



Canadian Academy of Health Sciences  
Académie canadienne des sciences de la santé

## HEALTH MATTERS Volume 5; Issue 3; October 2017

Welcome to the CAHS Newsletter, your source for updates on activities of the Canadian Academy of Health Sciences.

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### PRESIDENT'S MESSAGE



Dear CAHS colleagues,

It is a terrific honour to be elected 7<sup>th</sup> president of the CAHS.

My focus over the next 2 years will be to build on and extend the fine work led by my distinguished predecessors. In particular, I am grateful for having served as President-elect during Carol Herbert's term as President. I have big shoes to fill!

Since our founding in 2005, much has been accomplished in service of our vision of informed actionable solutions that improve the health of Canadians. We have established an Annual Forum and have produced 9 major assessments, all of which have had impact. We have done this with the selfless volunteering of time, effort, and expertise of our Fellows, coupled with the unparalleled support of this office by Allison Hardisty.

We now need to move on to the next level. Key to our moving forward is the appointment of our inaugural Executive Director, Eleanor Fast. Eleanor has the experience and skills we need for the next phase of our evolution. My dual focus, working with Eleanor, our Board, and President-elect Paul Allison will be to build (federal) government relations and achieve financial stability. More to come on all of this.

In the meantime, I am grateful for your support, and I look forward to hearing from you!

Sincerely,

Linda Rabeneck MD MPH FRCPC

### WELCOME 2017 ELECTED BOARD MEMBERS

*Discipline Director, Veterinary Sciences*

*Discipline Director, Pharmacy*

### Headlines

Committee Reports  
National Forum  
Strategic Directions  
Assessment News  
Fellow Spotlight & News  
Important Dates



### SECRETARY'S NOTE

Please mark your calendars for the 2018 CAHS Forum & Annual General Meeting being held in VANCOUVER on **Thursday & Friday, September 13 & 14, 2018** at Marriott Pinnacle Downtown Hotel.

I am delighted report an increase in our social media analytics! We now have over 1285 tweets, over 350 followers (3 times greater than last year which was only 115 followers) and we are following over 500 others. Our CAHS tweet impressions has increased to over 2,000 per week now.

- [Following](#) [Following 531](#)
- [Followers](#) [Followers 350](#)
- [Likes](#) [Likes 1,074](#)

James (Jay) C Cross  
University of Calgary



Shana Kelley  
University of Toronto



*Nomination from the Floor*  
Sioban Nelson  
University of Toronto



*Discipline Director, Dentistry*  
Christopher M. Overall  
University of British Columbia



If we have missed out on any key member news, such as **major** awards or transitions of particular note among our Fellows, please let us know.

Sincerely,  
*Kishor Wasan, PhD*  
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## A NOTE FROM ELEANOR FAST, EXECUTIVE DIRECTOR

I am thrilled to join CAHS as the inaugural part-time Executive Director. My first week in the role was spent at the CAHS Annual Forum and AGM and it was a wonderful immersion into the organization. It was inspiring to meet so many of you and learn about your tremendous contributions to the health sciences. Thank you for the warm welcome. It is an honour to work with you. Because my role is part-time I will need to focus in order to have an impact. Initially my time will be dedicated to making a difference in fundraising, government relations and communications. I will be working closely with the President, and with the Government Relations Committee and the Development and Strategic Communications Committee to achieve these goals.

I join CAHS from Nature Canada, a national nature conservation charity, where I was Executive Director. Previously, I worked for five years as a Program Director at the Council of Canadian Academies (CCA), leading expert panel assessments. I have also worked in science policy at the Federation for the Humanities and Social Sciences, Parliament of Canada and the British High Commission in Ottawa. I am really excited to now join the CAHS.

Thanks for the amazing work you do as Fellows of the CAHS. I look forward to having an opportunity to meet everyone over time. Please don't hesitate to get in touch – hearing from Fellows is the favourite part of my day! I can be reached at [Eleanor.fast@cahs-acss.ca](mailto:Eleanor.fast@cahs-acss.ca)

## WELCOME 2017 NEW FELLOWS

An important activity at our annual event is the formal Induction of new Fellows into the Academy. We welcomed 52 New Fellows this year. Of these, 42 joined us in Ottawa and participated in the ceremony. It was a wonderful evening that brought together friends new and old. It was humbling too to hear of the extraordinary achievements of this cadre of individuals!



#### **GREGG PATRICK ADAMS**

Dr. Adams is one of the most accomplished, respected and unique reproductive biologists working today. He has published foundational studies on the mechanisms by which mammals pass their genes from generation to generation, and his work spans aspects of reproduction in all species, including humans. An internationally recognized leader in his field, Dr. Adams has served in numerous leadership roles, including President of the International Embryo Technology Society. The recipient of many awards and recognitions, Dr. Adams was named the Theriogenologist of the Year in 2014 by the American College of Theriogenologists.



#### **JEHANNINE CLAIRE AUSTIN**

Dr. Austin's pioneering genetic counseling research - showing that genetic counseling has meaningful benefits for people with psychiatric disorders and their families - has been acknowledged with national and international awards. The impact of her research led to a Canadian innovation in health care; the founding of the award-winning, world's first, specialist psychiatric genetic counseling service. The activities of the service are influencing health services worldwide and provide a deeply meaningful understanding for patients and their families.



#### **ZUBIN AUSTIN**

Dr. Austin is a Professor of Pharmacy and holder of the Koffler Research Chair at the Leslie Dan Faculty of Pharmacy, University of Toronto. His research focuses on professional and personal development in the health care workforce, with particular emphasis on internationally educated health professionals. He has published 90+ peer reviewed manuscripts, three textbooks and he has given 50+ international keynote presentations and seminars. He is an award winning educator having received the Association of Faculties of Pharmacy of Canada Education Excellence Award and the Province of Ontario Leadership in Faculty Teaching Award. He was named a 2016 Canadian Academic Leader by Pharmacy Business Magazine.



#### **A. DEAN BEFUS**

Dr. Befus is internationally recognized for fundamental discoveries, development and translational research in allergy, asthma and inflammation. Specifically: 1) mast cell function and its regulation in inflammation and host defences; 2) a brain-body pathway with anti-inflammatory activity, development of novel therapeutics from this pathway and their application in clinical trials; and 3) patient-centered self-management programs for asthma. He has provided innovative leadership based on integrity, openness and responsible management across provincial, national and international organizations. He has championed scientific exchanges through international collaborations and disseminated his energy, enthusiasm and humanity through skilled mentorship of trainees around the world.

