



OEMAC

32ND ANNUAL SCIENTIFIC CONFERENCE

PRE-CONFERENCE

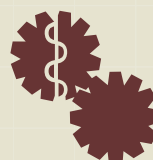
Sunday, September 28, 2014

CONFERENCE

Monday, September 29
& Tuesday, September 30, 2014

**THE WESTIN EDMONTON
EDMONTON, ALBERTA**

2014 PROGRAM



OEMAC.ORG

OCCUPATIONAL AND ENVIRONMENTAL
MEDICAL ASSOCIATION OF CANADA

General Event Information

CME Accreditation

The OEMAC Annual Scientific Conference is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification program of the Royal College of Physicians and Surgeons of Canada, and approved by the University of Calgary Office of Continuing Medical Education and Professional Development. Participants can claim up to a maximum of 20.5 study credits.

OEMAC has applied to the College of Family Practitioners of Canada (Mainpro-M1) for continuing medical education credits for this conference. Further details will be provided upon program approval.

Speaker Presentations

OEMAC will not provide handouts at the conference. Delegates are welcome to access presentations from speakers who granted permission for online distribution. Presentations are available at: http://oemac.org/?page_id=354.

Wifi

Wireless internet is available at no cost to our delegates in the meeting space as well as in the guest rooms. Connect to: OEMAC.

Evaluation

To assist in the planning of future conferences please take the time to complete the evaluation form. The online evaluation form will be sent to you by email. Completed paper forms should be returned to the registration desk by Tuesday at 5:00 pm.

Faculty Disclosure Statements

In accordance with the Accreditation Council of Continuing Medical Education (ACCME) Standards for Commercial Support, all planning committee members, and invited speakers in this program are expected to disclose to the program audience any real or apparent conflict of interest related to the content of their preparation.

Dr. Ayo Adebayo	<i>nothing to disclose</i>	Dr. John Hickie	<i>nothing to disclose</i>	Dr. Sol Sax	<i>Medical director at WellPoint Health Services</i>
Dr. Anil Adisesh	<i>nothing to disclose</i>	Dr. Harold Hoffman	<i>nothing to disclose</i>	Dr. Robert Schnatter	<i>nothing to disclose</i>
John Badowski	<i>nothing to disclose</i>	Dr. David Jarman	<i>nothing to disclose</i>	Dr. Myron Stelmaschuk	<i>nothing to disclose</i>
Dr. Jeremy Beach	<i>nothing to disclose</i>	Dr. Christine Kennedy	<i>nothing to disclose</i>	Dr. Steve Tsekrekos	<i>nothing to disclose</i>
Dr. John Brennan	<i>nothing to disclose</i>	Dr. Matt Lauzon	<i>nothing to disclose</i>	Dr. Hakique Virani	<i>Employee of Health Canada / Member of advisory committee to Environics Communications on the development of opioidrecovery.ca</i>
Dr. Ken Corbet	<i>nothing to disclose</i>	Dr. William Livingstone	<i>nothing to disclose</i>	Dr. JianLi Wang	<i>nothing to disclose</i>
Michele Crites-Battie	<i>nothing to disclose</i>	Dr. Kunle Oyekanmi	<i>nothing to disclose</i>		
Dr. Charl Els	<i>nothing to disclose</i>	Dr. Arlin Pachet	<i>nothing to disclose</i>		
Dr. Paul Farnan	<i>nothing to disclose</i>	Dr. Kevin Percy	<i>nothing to disclose</i>		
Dr. Kenneth Fryatt	<i>nothing to disclose</i>	Dr. David Pettit	<i>nothing to disclose</i>		
Dr. Francis Green	<i>Consultant to Encana on Silica Toxicity</i>	Diane Radnoff	<i>nothing to disclose</i>		
Dr. Douglas Hamm	<i>nothing to disclose</i>	Dr. Chuck Samuels	<i>Consultant advisor for Valeant & Paladin / Received a speaker honorarium from Valeant & Paladin</i>		
Dr. Ken Harrison	<i>nothing to disclose</i>				
Dr. Richard Heron	<i>Employee of BP international Ltd. Holds shares in BP.</i>				

Special Events

Welcome Reception – Sponsored by: Oncidium (Workplace Health & Cost Solutions)

Sunday, September 28, 7:00 – 9:00 pm – British Columbia/Alberta/Yukon Room

Take this opportunity to engage new contacts, refresh old ones, and listen to the sounds of the Ray Baril Trio featuring Robert Walsh on guitar, Josh McHan on bass and Ray on saxophones. As a trio they have been featured at the Edmonton International Jazz Festival, Celebration of the Arts at the University of Alberta and for various corporate functions throughout the city. Poster presentations will be on display during the Welcome Reception and this will be your only opportunity to discuss the posters with the authors. Cocktails (cash bar) and appetizers will be served. The Welcome Reception is included in full main conference registration. Additional tickets may be purchased at registration for \$55.

OEMAC Annual Dinner and Awards Banquet

Monday, September 29, 6:30 pm – Devonian

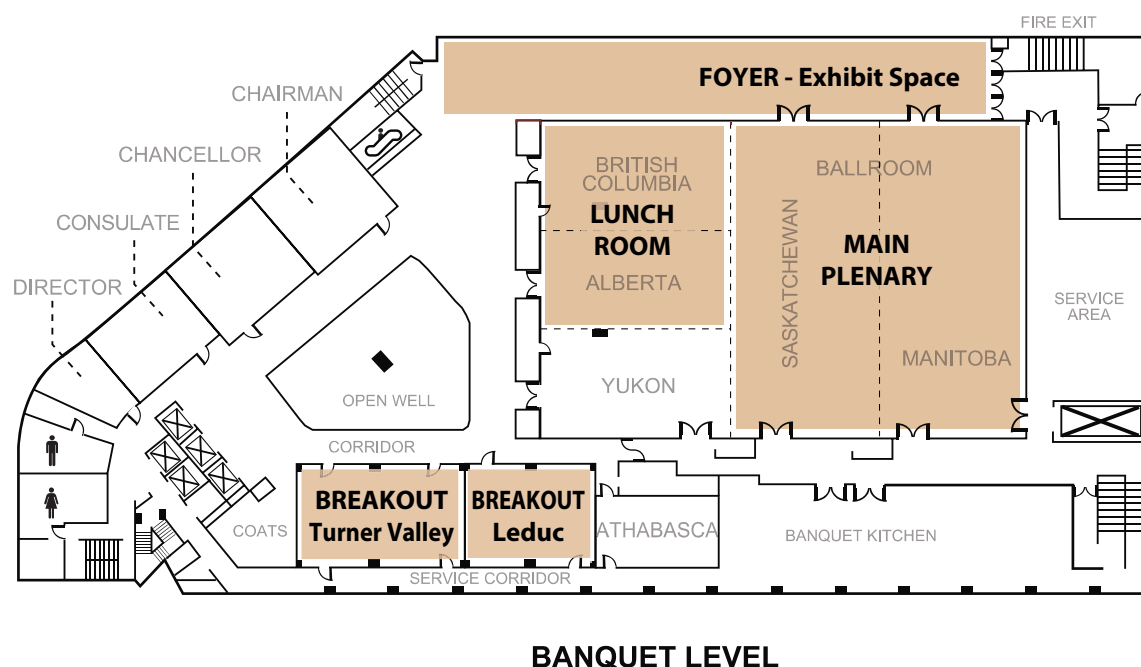
Join us for cocktails from 6:30 – 7:00 pm. Dinner will begin at 7:00 pm, followed by presentations and awards. The evening will conclude with a stand-up comedy show. Lars Callieou has done almost all there is to do in Canada. He has a comedy special currently airing on the Comedy Network, appearances at the Just for Laughs and Halifax Comedy Festivals and his comedy radio show was nominated for a 2011 Canadian Comedy Award. He's been on CBC's The Debaters, XM Radio and Shaw Cable. The OEMAC Annual Dinner and Awards Banquet is included in full main conference registration. Additional tickets may be purchased at registration for \$75.

