Research Development Day 2018 Program

Thursday May 3, 2018 – Douglas Library, Room 1966

8:30 – 9:00  Arrival – Coffee and Tea

9:00 – 9:10 Welcome and Opening Remarks (Karina McInnis)

9:10 – 10:25 Session 1: A Research Plan for Funding Success

All researchers can encounter obstacles in seeing certain projects through, and in getting those projects funded. A well-crafted research plan aligning goals, interests, and enthusiasm with funding agency guidelines can be of proven help. Three Queen’s researchers whose planning and vision have led to funding and research success will introduce participants to strategies for writing a research plan that works.

Panelists: Drs. John Allingham (CRC in Structural Biology; Biomedical & Molecular Sciences), Yolande Chan (E. Marie Shantz Professor of Information Technology Management; Smith School of Business), and Cathy Crudden (CRC in Metal Organic Chemistry; Chemistry).

Moderator: Dr. Adrian Kelly (URS Research Projects Advisor, Faculty of Arts & Science).

10:25 – 10:45 Coffee and Conversation (light snack provided)

10:45 – 12:00 Session 2: Dynamic Partnerships with Government and Non-Government Organizations

This session will focus on providing guidance and advice for establishing and maintaining productive collaborations with government and not-for-profit organizations. The panel will discuss how to engage with partners, maintain collaborative relationships, and manage common challenges encountered along the way. The speakers have significant expertise collaborating with Indigenous communities and organizations, provincial regulatory agencies, data management entities, and civil society groups.

Panelists: Drs. Harriet Feilotter (Chief Scientific Officer, Indoc Research; Pathology & Molecular Medicine), Mark Green (Program Leader, Sustainable Engineering in Remote Areas; Civil Engineering), and David Lyon (Director Surveillance Studies Centre; Sociology).

Moderator: Diane Davies (URS Research Projects Advisor, Social Sciences & Humanities, and International).

12:00 – 1:00 Lunch (light lunch included)
1:00 – 2:30 Session 3: Dynamic Partnerships with Industry

Although industry partnerships are often an integral part of diverse research programs, many researchers find forming such partnerships challenging. This session will explore questions such as: What is the best way to approach potential partners? When and how should you discuss funding and intellectual property? How do expectations vary between industry and academia, and how can those expectations be managed? Drawing on the vast industry-academia collaborative experiences of three Queen’s faculty members and a representative from the industry sector, this session aims to provide a practical overview to building successful, long-lasting industry partnerships.

**Panelists:** Drs. Ahmad Ghahreman (Robert M. Buchanan Department of Mining), Marianna Kontopoulou (Chemical Engineering), and Martin Petkovich (Chief Scientific Officer, Opko Health; Biomedical & Molecular Sciences) from Queen's. Plus Dr. Mark Gallerneault (Director of Technology) from Alcereco.

**Moderator:** Dr. David Hyndman (Assistant Director, Industry Partnerships, Office of Partnerships and Innovation).

2:30 – 2:45 Coffee and Conversation (light snack provided)

2:45 – 4:15 Session 4: Tell Me Why This Matters – Enhancing Research Impact Through Effective Knowledge Translation

Funding agencies are increasingly focused on the idea of ‘research impact’ and translating research findings to groups outside of the academy. But what is ‘impactful’ research, and what are effective tools and strategies for knowledge mobilization? This session will help you develop your own knowledge translation strategies, provide suggestions for collaborating effectively with stakeholder organizations, and open a platform for learning from peers who have successfully enhanced their research beyond academia. The panelists all have experience building upon their research endeavors to create meaningful community engagement. Collectively, they have experience engaging with a variety of stakeholders including patients, physicians, professional organizations, not-for-profits, intergovernmental agencies, and the general public.

**Panelists:** Drs. Alice Hovorka (Director of the School of Environmental Studies; Geography and Planning), Paula James (Medical Director of the Inherited Bleeding Disorders Clinic of Southeastern Ontario; Medicine), Tony Noble (Director of the Canadian Particle Astrophysics Research Centre, CRC in Subatomic Physics and Particle Astrophysics; Physics), and Heather Stuart (Bell Canada Anti-Stigma Research Chair; Public Health Sciences).

**Moderator:** Kelly Cathcart (URS Research Projects Advisor, Faculty of Engineering & Applied Science).

4:15 – 4:30 Wrap-up
Speaker Biographies

Session 1: A Research Plan for Funding Success

Dr. John Allingham – As a Canada Research Chair in Structural Biology (2007-2016), Dr. Allingham distinguished himself as an original, world-class researcher of large, force-generating protein complexes that elicit shape changes, movement, and division of healthy cells, cancerous cells, and fungal pathogens. In these and other areas, Dr. Allingham has pushed boundaries and carved new paths for his research program, and for the professional and personal success of his students and research personnel.

Dr. Yolande Chan - Dr. Chan is E. Marie Shantz Professor of IT Management and Associate Dean (Research, PhD and MSc Programs) at Smith School of Business where the promotion of faculty and student research is one of her main priorities. Dr. Chan was also instrumental in advancing the Social Sciences and Humanities research priorities and themes emerging from the 2012 Queen's Strategic Research Plan while she held the role of Associate Vice-Principal (Research) from 2013-2016. She continues to serve as Queen’s SSHRC Leader. Dr. Chan’s research has garnered funding from a variety of sources, including SSHRC, ORDCF, ORNEC, and OMAFRA to name a few.

Dr. Cathy Crudden - As a Canada Research Chair in Metal Organic Chemistry Dr. Crudden’s work has received extensive national and international recognition, which has applications in Chemistry, Physics, Biology, Materials Engineering and Chemical Engineering. Her research has garnered tremendous support domestically and internationally through a variety of funding agencies and industrial partners such as NSERC, Astra Zeneca, Toyota Central Research (Japan), ABB (Switzerland) and BASF (Germany), among others. She is one of 4 international researchers at the Institute for Transformative Bio-Molecules in Nagoya Japan where she runs a satellite lab funded by the Japanese government.

