Robert Robitaille, France Varin, Philippe Bouchard. **"An observational study to assess the accuracy of carboplatin area under the concentration-time curve in oncology patients with standardized creatinine measurement and modern formulas for renal function estimation."**
- AFPC - 32 **Miao Yan (Marilyn) Sun**, Tara L. Klassen. **"Novel missense mutations in SCN1B as a cause of pediatric epilepsy."**

## June 2

- AFPC - 33 **Tamiz J. Kanji**, Tony T. Seet. **"The impact of standardized patients on first year students in an entry-to-practice PharmD program at the University of British Columbia."**
- AFPC - 34 **I fan Kuo**, Inderpaul Ruprai, Shawn Bugden. **"Parliamentarians in the classroom: learning ethics and pharmacy practice issues through debates."**
- AFPC - 35 Shawn Bugden, **I fan Kuo**. **"Enhancing quality by using instruction on qualitative methods as a course evaluation tool."**
- AFPC - 36 Grace Frankel, Christopher Louizos, **I fan Kuo**. **"New skills lab component for pharmacy student: ordering and interpreting laboratory tests."**
- AFPC - 37 **Vaughn T. Chauvin**, Tamiz Kanji. **"The impact of practical skills instruction and application in improving student confidence to engage in point of care INR monitoring and management."**



# Poster Listings

- AFPC - 38 **Annie Lee**, Andrew Tolmie, Mahmoud Suleiman, Diana Spizzirri, Stephanie Chiu, Henry Halapy. **"Designing, Testing and Implementing a Standard Assessment Tool for Field-Based Pharmacy Training."**
- AFPC - 39 **Annie Lee**, Thomas Huang, Danish Tanwar, Certina Ho. **"Effectiveness of the Peer-to-Peer Mentoring Model for Transitioning from Classroom to Professional Practice."**
- AFPC - 40 **Christopher Louizos**, Casey L. Sayre, Bruce D. Audit, Grace E. Frankel, Robert D. Renaud. **"Implementing the Informatics for Pharmacy Students E-resource into the University of Manitoba, College of Pharmacy."**
- AFPC - 41 **Glenda P. MacDonald**, Peter S. Loewen, Patricia Gerber, Madeleine H.P. Lee, James P. McCormack. **"Brain Gain: Evaluation of Prior Learning Assessment and Recognition (PLAR) in a Canadian Doctor of Pharmacy Program."**
- AFPC - 42 **Rachel Magarinos-Torres**, Milton D. Lucas-Filho, Monique A. Brito. **"Profile of the hospital pharmacists workers in Rio de Janeiro, Brazil."**
- AFPC - 43 Shannon Del Bigio, Stephanie Mulhall, Yvonne Shevchuk, **Holly Mansell**. **"Perceptions of teamwork and interprofessional education in undergraduate pharmacy students."**
- AFPC - 44 **Janice L. Moshenko**, Jimi Galvao, Angela Pau. **"Career communications workshops for pharmacy students: Development, implementation and evaluation."**
- AFPC - 45 **Janice L. Moshenko**, Larry Leung, Jason Min, Fong Chan, David Massaro, Parkash Ragsdale. **"Impact of a communication session for pharmacy students: Preparation for IPE collaboration."**
- AFPC - 46 Lauren F. Ferruccio, Doret Cheng, **Cindy Natsheh**. **"Providing academic support to students in experiential education (PASS-EE): A survey of Canadian and American Faculties of Pharmacy."**
- AFPC - 48 **George Pachev**, Marion Pearson, Simon Albon, Andrea Busse. **"Evaluating the function and impact of a formative assessment program in the UBC E2P PharmD program: First term insights."**
- AFPC - 49 Lisa McCarthy, Natalie Crown, Beth A. Sproule, **Micheline Piquette-Miller**, Daniel Mueller, Thomas Boyang Huang. **"Training Pharmacists to Become Personalized Medicine Experts."**
- AFPC - 50 **Robert D. Renaud**, Sheryl A. Zelenitsky, John A. Pugsley, Shawn C. Bugden. **"Predictive validity of admission tools on student performance in the pharmacy program and on the national licensing examination."**
- AFPC - 51 **Cynthia L. Richard**, Alana H. Rigby, Andrea N. Edginton. **"Establishment of a 2nd Year Midpoint Assessment to identify students for remediation."**
- AFPC - 52 **Tony Seet**, Katherine Seto, Andrea Busse, George Pachev. **"The Implementation of New Assessment Strategies in a Medication Management Module within an Introductory Course in an Entry-to-Practice PharmD Program."**
- AFPC - 53 **Katherine Seto**, Brian B. Rodrigues. **"Development and Implementation of a Foundations of Pharmacy Course in an Entry-to-Practice PharmD Program."**
- AFPC - 54 Paulo Tchen, Leo Leung, **Frances Simpson**, Angela Kim-Sing, Marion Pearson. **"Bridging the gap from the classroom to the institutional practice site: Evaluation of an online transition module for student pharmacists."**
- AFPC - 55 Neelam Dhaliwal, **Frances Simpson**, Ashley Shaw, Angela Kim-Sing. **"Developing online learning modules for pharmacy practice educators."**
- AFPC - 56 Neelam Dhaliwal, **Frances Simpson**, Iona Berger, Angela Kim-Sing. **"Preliminary evaluation of online practice educator development modules."**
- AFPC - 57 **Harvinder Singh**, Hélène Jolin, Tracy Zhang, Tim Veregin. **"Development and evaluation of a hierarchical model of teaching for a hospital pharmacy direct patient care rotation."**
- AFPC - 58 Andrew Tolmie, Nancy M. Waite, Emily P. Milne. **"Communities of practice: An innovation in experiential education."**