**LARA A. BOYD**

Dr. Boyd is Professor and Canada Research Chair in the Department of Physical Therapy at the University of British Columbia. She is recognized internationally as a leader in the neurobiology of motor learning. Her research has developed new understandings of how the brain adapts to neurological disease and she has developed novel methods to harness brain recovery after injury and disease. She has demonstrated a long commitment to advance health sciences through her role as the University Health Research Advisor, as well as several senior roles where her efforts have led to the advancement of women in science.

**LAURENT JEAN BROCHARD**

Dr. Brochard is the Keenan Chair in Critical Care Medicine and Acute Respiratory Failure at St Michael's Hospital and the Director of the Inter-Departmental Division of Critical Care at the Faculty of Medicine, University of Toronto. He is leading international collaborative groups to improve the care of patients in intensive care units and is an expert in mechanical ventilation, acute lung injury and acute respiratory distress syndrome. His research and leadership in the field has revolutionized the standard of care for these critical patients through the development of new treatment strategies and clinical guidelines.

**MIGUEL NOEL BURNIER JR.**

Dr. Burnier Jr. is a Professor of Ophthalmology, Pathology, Oncology, Medicine and Surgery at McGill University and the Director of Training and Development at the Research Institute. He is recognized as a visionary leader in Ophthalmology and Pathology, being the only double Boarded physician in Canada. His Ocular Pathology Lab is internationally recognized as one of the best in the world. His research in ocular diseases and ocular tumors, as well as new ocular imaging techniques, is cutting edge and making a great impact in the field. He is a much sought after guest speaker at conferences around the world.

**JULIE CARRIER**

Julie Carrier is an international leader in sleep and circadian research. She created the Canadian Sleep and Circadian Network to mobilize the health care community to adopt an integrated approach towards improving outcomes and treatment of patients with sleep disorders. Her work identified key mechanisms underlying age-related changes in the sleep and their functional consequences on physical and cognitive health in normal and pathological aging. She has received several scientific distinctions, has 145+ publications and has presented her work around the world. She is actively involved in knowledge mobilization giving numerous media interviews and conferences for clinicians, patients and the public.





#### **MICHAEL WILLIAM HENRY COUGHTRIE**

Dr. Coughtrie is a distinguished scientist, educator and mentor who is a passionate advocate for the health sciences and for the importance of collaborative practice in delivering high quality health care. Under his leadership, the Faculty of Pharmaceutical Sciences at UBC has shown true innovation in education of health professionals, delivered translational research with real impact and implemented new models of collaborative health care highlighting the role of pharmacists in interdisciplinary primary care. He is committed to continuing to advocate for the critical importance of all the health sciences in driving improved patient outcomes, delivering value and providing economic impact.



#### **MICHAEL DAVID J. CUSIMANO**

Dr. Cusimano is a Neurosurgeon at St. Michael's Hospital, the University Health Network and the Hospital for Sick Children, and a Professor of Neurosurgery, Education and Public Health at the University of Toronto. He also leads the Injury Prevention Research Office at St. Michael's Hospital. His development of endoscopic skull base surgery has become the norm internationally and his identification of the risk factors and outcomes of traumatic brain injury has been translated to new policy. As a leading researcher in brain injury and neurosurgery, he continues to be sought out as an expert in the field nationally and abroad.



#### **MIROSLAW CYGLER**

Dr. Cygler is one of the world's most accomplished and progressive structural biologists, and his many seminal discoveries have significantly shaped knowledge in the area of structural enzymology and the interactions of proteins and carbohydrates. His current research concentrates on structural views of host-pathogen interactions. Dr. Cygler has received numerous awards and honours, and currently is a Canada Research Chair in Molecular Medicine Using Synchrotron Light at the University of Saskatchewan.



#### **FAITH G. DAVIS**

Dr. Davis is an internationally recognized cancer researcher and leader in academic public health. She has identified factors that influenced the occurrence and survival of rare cancers, especially brain and ovarian cancers. She has also made major contributions in characterizing the cancer risks of low dose exposure to ionizing radiation. She had a distinguished academic career based at the University of Illinois-Chicago. In 2012, she returned to her home province of Alberta, and is now Vice Dean of the School of Public Health, University of Alberta, embarking on a new phase of her career while continuing with her research work in brain cancer.



#### **MARC RONALD DEL BIGIO**

Dr. Marc Del Bigio is an internationally recognized clinician-scientist. He conducts innovative research to understand how the developing brain can be damaged while in the mother's womb or following birth. He has published 200+ peer-reviewed scientific papers and 19 book chapters. His program has been consistently funded by grants since 1994. He was honored as the Tier 1 Canada Research Chair in Developmental Neuropathology from 2004-2018. Dr. Del Bigio also works as a neuropathologist, with special interest in forensic neuropathology. As a Professor of Pathology, he is active in training the next generation of Manitoba pathologists and researchers.



#### **MICHAEL JAMES DUNBAR**

Dr. Dunbar is an orthopaedic surgeon at Nova Scotia Health Authority and Dalhousie University and the QEII Foundation Chair in Arthroplasty Outcomes. He has a PhD in evaluating outcomes after joint replacement surgery and he holds leadership positions with the Canadian Joint Replacement Registry, the Canadian Arthroplasty Society and the International Knee Society. He has authored 100+ scientific papers and has delivered 300 presentations world-wide. As principal or co-investigator his grant capture is \$24+ Million. He received the Samson Award for outstanding orthopaedic research in Canada over a ten-year period and was named one of the top 22 knee surgeons in North America by his peers.



#### **ALAN CHARLES EVANS**

Dr. Evans is a global leader in the field of brain mapping – the interface between information science and neuroscience. Over 30 years, his work has changed the way in which we study the structure and function of the developing brain and the causes of neurodegenerative disorders. His initial work was with neuroimaging but more recently, he has employed big data approaches to combine brain imaging data with behavioural and genetic information. He has trained a generation of young neuroimaging scientists and built an international network of collaborators using his high-performance computing platform, CBRAIN, for brain research.