Tuesday Morning Walk

Tuesday, September 30, Meet in the lobby at 6:30 am - 5 km walk

Join one of the Westin staff for a refreshing morning walk. This is a great way to start your day! This is open to all delegates and spouses at no cost. Don't worry if you haven't packed runners or sports apparel as the Westin has recently partnered with New Balance to provide athletic shoes and apparel during your stay, for a fee of \$5.25. Simply dial Service Express® and request your shoe and clothing size and they will be conveniently delivered to your guest room. Shoes come with socks that are brand new and apparel is provided fresh and clean along with new inserts in every running sneaker.

Floor Plan



Welcome to the 2014 OEMAC Conference

Dear Colleagues,

On behalf of the Planning Committee for the 32nd Annual Scientific Conference of OEMAC I would like to welcome you to Edmonton.

This conference brings together occupational health professionals from a variety of backgrounds to present current scientific information on occupational and environmental health issues. We believe we have assembled a fascinating slate of expert speakers who will cover a wide range of topics chosen for their relevance to the practice of Occupational and Environmental Medicine in 2014. We hope that you will find the presentations and the discussion arising from them stimulating and informative.

As Committee Chair, I want to thank the conference planning committee for their enthusiastic and untiring support. Planning a conference is truly a 'team event' and I am grateful for their suggestions and network of contacts which we were able to utilize in putting together the program. I wish also to thank OEMAC staff (Jonathan Strauss, Chantal Champagne, and Nikki Laurin), without whom much of the work needed to create the conference would not have been possible. Finally, I should also thank all our sponsors whose financial support allowed the planning committee to focus on the quality of the program rather than worrying unduly about budgets.

I hope you will enjoy your stay in Edmonton, and that you will take some time to visit some of the attractions of the city. I hope that you will leave here having been enthused by the opportunity to learn new things and interact with your peers in occupational health.

Sincerely,

Dr. Ken Corbet

CHAIR, 2014 OEMAC SCIENTIFIC CONFERENCE PLANNING COMMITTEE

CONFERENCE PLANNING COMMITTEE

DR. AYO ADEBAYO
MD, MPH, DABPM(OM),
DABIM, CIME

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MBCHB, FCPSYCH,
MMEDPSYCH, ABAM,
MROCC

DR. DOUGLAS HAMM
MD, CCFP, FRCPC, FCBOM

DR. HAROLD HOFFMAN
MD, CCFP, FRCPC

DR. JEREMY BEACH
MBBS, MD, FRCPC

DR. JOHN HICKIE
MSC, MD, CCFP, ACBOM

DR. KEN HARRISON
MD

DR. KENNETH CORBET
MD, FRCPC

DR. KENNETH FRYATT
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MSC, MD, FRCPC

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and Services

Pre-Conference

Pre-conference sessions organized by CBOM

Separate registration is required to attend pre-conference



Theme: Fitness to Work

Manitoba/Saskatchewan Ballroom

SUNDAY, SEPTEMBER 28, 2014

7:45 am – 8:10 am BREAKFAST & PRE-CONFERENCE REGISTRATION	
8:10 am – 8:15 am Pre-conference Opening Remarks	
8:15 am – 9:00 am What Does Your Patient do for a Living? <i>Dr. David Jarman</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none">1. Better understand the complex interplay between health and occupation2. Be comfortable in taking an occupational history3. Improved facility in encouraging and supporting the occupational activities of patients with temporary or chronic illnesses or injuries
9:00 am – 9:45 am Tactical to Practical-Concepts and Examples of Navigating the Return to Work Interface <i>Dr. John Brennan</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none">1. Understand the basic definitions of impairment and disability and understand the difference2. Understand the role of physicians in the return to work process3. Understand the role of employers in the return to work process4. Understand six key concepts of interfacing with workers and workplaces5. Understand some basic do's and do not's of note writing in the return to work process
9:45 am – 10:00 am REFRESHMENT BREAK	
10:00 am – 10:45 am Best Practices in Fitness to Work Evaluation <i>Dr. Sol Sax</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none">1. Understand the business reasons for doing disability management/fitness to work evaluation so that they can justify their services to current or potential clients2. Understand the process of disability management/fitness to work evaluation so that he can provide information to the client in a way that is meaningful3. Appreciate the various tools available to help them do a proper disability/fitness to work evaluation so that their reports will stand up to scrutiny by their peers, courts or arbitrators
10:45 am – 11:00 am QUESTIONS & DISCUSSION	
11:00 am – 11:45 am New Directions in Fitness to Work Evaluation <i>Dr. Ken Corbet</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none">1. Describe a job in terms of key job elements, and identify relevant external medical standards2. Outline the development of a screening fitness to work protocol (history, examination, testing)3. Decide what additional medical information is needed to make a fitness decision4. Determine whether a person's medical condition warrants work limitations and restrictions vs. an employee advisory5. Evaluate fitness to work assessments
12:00 pm – 1:00 pm LUNCH	