Session 2: Dynamic Partnerships with Government and Non-Government Organizations

Dr. Harriet Feilotter - Dr. Feilotter is Director of the Queen’s Genomics Facility. As Clinical Chief of Laboratory Genetics at Kingston Health Sciences Centre, Dr. Feilotter interacts with government bodies such as Cancer Care Ontario. She is also Chief Scientific Officer at Indoc Research, a non-for-profit data management company that assists medical researchers in analyzing and sharing their complex data.

Dr. Mark Green - Dr. Green is a leader in applications of fibre reinforced polymer (FRP) materials to concrete structures including durability applications of FRPs in cold regions. He is currently leading an innovative NSERC CREATE research and training program on Sustainable Engineering in Remote Areas (SERA). Dr. Green is actively working to improve relations between Indigenous and non-Indigenous communities through his engineering research and support of Indigenous education.

Dr. David Lyon - Dr. Lyon is Director of the Surveillance Studies Centre and Professor of Sociology and Professor of Law at Queen’s University. He is credited with spearheading the field of “Surveillance Studies”. As Project Director of ‘Big Data Surveillance’, a $2.5 million partnership grant funded by SSHRC, Dr. Lyon collaborates with nine partner organizations from both the non-profit and academic sectors.
Session 3: Dynamic Partnerships with Industry

Dr. Ahmad Ghahreman – Assistant Professor in the Robert M. Buchan Department of Mining, Dr. Ghahreman has been actively involved in projects with several Canadian, US and international mining companies including Barrick Gold Corp and Goldcorp Inc. His expertise includes development of effective processes for sustainable and environmentally responsible extraction of metals from minerals.

Dr. Marianna Kontopoulou - Dr. Kontopoulou is Professor and the Associate Head of the Department of Chemical Engineering. She leads an internationally-recognized research group in advanced polymer technologies, including multiphase polymeric materials and processes, composites and bioplastics. Her lab currently focuses on sustainable solutions in the plastic industry, conductive polymer nanocomposites, and material development for additive manufacturing. She will bring her perspective on partnerships in a wide array of industries, such as polymers, bioplastics, manufacturing, and mining.

Dr. Marty Petkovich - Dr. Petkovich is a Professor in the Department of Biomedical & Molecular Sciences and Cancer Research Institute. His lab group is currently developing therapeutic agents that can modify vitamin A & D signaling in a variety of health conditions such as cardiovascular disease, skin disease and cancer. He was a Co-Founder of Cytochroma Inc., is currently the Chief Scientific Officer of Opko Health, and will bring his perspective on industry partnerships in the health sector to this session.

Dr. Mark Gallerneault – Dr. Gallerneault holds a PhD in Materials and Metallurgical Engineering and is a registered engineer in the province of Ontario. Previous work included progressively senior roles at Alcan International Ltd. and then at Novelis here in Kingston until their departure in 2013. At that time Mark co-founded Alcereco, a specialty aluminum materials company focused on non-traditional alloys and process development. Mark has had extensive interactions with Canadian, American and European Academic and Government organizations and has developed many successful academic partnerships through leveraged funding programs. Mark will bring his extensive experience of what industry looks for in an academic collaboration to the panel discussion.
Session 4: Tell Me Why This Matters – Enhancing Research Impact Through Effective Knowledge Translation

**Dr. Alice J. Hovorka** – Dr. Hovorka is Professor in the Department of Geography and Planning, and Director of the School of Environmental Studies. Dr. Hovorka leads the SSHRC-funded Lives of Animals Research Group which offers interdisciplinary and action-oriented approaches to studying human-animal relations in Botswana and Canada. She is committed to knowledge mobilization through community-engaged scholarship and policy-relevant research. Her efforts have facilitated the launch of the Botswana National (Peri-)Urban Agriculture Policy, informed gender mainstreaming at the Botswana Citizen Entrepreneurial Development Agency and Canada’s International Development Research Centre, and championed animal welfare efforts through community-based organizations in northern Botswana.

**Dr. Paula James** - Dr. James is a Professor & Hematologist in the Department of Medicine. Dr. James' internationally-recognized research program takes a “bench-to-beside-to-bench” perspective, translating basic science research of inherited bleeding disorders into clinically useful data, and using clinical interactions to inform her research agenda. She is the Medical Director of the Inherited Bleeding Disorders Clinic of Southeastern Ontario and the Clinical Co-Chair of the VWD Guideline of the American Society of Hematology.

**Dr. Tony Noble** – Dr. Tony Noble is a professor of physics and Canada Research Chair in Particle Astrophysics (2002-2012). He was an Associate Director for the SNO experiment that won the 2016 Breakthrough Prize, and for which the Nobel prize in Physics was awarded to Dr. Arthur B. McDonald in 2015. He is currently leading the PICO Dark Matter search experiment at SNOLAB. Dr. Noble is also the Director of the Canadian Particle Astrophysics Research Center, CPARC, a center whose goals are to maintain Canada's position as a world leader in particle astrophysics, delivering a world class science program, forging new collaborations, effectively engaging industry, and creating an enviable program of HQP training and outreach.

**Dr. Heather Stuart** – Dr. Stuart is a Professor in the Department of Public Health Sciences and the Bell Mental Health Anti-Stigma Research Chair. Dr. Stuart’s internationally-renowned multi-disciplinary research program focuses on mental health services, with a specific focus on the stigmatization of mental illness. She has worked with international agencies such as the World Health Organization, the Pan American Health Organization, and the World Psychiatric Association.