#### **MARTIN FORTIN**

A family doctor for more than 30 years and a full professor at the University of Sherbrooke, Professor Martin Fortin is a world leader in the field of research and knowledge translation on multiple chronic conditions, known as multimorbidity. His work is aimed at improving care interventions for people with multimorbidity. His enormous contribution to this previously under-documented field focuses on the definition of concepts, methodologies and the application of new care approaches that are better suited to these people and that foster interprofessional collaboration, including working with decision makers in the health system.



#### **PIERRETTE GAUDREAU**

A biology of aging specialist and Professor of Medicine, Dr. Gaudreau devotes her career to the identification of new mechanisms underlying successful and unsuccessful aging. Her main discoveries are in the field neuroendocrinology and neurosciences. She is truly visionary in her interdisciplinary approach, using both pre-clinical models and cohorts of aging populations. As Director of the Quebec Network for Research on Aging, she developed an important national and international network of collaborations in research and training and initiated large partnerships around the world. She is firmly engaged in the acceleration of translating discoveries into actions that will favor healthy aging.



#### **JANICE E. GRAHAM**

Dr. Graham is an internationally recognized anthropologist of Science, Technology and Medicine at Dalhousie University. Studying the construction of evidence by clinical and regulatory cultures, she has established novel ethnographic and qualitative approaches for health technology assessment. From fieldwork among people in the Canadian Sub-Arctic, long-term care facilities, Health Canada, Sub-Saharan Africa and the World Health Organization, she has presented evidence for the Science Policy Directorate, the Office of Legislative and Regulatory Modernization, the Parliament of Canada, WHO and United Nations on regulatory risks of industry capture of research on the safety and effectiveness of emerging therapeutics and vaccines.



#### **RICHARD L. HORNER**

Dr. Horner has advanced knowledge in respiratory and sleep science by elucidating the cellular mechanisms of the brain responsible for the impact of sleep on breathing. This knowledge is particularly relevant to clinical disorders of breathing during sleep, including obstructive sleep apnea, and has guided clinical trials of possible pharmacological approaches to its treatment. Dr. Horner has also contributed to public understanding of sleep science, through both the popular media and through a book he has written for the lay person that highlights the importance of sleep within the broader contexts of evolution and biology.



#### **SUSAN ELIZABETH HORTON**

Dr. Horton is best known for her innovative work on the economics of nutrition interventions in low and middle income countries. Her presentation at the 2008 Copenhagen Consensus, where micronutrients were acclaimed as the top development priority, and her book estimating the global cost of scaling up nutrition programs, were influential in prioritizing nutrition in the international policy agenda. She is currently breaking new ground by applying economics to obesity and cancer in low and middle income countries. She has presented her work in more than 40 countries and served on over a dozen high-level international boards and advisory committees.





#### **EILEEN KATHERINE McNALLY HUTTON**

Dr. Hutton is Assistant Dean of the Faculty of Health Sciences (Midwifery) at McMaster University and an internationally recognised educator and clinical research scientist. She was the first midwife to be appointed Professor in the Netherlands with an endowed Chair of Midwifery Sciences at Vrije University. Her 145 peer-reviewed publications evaluate low risk maternity care including: twin birth, breech pregnancy, vaginal birth following caesarean, fear of childbirth, prenatal screening, lifestyle, and home birth. Dr. Hutton's career as midwife practitioner, educator and clinical research scientist is dedicated to improving outcomes during pregnancy, birth and the neonatal period.



#### **YANN JOLY**

Dr. Joly is a distinguished and innovative academic working at the meeting place of science, law and ethics. He is a renowned expert in genetic discrimination and data sharing and he publishes frequently on these topics. Dr. Joly seeks to understand how scientific advancements in genetics and genomics can be encouraged while accounting for the important ethical, legal and social considerations that this research raises. Through his work he is helping to build a community for scientific research that is both innovative and ethical.



#### **LYNDON WILLIAM JONES**

A Professor of Optometry, Dr. Jones is a University Research Chair and Director of the Centre for Contact Lens Research at the University of Waterloo. An Optometrist and bio-materials scientist, Dr. Jones is also a Fellow, Diplomate and past Chair of Research at the American Academy of Optometry. His research is primarily focused on the interaction of novel and existing contact lens materials with the ocular environment and ocular drug delivery. He has authored 360+ peer reviewed and professional papers; one textbook and given 950+ invited lectures at conferences in 40 countries.



#### **JOEL D. KATZ**

A Professor of Psychology and Canada Research Chair in Health Psychology at York University, Dr. Katz is Director of the Pain Research Unit at the Toronto General Hospital and a Professor of Anesthesia at University of Toronto. His research focuses on risk and protective factors for chronic pain in children and adults. He has received many awards for research excellence, including the CPA Donald O. Hebb Award for Distinguished Contributions to Psychology as a Science. He has published 250+ peer-reviewed articles and book chapters and has presented his work at national and international conferences.





#### **GILLES J. LAVIGNE**

Dr. Lavigne is a dentist who holds a PhD and has received an honorary doctorate from the University Zurich, Switzerland. He is internationally recognized for his experimental and clinical research on sleep bruxism and on the interactions between sleep, pain and brain injury. He holds a Canada Research Chair in Pain, Sleep and Trauma. Dr. Lavigne previously held the positions of Dean of Dental Medicine at the Université de Montréal; President of the Canadian Sleep Society and Canadian Pain Society. He has also served as Director of the three research networks for Oral Health, Pain and Placebo Mechanisms funded by FRQS and CIHR.



#### **SUMIT R. MAJUMDAR**

Dr. Majumdar's research focuses on accelerating translation of research evidence into everyday practice with particular attention to helping the most vulnerable (e.g., elderly, multi-morbidity). He has developed and tested many knowledge translation interventions that are widely cited. He also works "at the coal face" to help NGOs, specialty societies, and health systems in Canada and elsewhere implement these interventions to improve the public's health. Indeed, as one of the founders of *KT Canada*, he has mentored scores of trainees and junior faculty while playing a key role in advancing knowledge translation science and for this he is recognized internationally.



#### **DARCY D. MARCINIUK**

Dr. Marciniuk is a Professor of Medicine, Respiriology, Critical Care and Sleep Medicine at the University of Saskatchewan where he is currently serving as Associate Vice-President for Research (Acting). An international leader in COPD, Dr. Marciniuk has dedicated his career to translating research findings to optimize patient care and benefit population lung health. His work has been instrumental in setting the standard of care throughout Canada and around the world. Dr. Marciniuk is a past President of the American College of Chest Physicians and a recipient of the *Founder's Award* from the Canadian Lung Association. .