1:00 pm – 1:45 pm Occupational Asthma <i>Dr. Jeremy Beach</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Be aware of the different categories of work-related asthma and their salient features 2. Be able to identify 10 causes of occupational asthma 3. Appreciate some of the diagnostic tests that can be used in the diagnosis of occupational asthma, and some of their limitations 4. Understand the additional management necessary for occupational asthma
1:45 pm – 2:30 pm Occupational Medicine in the Aerospace Environment <i>Dr. David D. Pettit</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Have a better understanding of Aerospace or Aviation Medicine as a clinical-preventive medical specialty specific to the aviation industry that includes a large occupational health component to support non-flying workers 2. Be more aware that the spectrum of occupational hazards to which aviation ground personnel may be exposed is broad and more aware of the importance of recognizing that exposure to many of these hazards may result in physical and/or cognitive impairment with performance degradation which, in turn, may detract from flight safety with potentially disastrous consequences 3. Appreciate that quality occupational health support for manufacturing, maintenance and other ground personnel in the aviation industry is important not only for the workers' health and safety but also for aviation safety therefore, by extension, physicians who see these workers in their practice are well positioned to contribute to aviation safety
2:30 pm – 2:45 pm QUESTIONS & DISCUSSION	
2:45 pm – 3:00 pm REFRESHMENT BREAK	
3:00 pm – 3:45 pm Pain and Fitness to Work Evaluation <i>Dr. Douglas R. Hamm</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Identify key issues in pain-limited function 2. Use validated tools in the assessment of pain 3. Evaluate fitness to work in those with chronic pain
3:45 pm – 4:30 pm Harness Suspension and Fitness for Work at Heights <i>Dr. Anil Adisesh</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Be able to identify the circumstances of and hazards associated with work at height 2. Identify the medical conditions that need consideration for work at height 3. Recommend appropriate occupational health management for work at height
4:30 pm – 4:45 pm QUESTIONS & DISCUSSION	
7:00 pm – 9:00 pm WELCOME RECEPTION & POSTER PRESENTATIONS - BC / AB / Yukon Room	

MONDAY, SEPTEMBER 29, 2014

OEMAC Conference Sessions

Manitoba/Saskatchewan Ballroom



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MEDICAL ASSOCIATION OF CANADA

7:30 am – 8:15 am REGISTRATION & BREAKFAST - <i>Foyer</i>	
8:15 am – 8:30 am WELCOME & INTRODUCTION	
8:30 am – 9:15 am Exposure to Crystalline Silica in Alberta Workplaces <i>Diane Radnoff</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Understand challenges in determining levels of occupational disease from silica exposure 2. Understand the levels of exposure to crystalline silica in a variety of Alberta industries and occupations 3. Learn about work practices and controls (or lack thereof) which may contribute to workplace exposures
9:15 am – 10:00 am The Natural History and Pathogenesis of Silica Associated Disease <i>Dr. Francis H. Y. Green</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Describe the pathophysiology of silica exposure on the lung (silicosis; COPD, lung cancer) and the systemic effects of silica exposure 2. Correlate silica dose and dose rate with lung pathology in exposed populations 3. Describe the physical, chemical, and biological factors that account for the variability of silica toxicity
10:00 am – 10:30 am BREAK & VISIT WITH EXHIBITORS - <i>Foyer</i>	
10:30 am – 11:15 am Medical Surveillance for Silica-related Disease <i>Dr. Ken Corbet</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Describe the objectives of a medical surveillance program for silica-related disease 2. Compare regulatory vs. risk-based eligibility criteria 3. Estimate silica-related morbidity in silica-exposed workers 4. Describe the essential elements of the exposure history, medical history, and testing 5. Determine when medical referral is indicated
11:15 am – 11:45 am PANEL DISCUSSION	
11:45 am – 1:00 pm CONFERENCE LUNCH - <i>Foyer, BC/AB & CBOM AGM (CBOM members only) - MB/Sask</i>	
1:00 pm – 1:45 pm Mastromatteo Oration – Health Effects of Benzene Exposure: What's New? <i>Dr. A. Robert Schnatter</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Understand historical aspects of benzene's cancer causing potential 2. Understand more recent findings regarding benzene exposure, including occurrence of myelodysplastic syndrome (MDS) 3. Understand exposure levels which have been documented to cause various effects, and potential groups at higher risk
1:45 pm – 2:30 pm Ambient Air Quality in the Athabasca Oil Sands, Alberta <i>Dr. Kevin E. Percy</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Have enhanced knowledge on air quality in the Athabasca Oil Sands, including linkage to air quality standards/objectives set to protect human health 2. Have new knowledge on multiple pollutant exposure that can be utilized in direct patient care, or in risk analysis 3. Apply new knowledge to the practice of treating patients in multiple pollutant exposure situations

2:30 pm – 3:00 pm **BREAK & VISIT WITH EXHIBITORS** - *Foyer*

3:00 pm – 3:45 pm

**Deepwater Horizon Response:
Protecting Health**

Dr. Richard J L Heron

LEARNING OBJECTIVES:

1. Understand the health issues BP faced in the aftermath of the tragic Deepwater Horizon accident, and the unprecedented response to those challenges
2. Gain valuable insights gained and the implications for addressing potential health and hygiene risks in the future

3:45 pm – 4:15 pm **PANEL DISCUSSION**

OEMAC Annual Dinner and Award Ceremony - *Devonian*

6:30 pm Cocktails - 7:00 pm Dinner



TUESDAY, SEPTEMBER 30, 2014

OEMAC Conference Sessions

7:45 am – 8:15 am **BREAKFAST & REGISTRATION** - Foyer

BREAKOUT SESSIONS

8:15 am - 9:05 am	Musculoskeletal and Head Injury	Screening and Surveillance	Standards and Regulations
	<i>MB/Sask</i> Shoulders and Knees: Is a Tear Always a Rip? <i>Dr. John Hickie</i>	<i>Turner Valley</i> Obstructive Sleep Apnea and Fitness to Work in a Safety Sensitive Position <i>Dr. Charles H. Samuels</i>	<i>Leduc</i> The Transportation Appeal Tribunal of Canada: The Role of Medical Practitioners <i>John Michael Badowski</i>
	LEARNING OBJECTIVES: <ol style="list-style-type: none">1. Understand the factors involved in etiology of non-traumatic rotator cuff tears2. Understand the nature of traumatic rotator cuff tears and how degenerative processes may predispose to traumatic tears3. Understand the various types of meniscal tears and mechanisms of injury in acute meniscal tears4. Understand the nature of non-traumatic meniscal tears and the various factors contributing to the degenerative process	LEARNING OBJECTIVES: <ol style="list-style-type: none">1. Be able to assess and determine the pretest probability of a worker's likelihood of having Obstructive Sleep Apnea2. Be able to clinically determine the worker's fitness to work in a safety critical position with respect to daytime sleepiness and inattention3. Have a comprehensive understanding of the sleep physicians role in determining fitness to work	LEARNING OBJECTIVES: <ol style="list-style-type: none">1. Understand the role of the Transportation Appeal Tribunal of Canada within the transportation industry, including the types of cases presented to the Tribunal2. Understand the types of medical cases presented to the tribunal, and the quasi-judicial decisions that are made. This will include both first-level decisions as well as appeal decisions that are made by medical practitioners3. Appreciate the nature of medical suspensions for licence holders (i.e. pilots), how the various Acts impact upon the licence holders, and the need for more medical practitioners by the Tribunal