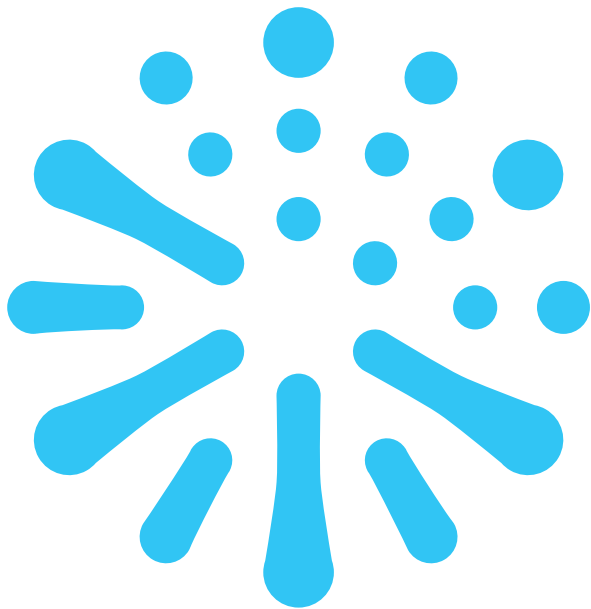
# Poster Listings

- AFPC - 59 Amanda J.S. Condon, Fiona M. Jensen, Laura L. MacDonald, **Dana A. Turcotte**, Pam F. Wener. **"The Process of Developing an Entry to Practice Faculty of Health Sciences Interprofessional Collaborative Care Longitudinal Curriculum."**
- AFPC - 60 **Anne Marie Whelan**, Dianne Cox. **"Doctor of Pharmacy program development: Stakeholder survey, College of Pharmacy, Dalhousie University."**
- AFPC - 61 **Anne Marie Whelan**, Dianne Cox. **"Former/current student feedback regarding the progress exam at the College of Pharmacy, Dalhousie University."**
- AFPC - 62 **Kerry Wilbur**, Emily Black. **"Describing student performance; a comparison between clinical preceptors across cultural contexts."**
- AFPC - 63 **Kerry Wilbur**, Kyle Wilby. **"Pharmacy student evaluations in landscapes of changing educational outcomes and expectations."**