#### **JEAN-YVES MASSON**

As a professor at University Laval and Director of the Molecular Biology, Medical Biochemistry and Pathology Departments - and a FRQS chercheur National - Dr. Masson has made seminal discoveries in the field of DNA repair such as the discovery of novel human genetic recombination proteins. He is the foremost expert on the biochemical functions of these enzymes, which have implications for CRISPR/Cas genome engineering, infertility, rare diseases, and cancer. He has developed novel therapeutic strategies to target breast/ovarian cancer cells using DNA repair inhibitors. Dr. Masson lectures extensively throughout North America and internationally and publishes in top ranked journals.



#### **PAUL WESLEY McDONALD**

Dr. McDonald has made outstanding contributions in Canada and globally to the inter-disciplinary fields of health studies and public health. His passion is to improve population health, knowledge translation and health system capacity. Without question, his most significant accomplishment is his role in combatting cigarette smoking and tobacco control – the single largest preventable cause of premature mortality in Canada and globally. He is a great example of a transformational leader committed to innovation that not only advances economic development, but also addresses the humanitarian, ecological and political factors relevant to achieving ‘health for all’ in the 21st century.



#### **ANNE-MARIE MES-MASSON**

Dr. Mes-Masson has pioneered model systems to study ovarian cancer based on human biological material and has contributed to bio-banking norms including ethics. She has made significant contributions in ovarian, prostate, breast and hereditary cancer research. Her leadership has provided strategic direction which has insured the success of several large oncology research programs. She is the Scientific Director of the Institut du cancer de Montréal and the FRQS-supported provincial Cancer Research Network. Her research has greatly advanced our understanding of ovarian cancer biology that is currently being translated into new clinical tools to diagnose, manage and treat this deadly disease.



#### **KELLY A. METCALFE**

A Professor of Nursing at the University of Toronto Bloomberg Faculty of Nursing, Dr. Metcalfe’s research focuses on the prevention and treatment of breast and ovarian cancer in high risk women, specifically those with a BRCA1 or BRCA2 genetic mutation. She is also exploring the role of newly identified mutations such as PALB2. In 2015, she was appointed the Bloomberg Professor of Genetics in recognition of her expertise. She has published widely. Seminal publications in the BMJ (2014) and JAMA Oncology (2015) have garnered international attention and led to changes in practice benefitting women with breast cancer.



#### **THOMAS WILLIAM NOSEWORTHY**

Dr. Noseworthy has dedicated himself to the health sciences through leadership, scholarship and public service. His research and influence have resulted in many pivotal contributions to health policy development in the areas of health and health care delivery. Within Alberta, he drove the creation of a new culture of integrated and ground-work evaluation in health care delivery. Nationally, amongst several achievements, he helped develop Canadian Doctors for Medicare to improve Canadian Medicare using health sciences evidence. For his outstanding contributions Dr. Noseworthy has received the *CIHR Barer-Flood Prize in Health Services Research and Policy* and the *Order of Canada*.



#### **SANTA JEREMY ONO**

Dr. Ono, is a Professor and the 15th President and Vice Chancellor of the University of British Columbia. He is a world-leading expert on ocular diseases. His seminal studies of the immune system and inflammation have defined mechanisms underlying age-related macular degeneration and other ocular diseases, and his translational discoveries contributed to early detection and treatment for the diseases. He has also made significant contributions to leading and reforming world-class education and research system as a leader of top-ranked universities and research institutions in USA and Canada.



#### **MADHUKAR PAI**

Dr. Pai is a Canada Research Chair in Epidemiology and Global Health at McGill University, where he serves as Director of McGill Global Health Programs. He is an internationally renowned expert in tuberculosis. He helped India eliminate inaccurate blood tests for TB, and create a market shaping intervention that has made good TB tests more affordable, reaching nearly 500,000 patients. He helped establish national and international standards for TB care and developed a novel approach for measuring TB care using simulated (mystery) patients. This approach is now widely used in India and is being adopted by China, Kenya and South Africa.



#### **MORAG PARK**

Dr. Park has contributed to our understanding of cancer by isolating a cell signalling protein called Met that helps control cell growth, survival and movement. She demonstrated that dysregulation in Met occurs in multiple cancers promoting tumor development. Dr. Park's research highlighted Met as a promising therapeutic target in cancer. Dr. Park has also expanded our understanding of the non-cancerous supportive cells that surround tumors; the tumor micro-environment. She has described how changes in the tumor's supportive cells can predict how women with breast cancer will fare in the clinic. This research also opened a new avenue for cancer therapy development.



#### **TERENCE M. PETERS**

Dr. Terry Peters is internationally renowned as one of the top scientists in the field of medical image computing and computer assisted intervention. As a Professor at Western University and scientist at the Robarts Research Institute he is one of the developers of the field of image-guided surgery and therapy. His research focuses on the development of tools to allow surgeons to make efficient use of images during surgical procedures. Innovative, real time, imaging combined with the use of minimally invasive surgical techniques can reduce risk to patients, improve outcomes and eliminate excessive recovery time required for traditional techniques.



#### **STUART MARTIN PHILLIPS**

Dr. Phillips is a highly productive, engaged and dedicated health scientist, with a truly exceptional teaching record both in academics and in effectively communicating the translation of research via oral, print, digital and social media to reach a spectrum of audiences including the public. His internationally recognized research program, focused on the impact of protein nutrition and resistive exercise on health outcomes, has contributed novel insights into functional and biological benefits of nutrition and exercise in weight management in overweight women, physical performance of athletes, mitigation of risk of type 2 diabetes, and sarcopenia of aging.



#### **PIERRE PLUYE**

Dr. Pluye is a Professor of Family Medicine at McGill University, FRQS Senior Research Scholar and Director for Method Development at the Quebec SPOR SUPPORT Unit (funded by the CIHR Strategy for Patient Oriented Research, the FRQS and the Quebec Ministry of Health). He has expertise in participatory research with health organizations, mixed methods research and systematic mixed studies reviews. He investigates the use and health outcomes of information derived from electronic knowledge resources (email delivery, information retrieval and social media) by clinicians (doctors, nurses and pharmacists), managers, patients, parents and the public.