9:15 am - 10:05 am	Musculoskeletal and Head Injury	Screening and Surveillance	Standards and Regulations
	<i>MB/Sask</i> Understanding the Role of Work in Back Pain <i>Michele Crites Battié</i>	<i>Turner Valley</i> Risk Stratification - Lung Cancer and Occupational Exposures <i>Dr. Christine Kennedy</i>	<i>Leduc</i> Organizational Receptivity to the National Workplace Psychological Health & Safety Standard <i>Dr. JianLi Wang</i>
	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Be able to describe the shift away from an injury model of back pain and the reasons for this 2. Distinguish back pathology, pain and disability and recognize their limited associations 3. Be able to discuss current knowledge on constitutional and environmental influences on back pain and pathology 	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. The learner will be able to distinguish between three types of lung cancer and will be able to apply this knowledge in their clinical practice setting 2. The learner will be aware of the criteria for improving predictive outcomes for occupational exposures and lung cancer 3. The learner will understand the proposed risk stratification model for screening modalities for lung cancer in occupational settings - namely be encouraged to apply a practical office-based tool in clinical practice settings 	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Have enhanced knowledge about the development and content of the workplace psychological health and safety standard 2. Be able to understand employers' attitudes towards the standard 3. Be able to specify the roles of occupational health professionals in promoting workplace mental health

10:05 am – 10:35 am **BREAK & VISIT WITH EXHIBITORS** - *Foyer*

10:40 am - 11:30 am	Musculoskeletal and Head Injury	Screening and Surveillance
	<i>MB/Sask</i> Neuropsychological Assessment: Functional Applications to the Work Setting <i>Dr. Arlin Pachet</i>	<i>Turner Valley</i> Medical Surveillance for Hearing Loss <i>Dr. Ken Corbet</i>
	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Understand the basics of what comprises a comprehensive and useful neuropsychological assessment 2. Appreciate the clinical utility of a neuropsychological assessment when attempting to determine return to work limitations and restrictions 3. Be able to make specific referrals for a neuropsychological assessment, be able to quickly review a neuropsychological assessment report to answer your questions, and be able to ask the assessor specific follow-up questions regarding the results of the evaluation 	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Describe the objectives of a medical surveillance program for hearing loss 2. Compare regulatory vs. risk-based eligibility criteria 3. Describe the essential elements of the audiometric history and testing 4. Determine when medical or audiology referral is indicated

11:40 am – 12:25 pm - <i>MB/Sask</i> CBOM Memorial Lecture – Causation in Mental Illness <i>Dr. Charl Els</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Knowledge of the psychiatric conditions typically appearing in claims 2. Understanding of the step-wise approach to appraising causality 3. Appreciation of the significant barriers to establishing credible evidence in support of causation
12:30 pm – 1:45 pm CONFERENCE LUNCH - BC/AB & OEMAC TOWN HALL MEETING (<i>OEMAC members only</i>) - MB/Sask	
1:45 pm – 2:30 pm - <i>MB/Sask</i> The DSM-5 and occupational medicine practice – Helpful Tool, or Simply a “Book of Woes”? <i>Dr. Charl Els</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Knowledge of the changes from DSM-IV-TR to DSM-5. 2. Skills in navigating the domains where salient changes occurred. 3. Confidence in applying the changed criteria.
2:30 pm – 3:15 pm - <i>MB/Sask</i> K2, Spice & Everything Nice? Synthetic Cannabinoids, Marijuana and Medicine <i>Dr. Hakique Virani</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Understand the health effects of synthetic cannabinoids and marijuana 2. Be aware of regulations that apply to medical marijuana and abide by them in practice 3. Skillfully interpret urine toxicology results when testing for cannabinoids
3:15 pm – 3:30 pm REFRESHMENT BREAK - Foyer	
3:30 pm – 4:15 pm - <i>MB/Sask</i> Substance Use: The Pre-placement Assessment of Safety Sensitive Workers <i>Dr. Paul A. Farnan</i>	LEARNING OBJECTIVES: <ol style="list-style-type: none"> 1. Compare and evaluate screening tools for the assessment of substance use: questionnaires, physical examination, and laboratory tests 2. Using these tools, describe a screening approach to determine whether referral for a substance use assessment is warranted 3. Describe a screening approach for impairment related to pharmaceutical agents
4:15 pm – 4:45 pm PANEL DISCUSSION - MB/Sask	
4:45 pm CLOSING REMARKS - MB/Sask	



Speaker Bios



Dr. Anil Adisesh

Anil Adisesh studied medicine at the University of Liverpool, UK. After completing training in general medicine he qualified in family medicine quickly developing an interest in occupational medicine. He moved to Guy's and St Thomas' hospitals in London (UK) to specialise in occupational medicine. Whilst there he studied for a Masters of Science

in Occupational Health Sciences at the University of Manchester, UK. For his Master's thesis he undertook early research with exhaled Nitric Oxide in occupational asthma and later transferred to the University of Manchester for doctoral studies on the health effects of organic dust exposures. He has been a specialist physician since 1997 and from 2004 worked at the UK national Health and Safety Laboratory.

Dr Adisesh is Chair of the World Health Organisation (WHO) Global Working Group on Occupational Health for the Revision of the International Classification of Diseases (ICD 11). He has worked with the International Labour Organisation Working Group on diagnostic and exposure criteria guidance on occupational diseases compiling information that will be of use to physicians, legislators and others concerned with occupational health. His work at Dalhousie Medicine New Brunswick includes teaching medical students and he is developing training for postgraduate qualified doctors about workplace health and supporting patients in their work.

The broad theme of Dr Adisesh's research is "Long and healthy working lives" recognizing that not only are careers sometimes curtailed through injury and illness but that increasingly we will be working at an older age and we wish to be as healthy as possible throughout our lives.

Dr. Siemiatycki has been an invited speaker at over 150 meetings or seminars throughout the world, including for President Clinton's Cancer Panel and as a Distinguished Lecturer at the U.S. National Cancer Institute. He has authored or co-authored over 180 peer-reviewed articles, 50 scientific reports, and 140 accepted presentations or posters.



John M. Badowski

John is a graduate of the University of Toronto. For many years he has remained associated with the University and sat on its University Affairs Board, as well as the Governing Council.

