

## Senate Research Report

March 21, 2017

## <u>News</u>

Two Queen's faculty members – Dr. Vicki Friesen (Biology) and Dr. Philip Jessop (Chemistry) – have received three-year grants from the Natural Sciences and Engineering Research Council (NSERC) <u>Strategic Partnership Grants</u> for Programs. Dr. Friesen's project will study the effects of climate change on seabirds in the Arctic, and Dr. Jessop's project will develop a new water purification system.

Queen's students Yuliya Nesterova and Sterling Mitchell have been shortlisted in <u>NSERC's</u> <u>"Science, Action" contest</u>. Contestants had to create one-minute online videos discussing their research.

The <u>Canadian Frailty Network</u> has received renewal funding of \$23.9M from the Networks of Centres of Excellence. An echo announcement was hosted at Queen's by MP Mark Gerretsen on March 3, 2017.

A gift of \$5M from entrepreneur and geologist Ross J. Beaty will support the newly-named <u>Beaty Water Research Centre</u> in maintaining permanent facilities in the Queen's Innovation and Wellness Centre and other research and education initiatives.

On March 1, the School of Graduate Studies hosted the Big Data PechaKucha Research Showcase at the University Club as part of the Big Data 175 series being run by the Surveillance Studies Centre.

Researcher	Department	Project Title	Amount	
Canada Foundation for Innovation – John R. Evans Leaders Fund				
Braun, Alexander	Geological Sciences & Geological Engineering	Reservoir monitoring using superconducting gravimetry	\$180,000	
Davies, Theresa	Mechanical and Materials Engineering	Building and designing assistive technology	\$125,000	

## Research Funding

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Gallivan, Jason	Biomedical and	Neural mechanisms	\$150,000		
	Molecular Sciences	underlying cognitive			
		transformations for human			
		goal-directed action			
Johri, Amer, with P.	Medicine	The Precision Imaging	\$120,000		
Mousavi		Program: Advanced			
		computational methods for			
		quantification of			
		cardiovascular disease			
Martin, Ryan	Physics, Engineering	Germanium detectors to	\$250,000		
	Physics and	understand neutrinos and			
	Astronomy	dark matter			
Monaghan,	Biology	State-of-the-art signal	\$125,641		
Jacqueline		transduction and molecular			
		biology laboratory			
Natural Sciences and Engineering Research Council of Canada – Collaborative Research and					
Development Grant	0 0				
Liu, Yan-Fei	Electrical and	Technology development for	\$144,000		
	Computer	48V input voltage regulator			
	Engineering	for next generation data			
		center power systems			
Rowe, Kerry	Civil Engineering	Tailing migration though	\$39,490		
		geomembrane holes			
Retina Foundation of Canada – Junior Clinical Research Grant					
Rullo, Jacob	Ophthalmology	Tachyphylaxis in	\$5,000		
		Neovascular Diseases of the			
		Eye: Intraocular immune			
		activation to intravitreal anti-			
		VEGE			