#### **JONG M. RHO**

Dr. Rho has been a major figure in the emerging field of metabolism-based treatments for neurological disorders, and in particular, the ketogenic diet for medically intractable epilepsy. Through basic laboratory collaborations, his research has contributed significantly to our understanding of how special diets can provide protective and restorative effects in epileptic brain, as well as other disease states such as autism spectrum disorder. Further, Dr. Rho has played a leading international role in promoting and advancing knowledge and awareness of ketogenic therapies and has organized global symposia and conferences devoted to this rapidly growing area of translational neurosciences.



#### **RYAN E. RHODES**

Dr. Rhodes is a Professor in the School of Exercise Science, Physical and Health Education; Director of the Behavioral Medicine Laboratory and Associate Director of the Institute on Aging and Lifelong Health at the University of Victoria. His primary area of research is on the psychology of physical activity and sedentary behavior with an applied focus during early family development. Dr. Rhodes has held over 80 external grants for this research; contributed 252+ peer-reviewed publications on the topic and given 250 presentations. He has written 20 book chapters and an undergraduate textbook.





#### **JOHN FREDERICK RUDAN**

Dr. Rudan is the Director of Clinical Research at the Human Mobility Research Centre at Queen's University. An internationally recognized leader and innovator in orthopaedic surgery, he has co-invented commercialized technologies for computer-assisted surgeries, adopted worldwide and across several medical specializations. Nationally, he has served on expert panels and committees for the Royal College of Physicians and Surgeons, the Canadian Orthopaedic Association and Health Quality Ontario. He is credited with elevating HMRC's international status, developing a top-tiered research program and helping to establish the Southeastern Ontario Academic Medical Organization; important for governing the alignment of health research with excellent clinical practice.



#### **JANICE (JAN) MERRILL SARGEANT**

Dr. Sargeant is the founding Director of the Centre for Public Health and Zoonosis (CPHAZ) and a Professor in the Department of Population Medicine at the Ontario Veterinary College, University of Guelph. She is an international leader in promotion and analysis of systematic reviews and of RCTs in animal health, animal welfare and food safety. As Director of CPHAZ, she is centrally involved in promoting research and policy at the provincial, national and international levels relating to a wide range of infections which are acquired by people from animals. She is active in the University of Guelph's unique Master of Public Health program.



#### **DONALD SHEPPARD**

Dr. Sheppard is a clinician scientist and Director of the McGill University Division of Infectious Diseases. He is a world expert in the diagnosis and treatment of invasive fungal infections, most notably those caused by the mold aspergillus. He leads an integrated clinical and laboratory referral program for the management of fungal infections that is unique in Canada. He also leads a highly productive and innovative research program that probes the mechanisms underlying human fungal disease and has built upon his discoveries developing new diagnostic tools and therapies for these devastating infections.



#### **J. KEVIN SHOEMAKER**

Dr. Shoemaker's leadership in health-relevant research has been recognized with a Canada Research Chair as well as a Distinguished University Professor Award. Published broadly, his research focuses on the communication between the brain and the cardiovascular system through the autonomic nervous system, and the particular role that physical activity plays in long-term neural and vascular health. Currently, his research explores the co-morbid outcomes in brain vascular and neural health associated with heart disease, osteoarthritis, and brain trauma. Dr. Shoemaker's studies have exposed the vulnerability of the brain to many chronic conditions, but also its malleability in response to physical activity.



#### **JOHN C. SPENCE**

Dr. Spence is an internationally recognized scholar whose research examines influences on physical activity and sedentary behavior. Dedicated to getting Canadians more active, his work is relevant to chronic disease prevention and population health promotion. He has spent much of his career advocating for evidence-informed health public policy such as a national physical activity strategy and challenging the inherent inequities in tax credit programs for child fitness. Dr. Spence holds leadership positions at the University of Alberta and on Provincial and National Advisory Committees for organizations such as the Heart & Stroke Foundation of Canada and ParticipACTION.



#### **KELLI I. STAJDUHAR**

Dr. Stajduhar is Professor at the School of Nursing and Institute on Aging and Lifelong Health at the University of Victoria. A Canadian leader and advocate for quality care of the dying, her research is revolutionizing care for persons with chronic and life-limiting conditions, advocating for a palliative approach to care planning, and moving beyond traditional models focused on end-stage disease. Her research related to family caregiving in palliative care and with structurally vulnerable persons is internationally regarded as ground-breaking, exposing structural inequities and ideological assumptions that drive health care delivery. Author of 100+ publications in peer reviewed journals and books, and editor of two books, she presents provincially, nationally and internationally to diverse research, educational and public audiences.



#### **ROGER PETER STRASSER**

Dr. Strasser is one of the world's foremost authorities in rural, socially accountable medical education and has fundamentally shaped these fields. As founding Dean of the Northern Ontario School of Medicine, he led the development of the first new medical school in Canada in 40 years. Prior to moving to Northern Ontario in 2002, he was a Professor of Rural Health and Head of the Monash University School of Rural Health in Australia. He also had an international role with the World Organization of Family Doctors (WONCA) as Chair of the Working Party on Rural Practice (1992-2004).



#### **ANTHONY SZE-LEUNG TANG**

Dr. Tang is the Scientific Director and CEO of the Cardiac Arrhythmia Network of Canada (CANET); a network of Centres of Excellence established in 2015. He holds the Chair of Cardiovascular Population Health at the Schulich School of Medicine and Dentistry, Western University, and is a clinician at the London Health Sciences Centre. Dr. Tang is internationally recognized for his research in device and interventional therapy specific to cardiac arrhythmia associated with heart failure. His many mechanistic and clinical trial findings have resulted in wide clinical utilization of cardiac resynchronization therapy benefitting people around the world.

**BRETT D. THOMBS**

Dr. Thombs of the Lady Davis Institute, Jewish General Hospital and McGill University is recognized internationally for his groundbreaking work on depression screening, his research on bias in medical research conduct and reporting, and his work in rare diseases. He is the founder and Director of the Scleroderma Patient-centered Intervention Network (SPIN), which includes 100+ investigators, 40 recruiting sites in 8 countries, and almost 2000 patients. SPIN conducts large-scale trials of patient-oriented disease management tools in the rare disease scleroderma. Dr. Thombs is Chair-elect of the Canadian Task Force on Preventive Health Care.