John was a member of the Toronto Police Service for 27 years where I served in many different units and squads. He spent nine years as a forensic investigator and was the Service's first expert in bloodstain pattern interpretation, used primarily in homicide investigation. He also served extensively in Professional Standards. During his final years he was the officer-in-charge of the Forensic Identification Unit; the Community Programs Unit; and the Marine Unit. During his tenure with the Toronto Police he spent a decade overseeing fourth-year students from the University of Toronto who were conducting forensic research. This

resulted in published research papers on various topics such as fingerprint recovery underwater, the decomposition of pig-cadavers in Lake Ontario, and the interpretation of bloodstains on fabrics. As well, he oversaw a "diversion" program for youths in trouble with the law.

John has served in Africa during the 1994 genocide in Rwanda and was awarded the Meritorious Service Medal of Canada (M.S.M.) He also received the Prague Medal from the government of Romania for assisting that country's entry into NATO.

On January 1, 2014 he was appointed by Order-in-Council to the Transportation Appeal Board of Canada.



Dr. Jeremy Beach

Jeremy Beach is Associate Professor in the Department of Medicine and Residency Program Director for the Occupational Medicine residency program at the University of Alberta. He has held this post since 2002. He is active in a number of research projects in the area of the epidemiology of work-related diseases, as well as projects on

understanding how health care workers understand the concept of causation. His current work also involves supervising residents and overseeing the residency program, one of only three in Occupational Medicine in Canada. He contributes to other undergraduate and graduate teaching, running a course on Occupational and Environmental Disease (PHS 520) for graduate students, and supervising a number of graduate students.

He trained in Medicine at the University of Newcastle upon Tyne, UK, qualifying in 1983. He subsequently worked in General Internal Medicine and Respiratory Medicine and then moved to a research position leading a project studying occupational asthma in shipyard welders. He went on from this to train as a specialist in Occupational Medicine. In his work in Occupational Medicine he has combined work in academia at the University of Birmingham and Monash University in Australia; work in industry, becoming Senior Medical Officer with a major multinational engineering company; and the health service, working as a specialist in occupational medicine at hospitals in Birmingham and Bradford, UK (where he had responsibility for the occupational health of physicians and physicians in training), as well as a specialist in Occupational Lung Disease at the Birmingham Chest Clinic.



Dr. John Brennan

Dr. John Brennan currently practises a mix of Family, Emergency, Sports, And Occupational Medicine in Parry Sound Ontario. He has been the medical director of Honda of Canada Manufacturing since 2000 (5000 employees). He also serves as a consultant to multiple other smaller manufacturers and school boards. He has acted as medical

consultant to Molson Breweries, Purolator Courier, and Campbell's Soup.

He graduated from engineering at the University of Waterloo and from Medicine at the University of Western Ontario. Additionally he has his Diploma in Sports Medicine. He has a keen interest in return to work and musculoskeletal issues. He has multiple patents for exercise and rehabilitation equipment and is currently doing research with the University of Ontario Institute of Technology in the field of applying gaming technology to exercise and rehabilitation (exergaming).

Dr. Brennan is currently an Assistant Professor at the Northern Ontario School of Medicine as well as Laurentian and Lakehead Universities.



Dr. Kenneth Corbet

Dr. Corbet is a specialist in occupational medicine and a Clinical Associate Professor in the Department of Community Health Sciences, University of Calgary.

He has developed courses, lectures, and learning resources in occupational medicine for undergraduate, graduate, and continuing medical

education programs. He has served as Chief Examiner in Occupational Medicine with the Royal College of Physicians and Surgeons of Canada.

Dr. Corbet has consulted in the rehabilitation, rail, oil and gas, petrochemical, and small business sectors, and just completed a three-year term with the Transportation Appeals Tribunal of Canada.

His ongoing interests include the assessment of fitness to work, medical surveillance, and hearing loss.



Dr. Michele Crites Battié

Michele Crites Battié, PhD, is a professor in the Physical Therapy Department at the University of Alberta and has held a Tier 1 Canada Research Chair in Common Spinal Disorders since 2002. Before joining the University of Alberta, she worked as a research associate professor in the Department of Orthopaedic Surgery at the University of Washington.

Her broad research interests include common spinal conditions, such as lumbar spinal stenosis, intervertebral disc degeneration and low back pain problems. She also has a longstanding interest in factors influencing back pain reporting and disability in the workplace.

Dr. Battié has contributed nearly 150 original research publications and written over 25 book chapters. Her group's work has been recognized with

a number of prestigious international research awards, including 5 Volvo/ ISSLS Prize Awards from the International Society for the Study of the Lumbar Spine and 2 Kappa Delta Awards from the American Academy of Orthopaedic Surgeons.



Dr. Charl Els

Dr. Charl Els is a psychiatrist, addiction specialist, and medical review officer. He is first Editor / co-author of a textbook on tobacco control, funded by Health Canada. Els is also an Associate Clinical Professor and an Editor for BioEthique Online. He regularly conducts assessments on employees in safety-sensitive positions.



Dr. Paul A. Farnan

Dr. Farnan has worked in the field of occupational medicine and addiction medicine for more than twenty years. As well as being a member of the Occupational and Environmental Medical Association of Canada, he holds additional certification in Addiction Medicine and Family Practice, and he is a Clinical Associate Professor, Department of Family

Practice at the University of British Columbia.

His consulting with employers and unions has involved developing and delivering programs to assist employees whose work is impacted by addiction and mental health problems. He has assessed and provided treatment recommendations for thousands of individuals with addictive disorders, especially those involved in safety sensitive work.



Dr. Francis H. Y. Green

Dr. Green received his medical degree from the University of Manchester, UK in 1968 and an MD degree in Pathology from the same institution in 1978. From 1977 to 1985 he was Chief of the Pathology Section of the National Institute for Occupational Safety and Health (NIOSH) in Morgantown, West Virginia, USA where he received

extensive experience in occupational lung diseases both from the research and legislative perspectives. In 1985 he moved to the University of Calgary as a Medical Scholar under the Alberta Heritage Foundation for Medical Research. His current position is Professor in the Department of Pathology and Laboratory Medicine at the University of Calgary. He also has a clinical appointment with Calgary Laboratory Services.