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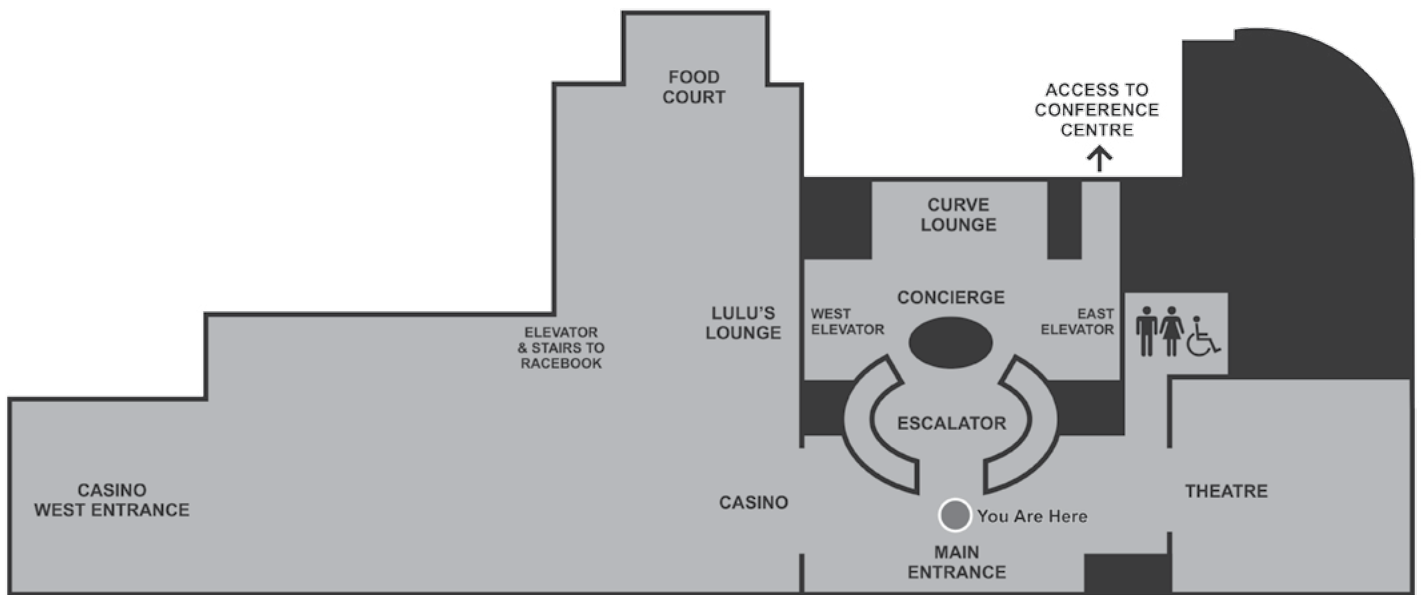
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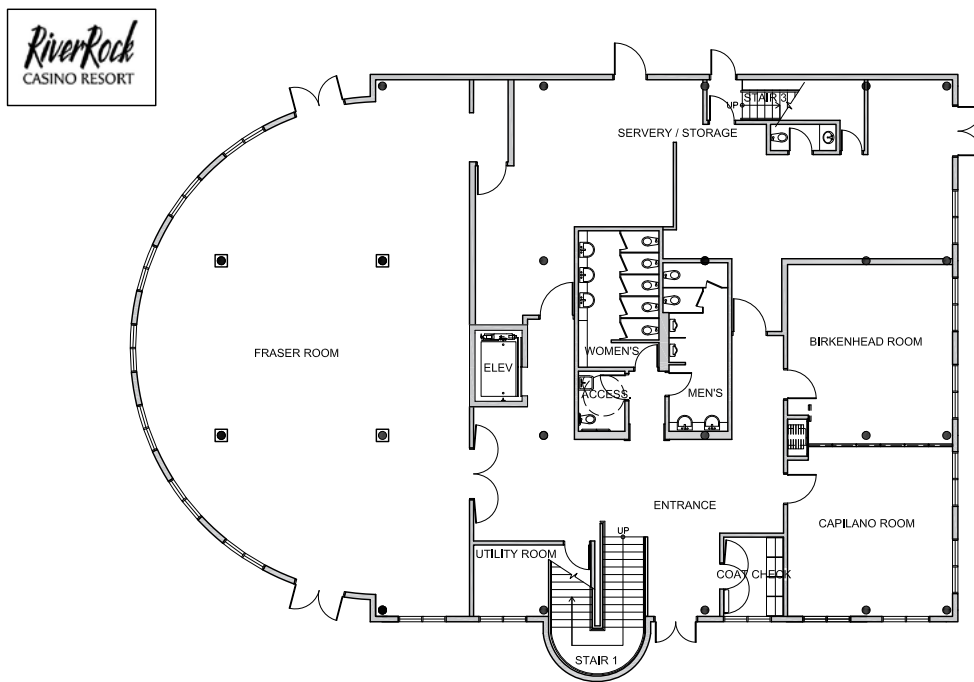
# River Rock Hotel and Casino Map

## Casino & Lobby



# River Rock Hotel and Casino Map

## First Floor



## Second Floor