**ROSS TADAO TSUYUKI**

Dr. Tsuyuki is internationally recognized for his pioneering work in Pharmacy Practice Research. He has relentlessly pursued the question whether increasing the scope of practice by Pharmacists, for instance to independently prescribe medications, can improve the effectiveness of therapy for common disorders in the broader community. Using randomized trials, he shows that pharmacists can indeed help manage common disorders like hypertension, diabetes and heart failure, improving care while simultaneously reducing costs. This groundbreaking work will transform the practice of Medicine and represents another first on the world stage for Canadian health care.

**DAVID ROBERT URBACH**

Dr. Urbach is a Professor of Surgery and Health Policy, Management and Evaluation at the University of Toronto and Surgeon-in-Chief at Women's College Hospital. His research career has focused on the evaluation of surgical procedures and health technologies. By studying health care interventions as if they were diseases, he has revolutionized the way we understand them, how useful these types of interventions are and how they should be delivered in Canada. His research has been published in prestigious journals such as NEJM and JAMA and he is a sought after Lecturer around the world.

**HAIBO ZHANG**

Dr. Zhang is the Chang-Jiang Scholar in Medicine, the Yangcheng Research Chair in Respiratory Medicine, and a Professor in the Departments of Anesthesia and Physiology and the Interdepartmental Division of Critical Care Medicine at the University of Toronto. He is an international expert in lung infection and immunity, lung repair and regeneration, who has significantly advanced the fields of ventilator-induced lung fibrosis, endotoxin signaling and stem cell treatment in lung injury and sepsis. He also leads the Canada-China Joint Research Centre for Respiratory Disease, a large and unique basic and clinical research program focusing on the mechanisms and therapy in epidemic respiratory diseases.

## FELLOWSHIP COMMITTEE

The committee has discussed over the last year ways in which the nomination process can be enhanced. The committee focused on two elements in particular: promoting nominations from the smaller discipline groups; and clarifying the nomination criteria to emphasize application and promotion of positive change. With respect to the former, the fellowship committee now seeks “external reviewers” in relevant disciplines to help review nominations from the smaller discipline groups. With respect to the latter, committee members look for demonstrated evidence of each of the five criteria, including leadership, and find it enormously helpful when nominators clearly articulate what a person has actually done in a role and provide specific evidence of achievement. Enhancements are planned to the *Guideline for Nominators* to encourage narrative that demonstrates exceptional scholarship beyond grants and publications and captures things like societal impact. Revisions are also planned to the *Call for Nominations* to broaden the wording and reflect a desire for candidates who sit at the application end of the research spectrum. Revised materials will be available in time for the release of the call for nominations at the end of December. The deadline for the submission of nominations is [Friday, March 9, 2018](#).

*Paul Allison, President-Elect and Committee Chair*

## NATIONAL FORUM

[BACK TO Headlines](#)

Co-chaired by CAHS Fellows Drs. John Conly & John Prescott, our 2017 Forum didn't disappoint.

*Strategies to control the antimicrobial resistance tsunami: Is Canada doing its part?* successfully brought together a stellar program of leading edge speakers and stimulated rich debate. Keynote presentations from Dr. Marc Sprenger, Director of the Antimicrobial Resistance Secretariat at the World Health Organization, and Dr. Siddika Mithani, President of the Public Health Agency of Canada, brought international and national perspectives that set the stage for important conversations that followed. Panel chairs and speakers comprised a carefully selected group of national thought leaders with specific expertise in antimicrobial resistance from all sectors of the health sciences. Collectively, they effectively articulated the magnitude of the problem and the pros and cons of solutions proposed world-wide.

Visit the [Past Fora](#) page of our website to see what you missed!

The Council of Canadian Academies (CCA) has been asked by the Minister of Science, on behalf of the Public Health Agency of Canada, with support from the Canadian Food Inspection Agency and the Canadian Institutes of Health Research, to examine the [current state of knowledge on the socio-economic impact of antimicrobial resistance \(AMR\) on Canadians and the Canadian health care system](#). The CAHS is a close collaborator in this assessment and Forum discussion was shaped to explicitly consider the AMR assessment project so as to advise and inform Panel deliberations.

Thursday evening was a time to honour two exceptional Fellows, Drs. Henry G. Friesen and John A. Cairns.



Dr. **Henry G. Friesen** was inducted as one of our select group of Distinguished Fellows - the Academy's highest award. In return he shared with us fascinating reflections and personal recollections of how research funding has evolved in Canada.





Dr. **John A. Cairns** was recognized for his contributions to the Academy. As he completed six years of superb leadership as President-elect, President, and Past-President the Academy reflected also on his past contributions as Chair of both the *Fellowship Committee* and the *Committee on Assessments*. No one could have served so diligently and effectively as John has done in his many roles over the years. The detailed and thoughtful documentation he has provided for each portfolio is of enormous value to the Academy in general but priceless for those stepping into those roles. John, has contributed significantly to the development and strength of the Canadian Academy of Health Sciences and we are profoundly grateful.

The Friday morning Lecture series honoured three exemplary Fellows who gave thought provoking talks based on up-to-the-minute science.



#### 2017 CAHS Scientific Lecture

[Martin T Schechter OBC, MD, PhD, FRSC, FCAHS](#), recipient of the 2017 CAHS Scientific Lecture, gave a stimulating and thought provoking address entitled *Heroin on Trial: Rethinking the treatment of opioid addiction*.



#### The CAHS Cy Frank Lecture and the University of Calgary Cy Frank Legacy Lectureship

We were honoured once again to host this joint presentation commemorating our esteemed colleague who contributed so much to the Academy and to health science in Canada.

[Thomas William Noseworthy CM, MD, FRCPC, FACP](#), recipient of both awards, spoke to *Innovation in healthcare: lines of sight to policy and practice*.



### The Paul Armstrong Lecture

[Jean Gray CM, MD, FCAHS](#) presented the Paul Armstrong Lecture and spoke to the *Promise and perils of contemporary therapeutics*.