His major research interests are occupational lung disease and asthma. With Dr. Andrew Churg, from UBC, Vancouver, he has co-edited a textbook entitled Pathology of Occupational Lung Disease, now in its second edition. He has published more than 100 research papers on occupational lung diseases, including silicosis, coal worker's pneumoconiosis, asbestosis, and diseases due to silicates. When he was Section Head of the Pathology

Department at the NIOSH Laboratories in the US, he supervised experimental studies of pneumoconiosis, ran the National Coal Worker's Autopsy Program, and developed pathologic standards for the diagnosis of the major pneumoconioses, standards that are still used today by pathologists both for diagnosis and research. More recent contributions to the field include examination of mineral dusts in farm workers' lungs, determining the relationship between smoking, coal mine dust exposure and emphysema and an analysis of the effects of the 2 mg per cubic meter coal dust standard on pathologic severity and type of pneumoconiosis in US coal miners. Currently Dr. Green is lead pathologist on a study of rapidly progressive coal worker's pneumoconiosis in US coal miners. The recent upsurge in prevalence and severity of pneumoconiosis in US coal miners is thought to be in part related to increased exposure to freshly fractured crystalline silica due to new technologies that remove more of the rock overburden and under burden.

Finally, Dr. Green's expertise in pathology has led to the development of a rescue therapy for acute asthma. He holds patents for the rights to this technology and has founded a company (SolAeroMed) in conjunction with the University of Calgary to commercialize the invention. Currently the drug is in clinical trials.



Dr. Douglas Hamm

Dr. Hamm is a specialist in occupation medicine practicing in Victoria and Vancouver. He is a clinical assistant professor in the School of Population and Public Health at UBC and provides referral consultations to community physicians at the Occupational Medicine Clinic at Vancouver General Hospital and third party assessments to employers,

unions, insurers, and legal parties. He has had a longstanding interest in enhancing the occupational medicine skills of family physicians through chairing the examination committee of CBOM for 10 years and currently is co-facilitating a pilot program for the University of Alberta's Foundation Course in Occupational Medicine in BC.



Dr. Richard J. L. Heron

Richard is the Vice-President Health and Chief Medical Officer at BP with responsibility for strategic development of the BP Group Health agenda including Employee Wellbeing, Occupational Health and Hygiene requirements for over 85,000 employees and Community and Public Health matters in the countries where BP operate.

He trained in internal medicine in UK and Auckland, New Zealand, before specializing in Occupational Medicine. Richard joined BP in May 2006 from AstraZeneca pharmaceuticals where he was Head of Global Safety, Health and Risk Management.

He is President of the UK Faculty of Occupational Medicine, a Fellow of the Royal College of Physicians (UK), and Fellow of American College of Occupational and Environmental Medicine

Richard is honorary Professor of International Business and Health, Institute of Work Health and Organizations, University of Nottingham.



Dr. John Hickie

John Hickie is a family physician based in Calgary. His current practice is in assessing workplace injuries on behalf of the Alberta WCB. Dr. Hickie also performs fitness to work examinations and medical legal independent evaluations for Viewpoint Medical Assessments. Medical interests are in musculoskeletal medicine, brain injury, pain and

electrical injury. In addition to his medical practice Dr. Hickie sits on the Board of Governors and Senate of the University of Calgary.



Dr. David Jarman

Dr. Jarman completed a B. Sc. in Biochemistry at McGill University in 1976, and MD at l'Universite de Sherbrooke in 1980. He then went on to a family practice residency at Memorial University of Newfoundland, and worked as a family physician in Stephenville NF, and then Quesnel BC, until 1992.

Dr. Jarman never did comfortably adapt to the constant sleep deprivation associated with small town family medicine, and decided to switch to a salaried job. He has worked as a medical advisor to WCB in BC since then. The work consists of giving advice on any and all medical issues related to workplace injuries and illnesses based on file reviews, examination of workers, visits to workplaces, conversations with treating physicians and other treatment providers, and arranging specialist consultations. The goal is to provide injured workers, within the confines of applicable policy and law, with what they need to return to gainful employment with the least possible disruption to the lives of themselves and their families. Dr. Jarman obtained CCBOM certification in 2008.



Dr. Christine Kennedy

Dr. Kennedy graduated with a Medical Degree from the University of Calgary (MD 2004), and with Master's degrees in Community Medicine (MUN 1997), and Economics (Oxford1998) and has a doctorate in Health Economics (Oxford 2000). She holds a CCFP in Family Medicine (Queen's 2006) and a FRCPC in Public Health and Preventive Medicine

(Queen's-Community Medicine). Christine has extensive knowledge and varied experience in the practice of occupational medicine including: as a researcher and teacher, clinical trainee, Senior Public Health Economist and consultant (National and International-WHO Expert Panel on Human Health Effects of Radon Gas). She has published extensively on the cost-effectiveness of Radon gas exposure and remediation. She currently practices preventive medicine and occupational medicine in Alberta and Ontario.



Dr. Arlin Pachet

Dr. Pachet is one of a select few Board Certified Clinical Neuropsychologists in Western

Canada. He has a wealth of clinical experience working with patients with brain injury and mental health issues, he has maintained a private practice since 2003, and he has worked and managed two

brain injury rehabilitation programs in Alberta. As part of Dr. Pachet's clinical practice, he commonly completes neuropsychological assessments, cognitive screens, comprehensive psychological evaluations, vocational assessments, and concussion and capacity evaluations. Dr. Pachet has provided numerous training workshops within Alberta Health Services and abroad specifically related to acquired brain injury and capacity evaluation. Lastly, Dr. Pachet has a wide variety of professional presentations and publications in the fields of capacity assessment, test construction, test validity, and acquired brain injury, and he has provided expert testimony to the Courts of Queens Bench within various jurisdictions in Canada.



Dr. Kevin Percy

Dr. Kevin Percy is Executive Director of the independent, not-for-profit, consensus-based Wood Buffalo Environmental Association (WBEA), located in Fort McMurray, Alberta. WBEA membership includes Aboriginal, ENGO, government, and industry sectors. The multistakeholder WBEA monitors air quality, terrestrial environmental effects, and human

exposure to air emissions within the Regional Municipality of Wood Buffalo, including the Athabasca Oil Sands Region.

Dr. Percy has lived in Fort McMurray for five years. He holds a PhD from the University of Bristol (1987), England, M.Sc. (1979) and B.Sc.F. degrees from the University of New Brunswick, Fredericton, Canada.

Prior to joining WBEA as Lead Scientist in January 2009, Dr. Percy was Senior Scientist-Global Change (air pollution/climate change) with Natural Resources Canada. Until May 2009, Dr. Percy served as a Principal Investigator and Co-Director of the world's largest greenhouse gas-forest experiment. The ecosystem-scale Aspen FACE (Free Air Carbon Dioxide Enrichment) Experiment was located in Rhinelander, Wisconsin (<http://aspenface.mtu.edu/>). It was primarily supported 1997-2008 by the US Department of Energy, and comprised over 110 scientists from 9 countries.

Dr. Percy currently serves on the Council of Canadian Academies (Royal Society of Canada, Canadian Academy of Engineering, Canadian Academy of Health Sciences) Expert Panel on the Potential for New and Emerging Technologies to reduce the Environmental Impacts of Oil Sands Development.

Dr. Percy has authored numerous scientific publications in leading journals and books, including the recently published (December 2012) peer-reviewed book *Alberta Oil Sands: Energy, Industry and the Environment* (Elsevier, Oxford). Among his other publications are those on air pollutant exposure-

response in field and experimental settings, new monitoring concepts/design, and retrospective state of science analyses.

Dr. Percy has served in various capacities on the IPCC Fourth Assessment process, the International Union of Forest Research Organizations (IUFRO) Expert Panel on Adaptation of Forests to Climate Change, as well other Canadian multistakeholder processes. He has been involved in air pollution research and the APW since 1977.



Dr. David Pettit

Dr. Pettit is an Occupational Medicine specialist and currently practices occupational, aviation and diving medicine on Vancouver Island.

He has a long association with the aviation industry over many years and in a number of capacities, including aircraft accident investigation.

Dr. Pettit maintains an interest in the health and safety of industry workers and the potential for adverse third party consequences in the event of human performance failure in the aviation industry.



Diane Radnoff

Diane Radnoff is a Chemical Engineer and Industrial Hygienist. She obtained her Bachelor of Science in Chemical Engineering from Queen's University in Kingston, Ontario and her Masters of Engineering in Industrial Hygiene from the University of Toronto.

Ms. Radnoff has had extensive experience in both the environmental and occupational health and safety fields. Her first position was with Environment Canada, developing and testing innovative environmental remediation technology for spill clean-up. She worked for over 15 years in the consulting field, specializing in assessment of environmental and health and safety issues and the development and implementation of environmental remediation at industrial, residential, commercial and First Nation sites.

Ms. Radnoff has been with the Alberta government since 1999. She is responsible for technical support to the department and external stakeholders regarding industrial hygiene issues. She also develops policy and interpretations related to the Alberta legislation.



Dr. Charles H. Samuels

Dr. Samuels is the Medical Director of the Centre for Sleep and Human Performance, a College of Physicians and Surgeons of Alberta, and American Academy of Sleep Medicine accredited sleep centre in Calgary, Alberta. The Centre provides clinical and diagnostic services in a community based setting.

His clinical practice and research focus on the effect of sleep deprivation and disruption on health and performance. Dr. Samuels is actively involved in the development and implementation of Sleep Education Programs for the Department of Continuing Medical Education at the University of Calgary. Dr. Samuels is the Past VP Clinical of the Canadian Sleep Society, a member of the Institute of Public Health at the University of Calgary and has served as the Vice-Chairman for the Research Ethics Review Committee of the College of Physicians and Surgeons of Alberta.

Dr. Samuels' was the lead investigator of the Calgary Police Service Health and Human Performance Research Initiative. This was a 10-year North American collaborative project including Harvard University, New York State University Buffalo, Washington State University and the US National Institutes of Occupational Safety and Health, exploring the impact of rotating shift work on the health and performance of police officers. This research led to the publication of "Sleep Loss in Police and implications for Other First Responders and the Military," a chapter in Principles and Practice of Sleep Medicine, which Dr. Samuels co-authored with Dr. Bryan Vila.



Dr. Sol Sax

Sol Sax has been an occupational physician for over 30 years. Although a family physician at heart, he started his occupational career in 1980 as a staff physician with Ontario Hydro (Now OPG) and became chief physician in 1986. He spent 2 years as a self-employed consultant with Boeing Canada, and Toronto Star Newspapers as Medical Director

(1989 to 1991), and subsequently spent almost 20 years with the DuPont company first as Medical Director for Canada and then as Global Medical Director. Since leaving that role in 2007, he has worked for many different organizations including GE in the part-time role of Medical Director – Canada since Jan 2013, GSK, Hamilton Hospitals Assessment Center, Tonolli, Kinross gold, Vale –Inco, and others. He has been a Medical Consultant to the WSIB, AECB and been involved in many international committees, task forces and advisory boards.

He has been a member of the Toronto YMCA health advisory committee, and an executive on numerous professional organizations, including Treasurer for the Occupational and Environmental Medical Association of Canada (1997-2002), President of the Ontario Society for Occupational and Environmental Medicine and Chair of the Alliance of SHE professionals of Ontario. He is a past chair of the OMA section of Occupational and Environmental Health. He

is a lecturer in the Faculty of Medicine at the University of Toronto and the Northern School of Medicine. He has also been an examiner for both the Royal College and the Canadian Board of Occupational Medicine.

Born in Western Australia Sol graduated from University of Toronto with degrees in both Eng. Sci. (1973) and Medicine (1978). He has a postgraduate diploma from McMaster University in Occupational Safety and Health (1981) and received his fellowship designation as an Occupational Health specialist from the Royal College of Physicians Canada in 1989. He is an active outdoor enthusiast who loves to play tennis, cycle, and spend time puttering at his cottage.



Dr. A. Robert Schnatter

Rob is a Senior Scientific Advisor in Occupational Health at ExxonMobil Biomedical Sciences, in Clinton, NJ. USA. He is Fellow of the American College of Epidemiology and the sole industry advisor for the US National Death Index. He has a doctorate in Epidemiology from Columbia University and a master's in biostatistics from the University

of Pittsburgh. Rob's primary focus has been on the health effects of benzene exposure, and recently completed two major efforts: the first was a multi-disciplinary examination of benzene's health effects in various Shanghai-area industries, while the second was an international pooled analysis of benzene-exposed petroleum workers. Rob was also lead author on a Canadian study of Imperial Oil workers which was part of the international pooled analysis, and also has performed cohort studies in these workers that examined the effects of asbestos and other exposures in these workers. He also chairs his company's senior technical council, which encourages technical health over a broad range of research and engineering disciplines. He is a frequent mentor, journal reviewer and advisory committee participant on benzene exposure and the role of epidemiologic data in risk assessment.



Dr. Hakique Virani

Hakique is certified as a specialist physician both in Addictions Medicine (by the American Board of Addictions Medicine) and Public Health and Preventive Medicine (by the Royal College of Physicians and Surgeons of Canada). He is a Clinical Assistant Professor in the Faculty of Medicine and Dentistry and the University of Alberta. He

has served in a variety of leadership positions in the medical community and beyond. Since beginning his career, he has worked in executing public health approaches to critical issues such as prescription drug abuse and dependency, pandemic response, and population health disparities experienced by Canada's First Nations people.

He serves on the College of Physicians and Surgeons Advisory Committee on Methadone Maintenance Treatment, and has been a member of the provincial Coalition on Prescription Drug Misuse since its inception as the first cross sectoral collaborative effort of its kind in Canada. He also sat on the National Advisory Committee which delivered Canada's national strategy on prescription drug abuse - First Do No Harm. Hakique teaches the Alberta version of the core course on Opioid Dependency Treatment for the Centre for Addiction and Mental Health.