Dr. **Paul Allison** was appointed President Elect at the Annual General Meeting. The choice of President-elect is of critical importance to our Academy. This individual makes a six year commitment to serve the Academy with two years as President-elect, two years as President and two years as past-President. These are all very much active roles. As well as being a member of the CAHS Board and Board Executive, the President-elect has a variety of assigned duties and the role of President carries substantial responsibilities as the overall leader of the Academy.

Finally, the Office of President was successfully transferred from Dr. **Carol Herbert** to Dr. **Linda Rabeneck**. Linda was voted President Elect in 2015 and is now the 7<sup>th</sup> President to serve the Academy. Working closely with Eleanor Fast, CAHS Executive Director, Linda will apply a laser beam focus to successfully build government relations and achieve financial stability over the next two years. Having completed hugely successfully terms as both President-Elect and President, we very much look forward to Carol applying her boundless energies to the role of Past-President. We are in excellent hands as we head in to 2018!

Hold these dates for future events:

- Thursday & Friday, September 13 & 14, 2018 - Marriott Pinnacle Downtown Hotel, Vancouver
- Thursday & Friday, September 19 & 20, 2019 - Fairmont Château Laurier, Ottawa

*Gavin C E Stuart, Chair, Standing Committee on Annual Meeting Planning*

*Henry Friesen,  
Distinguished  
Fellow, shares a  
history of  
research  
funding in  
Canada*





### **CAHS Past President's celebrate 150 of Confederation**

*L-R: Paul Armstrong; John Cairns;  
Tom Marrie; Catharine  
Whiteside; Carol Herbert; Martin  
Schechter*

## **STRATEGIC DIRECTIONS**

[BACK TO Headlines](#)

### **REGIONAL MEETING UPDATES**

*Regional meetings provide an opportunity to be connected to other Fellows and to the work of the Academy between annual general meetings. The Board is happy to note that there is now a small budget available (up to \$200 per region) to help with refreshments as needed. As a suggestion, regions with an established meeting structure might like to consider inviting "young scholars" as guests. Inviting the participation of graduate students, post-docs and/or younger faculty members will serve to increase their exposure to some of the top scientists in the health sciences in their region. Our regional networks function less as formal chapters of the Academy but rather informal forums intended to rally Fellows together, building relationships, incubating ideas and crafting assessment and forum topics. Regional networks also play an increasingly important role in helping to promote and disseminate the work of the Academy in the provinces and identifying worthy candidates for nomination of Fellowship.*

### **MONTREAL REGIONAL NETWORK**

In June 2017, the Montreal Chapter of the Canadian Academy of Engineering (CAE) organized an event to celebrate and discuss the building of the new Centre hospitalier de l'Université de Montréal (CHUM). In recent years both the McGill University Health Centre (MUHC) and the CHUM have undergone very significant change and development with the building of two new hospitals for each of Montreal's universities with medical schools. The new hospital for the MUHC was opened a couple of years ago and the new hospital for the CHUM will be formally opening for patients in October 2017.

In anticipation for this, the CAE organized an event to celebrate and discuss the building of the new hospital for the CHUM with a view to presenting the architectural and engineering challenges of such a project. Given the clear overlap in interest with the CAHS, the organizer of the event, Professor Yves Beauchamp, reached out to Quebec members of the CAHS to see if there would be any interest in inviting them. The result was a joint event held at the new hospital on the evening of June 15th. Following welcoming remarks made by Dr. Eric Meslin, President of the Canadian Council of Academies, presentations were made by Dr. Fabrice Brunet, President and Chief Executive Officer of CHUM, and Mr. Jacques Morency, Associate Director, Architecture, Engineering, Construction, Commissioning and Facility Management, and Director of planning and development of the new CHUM. Dr. Brunet presented the planning for the hospital from the perspective of patient care, while Mr. Morency presented the planning from the perspective of architectural and engineering challenges.

Among some of the most impressive engineering and construction challenges in the building of the new hospital has been its construction immediately adjacent to the old hospital St. Luc, most of which has and will remain functional as the new hospital has been built and becomes functional itself. Constructing a very large, multistory hospital immediately adjacent to a functioning hospital entails, amongst other things, dynamiting the ground and building the new hospital inches from the walls of a fully functioning hospital with its own operating rooms, emergency rooms and patient wards.

The presentations were followed by a question period and then a tour of some of the more interesting highlights of the new hospital, including the patient wards, the operating rooms and the "robotic centre". The new hospital has been built to house an army of "robotic chariots" to carry pretty much anything and everything (e.g. medicines, supplies, surgical instruments and specimens, but not patients) from place to place. Corridors in the new hospital

have been set up to permit robotic chariots moving on one side and people on the other side – don't worry, the chariots travel slowly and have sensors that stop them if there is any barrier, including a human, in front of them.

Following the tour, there were drinks and food and a couple of representatives of the architectural firm that designed the hospital talked about how they went through that process. They discussed the hospital design both in terms of its placement in Montreal, attempting to bring two parts of the city together, and in terms of the hospital's design to be as human and socially vibrant as possible, while being fully functional as a large hospital and teaching centre.

The evening was a fascinating insight into the planning and construction of a hospital, and something that most health professionals never or rarely have any opportunity to participate in. Thanks very much to the Montreal Chapter of the CAE for organizing this event and inviting Fellows of the CAHS.

### SASKATCHEWAN REGIONAL NETWORK

**Jay Kalra** and **Kishor Wasan** will host the 2<sup>nd</sup> Annual Saskatchewan Canadian Academy of Health Sciences Mini Symposium on November 8m 2017 in Saskatoon. We are honoured that Dr. **Catharine Whiteside** has agreed to join us as keynote speaker. Professor Emerita and Former Dean of Medicine at the University of Toronto, Catharine is the Executive Director of the SPOR Network in Diabetes and its Related Complications.



At this event we will formally induct structural biologist **Miroslaw Cygler** and respirologist **Darcy Marciniuk**, both at the College of Medicine, as new Fellows of the Academy as they were not able to attend the formal Induction Ceremony in Ottawa.

Saskatchewan-based CAHS Fellows have formally established their regional network and raised over \$10,000 for the group's activities. We want to thank the Council of Health Sciences, College of Pharmacy

and Nutrition and School of Public Health at the University of Saskatchewan for their support.

*Report submitted by Jay Kalra and Kishor Wasan*

If your region does not yet have a group and you'd like help to consider how to set one up, please let us know!