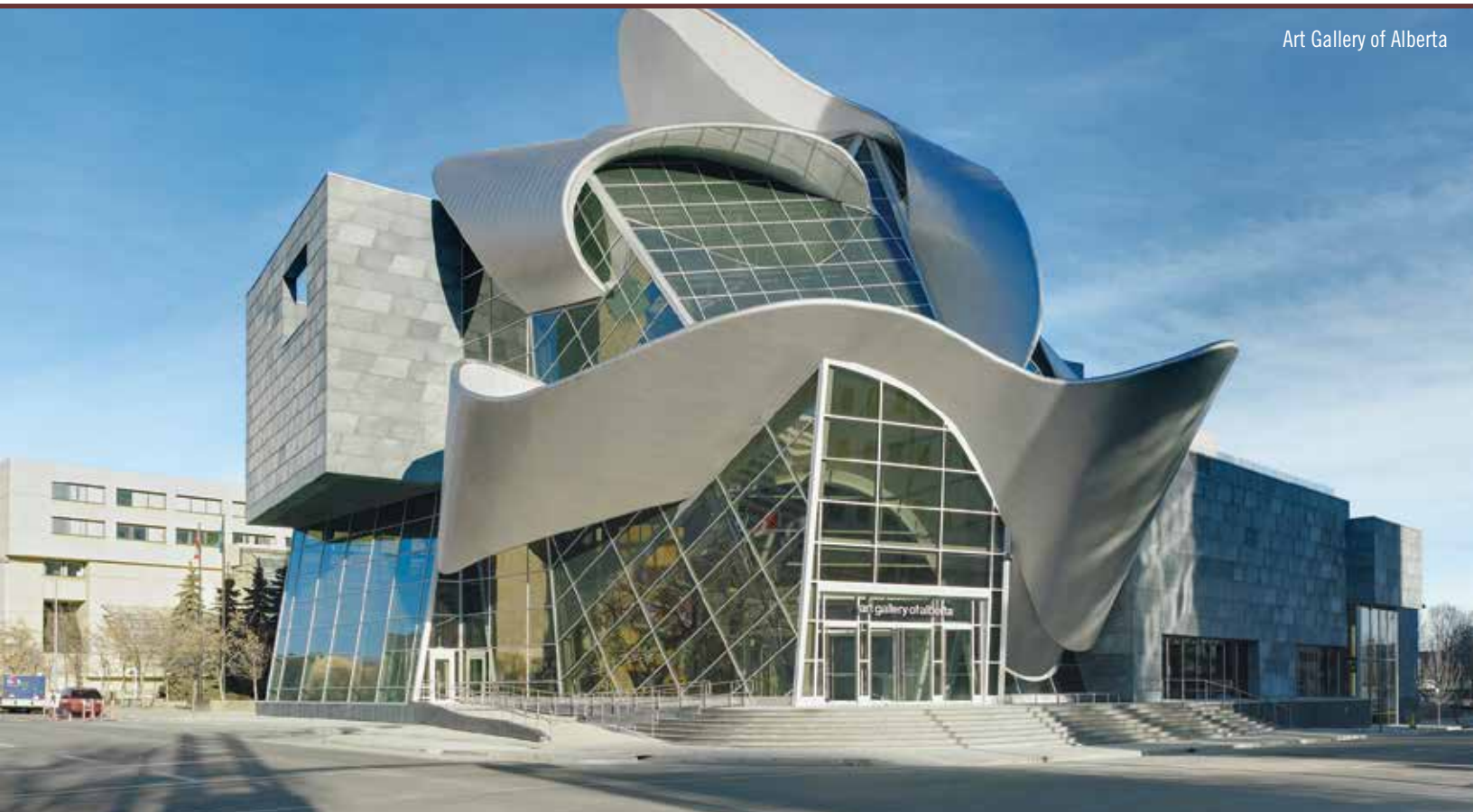
In recognition of his contributions to health care and the community at large, Hakique was recognized as one of Avenue Magazine's Top 40 Under 40 in Edmonton.



Dr. JianLi Wang

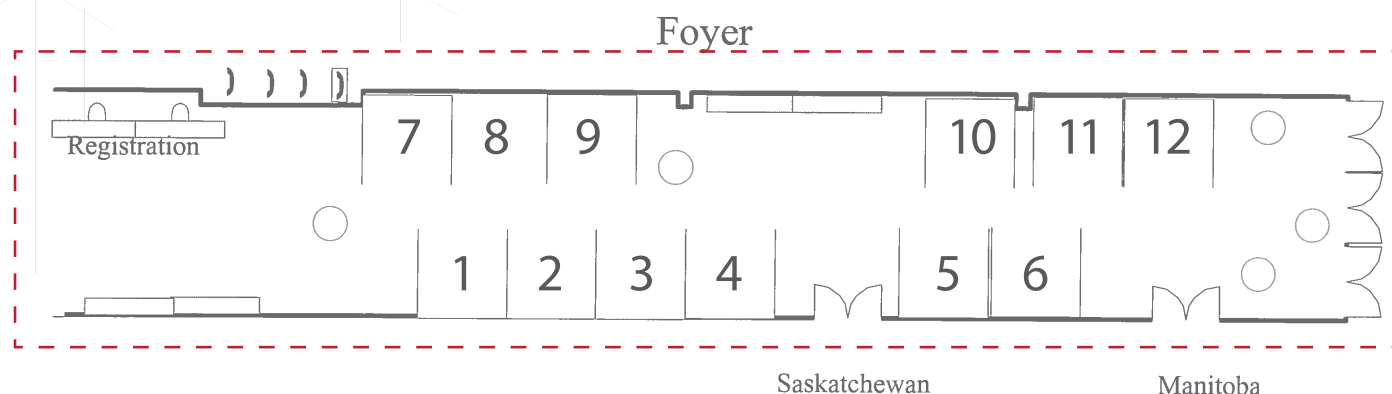
Dr. JianLi Wang is an associate professor of the Departments of Psychiatry and of Community Health Sciences, Faculty of Medicine, University of Calgary. He received his PhD (Epidemiology) from the University of Calgary. His research interests are in psychiatric epidemiology with a focus on developing prediction tools for early identification

of mental disorders, and workplace mental health. Dr. Wang is leading research projects, funded by the Canadian Institutes of Health Research, on investigating workplace factors that trigger depressive and anxiety disorders, the impacts of workplace factors and mental disorders on employees' productivity (presenteeism and absenteeism) and intention to leave, and workplace mental health accommodations for employees with a mental disorder.



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