*Kishor Wasan, CAHS Secretary*

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### ASSESSMENT NEWS

The assessment report *Academic Recognition of Team Science: How to Optimize the Canadian Academic System* was released in June, 2017, and can be accessed at: <http://www.cahs-acss.ca/academic-recognition-of-team-science-how-to-optimize-the-canadian-academic-system/>. We are very grateful to Dr. Peter MacKinnon (President Emeritus, University of Saskatchewan) who chaired the panel and panel members: Drs. Stephen Bornstein (Director Newfoundland and Labrador Centre for Applied Research), Sarah Bowen (Adjunct Professor School of Epidemiology and Public Health, University of Ottawa), Holly Falk-Krzesinski (Vice-President, Strategic Alliances, Global Academic Relations, Elsevier), Sara Israels (Vice-Dean, Academic Affairs, Rady School of Medicine, University of Manitoba), Joanne Keselman (Provost and Vice-President [Academic], University of Manitoba), **Roderick McInnes** (Director, Lady David Institute, Jewish General Hospital, McGill), **Carol Richards** (Professor of Rehabilitation, Faculty of Medicine, Laval), **Lorne Tyrrell** (former Dean of Medicine, University of Alberta), and Peter Walker (former Dean of Medicine, University of Ottawa). Dr. **Dale Dauphinee** (McGill University) served as the peer review monitor and the peer reviewers were: Drs. **Alison Buchan** (Professor, Physiology, University of Toronto), Rama Nair (Vice-Dean, Professional Affairs, University of Ottawa), Anne Ridley (Professor of Cell Biology, King's College, London UK – and Chair of the British assessment panel on this same topic), Barbara Vickery (Chair, Department of Neurology, Icahn School of Medicine, Mt. Sinai, New York), and **Lori West** (Director, Alberta Transplant Institute, University of Alberta).

The report was commissioned by the Canadian Cancer Research Alliance who, together with Alberta Innovates – Health Solutions, the Canadian Institutes for Health Research, Fonds de recherche du Québec – Santé, the Michael Smith Foundation for Health Research, and the Nova Scotia Health Research Foundation, provided funding for this assessment. The report has been disseminated widely to the university and research communities and we hope all CAHS Fellows will read the report and serve as champions for the recommendations presented. Project management for this panel was kindly provided by the Council of Canadian Academies (CCA). Dr. MacKinnon



provided an overview of the report at the AGM in Ottawa on September 15.

The Committee on Assessments is continuing work on the development of several other assessments, including a joint assessment with CCA on the topic of Antimicrobial Resistance, the topic of this year’s Forum.

*Jean Gray, Chair, Committee on Assessments*

[BACK TO Headlines](#)

FELLOW SPOTLIGHT



Congratulations to Dr. **Anita E. Molzahn** on receipt of the Order of Canada for her influential research on quality of life in aging populations and for her administrative leadership in the field of nursing. Through her research, Anita has been involved with the World Health Organization to develop quality of life measurements that can be used across cultures.

Six Canadian medical heroes the Canadian Medical Hall of single meritorious of superior accomplishments. are role models of excellence world.



are inducted annually to Fame. Their work may be a contribution or a lifetime Pioneers in their field, they in health in Canada and the



Dr. Philip B. Berger, Toronto ON



Dr. B. Brett Finlay, Vancouver BC



Dr. **Vladimir Hachinski**, London ON



Dr. **Cheryl Rockman-Greenberg**, Winnipeg MB

## FELLOW NEWS



Congratulations to **Ali Rajput** who will be awarded an *Honorary Doctor of Science* at Fall Convocation on Saturday, October 28, 2017 by the University of Saskatchewan in recognition of lifelong contributions as one of the world's leading authorities on Parkinson's disease.



Congratulations are extended to Dr. **Chris Simpson** on receipt of Hotel Dieu Hospital and Kingston General Hospital's Medical Staff Association *Outstanding Clinician of the Year Award*. This award honours medical staff who demonstrate outstanding contributions to the medical community.

We also congratulate Chris on his appointment to the role of Acting Dean of Queen's University School of Medicine effective January to June 2018.

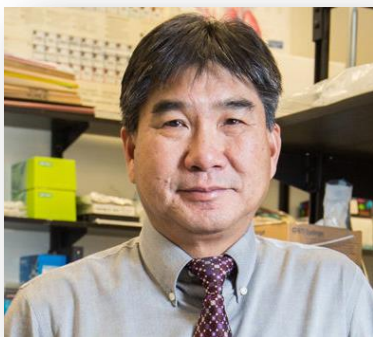


Congratulations to **Ingrid Sketris** on being named a *University Research Professor* at Dalhousie University. The honorary title, which has a five year term, recognizes Dr. Sketris' ability to conduct relevant and rigorous research to inform clinical practice and pharmaceutical policy.



Our sincere congratulations to CAHS past-Secretary, **Sally Thorne**. Lauded for her major contributions to nursing research that has shaped the face of qualitative research internationally, Dr. Thorne was Inducted into the 2017 [\*International Nurse Researcher Hall of Fame\*](#) on July 29, 2017 during the 28th International Nursing Research Congress in Dublin, Ireland.

In June, 2017, Dr. Thorne was also recognized at the Université Laval with a *Doctorat honoris causa en science infirmières* for her research with cancer patients.



Congratulations to **V. Wee Yong**, PhD, recipient of the [\*2017 J. Allyn Taylor International Prize in Medicine\*](#). Western University's Robarts Research Institute has been awarding the Taylor Prize to leading scientists since 1985 and recognizes the contributions of outstanding internationally recognized researchers. Yong is a world-leading multiple sclerosis (MS) researcher at the Cumming School of Medicine at the University of Calgary who has dedicated his career to understanding the disease and translating his findings in the lab into new treatments.

[BACK TO Headlines](#)

## IMPORTANT DATES

- **FRIDAY, MARCH 9, 2018 - CAHS FELLOW NOMINATION DEADLINE**
- **SEPTEMBER 13 & 14, 2018 - CAHS ANNUAL FORUM & GENERAL MEETING, MARRIOTT PINNACLE DOWNTOWN HOTEL, VANCOUVER**
- **SEPTEMBER 19 & 20, 2019 - CAHS ANNUAL FORUM & GENERAL MEETING, FAIRMONT CHÂTEAU LAURIER, OTTAWA**

[BACK TO Headlines](#)