Research News and Updates

• **Weatherhaven**, provider of re-deployable shelter systems, committed $500,000 to SFU's scientific expertise and resources, providing students with the opportunity for hands-on experience in developing next-generation technologies in engineering and materials sciences. [See SFU News story:](www.sfu.ca/sfunews/stories/2017/07/sfu-weatherhaven-collaboration-taps-sfu-r-d-develops-students-job-skills.html)

• SFU health sciences professor and **Canada Research Chair, Angela Kaida**, wants to help form health policies and programs to support HIV-affected women in their reproductive desires and sexual well-being. [See SFU News story:](www.sfu.ca/sfunews/stories/2017/07/improving-the-sexual-and-reproductive-health-of-people-living-with-hiv.html)

• SFU polymer chemist and newly appointed **Canada Research Chair, Steven Holdcroft**, receives major funding boost for next-generation of hydrogen fuel cell and water electrolyser. [See SFU News story:](www.sfu.ca/sfunews/stories/2017/07/new-canada-research-chair-at-sfu-boosts-funding-for-energy-conve.html)

• SFU professor **Carlo Menon**, a newly named **Canada Research Chair** in Biomedical Technology, is developing wearable technologies to help stroke patients who have lost hand mobility. [See SFU News story:](www.sfu.ca/sfunews/stories/2017/06/researchers-developing-wearable-tech-for-stroke-patients.html)

• Newly appointed **Canada Research Chair** and SFU archaeology professor **Mike Richards** is studying how the chemical signatures from food and water consumed by humans and animals can provide clues to identifying human remains—and can also shed light on changes in climate. [See SFU News story:](www.sfu.ca/sfunews/stories/2017/06/how-chemical-_clues-can-help-identify-human-remains--and-changes.html)

• **Adam Vaughan**, PhD Candidate in SFU's School of Criminology, becomes one of two researchers awarded a Health Policy Fellowship by **Michael Smith Foundation for Health Research**. [See SFU News story:](www.sfu.ca/sfunews/stories/2017/08/adam-vaughan-awarded-msfhr-health-policy-fellowship-mental-health-opioid-addiction.html)

Research Grant Successes

• Three SFU proposals were successful in collectively securing over $300K from CFI as part of the **John R. Evan's Leaders Fund (JELF)**. These awards, which
will be matched by the **BC Knowledge Development Fund** and contributions from partners, are estimated at a value of over **$740,000**. These are:

- **The Robotic Platform for Accelerated Chemical Biology**. David Vocadlo and Roger Linington from Chemistry.
- **Facility for Advanced Power Conversion and Energy Applications Research**. Jason Wang from Mechatronics Systems Engineering.
- **Building the Language Learning and Development Lab**. Henny Yeung from Linguistics.

- SFU has registered six applications with the prestigious **Canada 150 Research Chairs Program**, as part of an opportunity to recruit outstanding international researchers and Canadian expatriates to Canada. The program, which is highly competitive, expects to fund between 15 – 35 Chairs nationwide. We are currently developing six proposals, which will be submitted on September 15, 2017. Results of the competition are expected in December 2017.

### Research Awards & Honours

- Two SFU faculty members will be inducted as **Royal Society of Canada (RSC) Fellows** this November 24 at the RSC’s annual general meeting in Winnipeg.
  - **Nicholas Blomley, Department of Geography, Faculty of Environment**
    
    Professor Blomley is recognized as a leading founder of the interdisciplinary field of legal geography. For over 30 years, he has persuasively argued for the need to engage with the law-space nexus, particularly when analyzing the meaning and practice of property in land. His work reveals how property is implicated in socio-spatial relations of power, subordination and resistance.
  
  - **John Harriss, School of International Studies, Faculty of Arts and Social Sciences**

    John Harriss is a leading authority on the politics of development, and on politics, society and economic change in India. His work both on caste and agrarian change in India, and on regime types and poverty alleviation, has been seminal. His interdisciplinary research speaks to the power relations upon which institutions are founded, to the concepts of social capital and civic engagement, and to the discourse on development and democracy.

- **Nathalie Sinclair** of the Faculty of Education has been elected as a member of the 2017 cohort of the **RSC’s College of New Scholars, Artists and Scientists**. The College recognizes the emerging generation of leaders within 15 years of their PhD, and her membership will be valid for a period of seven years. Nathalie, a Canada Research Chair in Tangible Mathematics Learning, is fascinated by the potential of technology to bring mathematics to vibrant life and transform how teachers and learners approach the subject. Her research on the use of digital
tools in mathematics teaching and learning, particularly dynamic geometry environments, enables children to engage with mathematics concepts in tangible ways that facilitate deeper understanding.

- Computing science professor Jian Pei has received the 2017 SIGKDD Innovation Award from the Association for Computing Machinery (ACM), the highest award for technical excellence in the field of Knowledge Discovery and Data Mining. Pei is recognized for his seminal contributions to the field, particularly in the areas of pattern mining and spatial data mining.

**SFU Innovates Updates**

- **SFU Venture Labs®** and **SFU Innovates** had a booth at StartupFest, ScaleupFest and AcceleratorFest 2017 in Montreal on July 12-16, 2017. This global conference on best practices for Accelerator organizations had over 2000 attendees from across Canada and around the world. New contacts were established with startup companies, entrepreneurs, and angel and venture capital organizations interested in our programs.

- SFU’s commitment to social innovation leadership has been recognized with its designation as an Ashoka U Changemaker Campus. SFU is one of just over 40 global institutions to pass this rigorous process, and is the first university in British Columbia to be designated. The Ashoka U Changemaker Campus Network is a dynamic, global network of leading colleges and universities committed to advancing social innovation and changemaking across their institutions and beyond. From curriculum and research, to operations and community engagement, these colleges and universities set the bar for social innovation education and action. As a member of this network, SFU will contribute to the growing body of work and best practices in social innovation education and research. Read more on the President’s blog: [http://get.sfu.ca/aKlu](http://get.sfu.ca/aKlu)

**KEY, SFU’s Big Data Initiative Updates**

- **Student Support:** KEY, SFU’s Big Data Initiative is creating invaluable opportunities for students to receive hands-on experience with data.
  - The **KEY Graduate Scholarship** enables Masters and PhD students to incorporate big data approaches, tools and analysis into their research. Earlier this summer, KEY launched the inaugural scholarship competition. Of the 120 applicants, 16 students were awarded this scholarship valued at $6500 each. The majority of these recipients were from non-traditional fields, including English, Psychology and Business Administration, and were students pivoting to using big data in their research for the first time.
  - **KEY** is engaging undergraduate students in big data. This year, KEY funded 20 Undergraduate Student Research Awards (USRAs) valued
at $4500. The KEY USRAs enable students from across the disciplines to engage in a major data-intensive research project with a faculty member. SFU is excited to enable these students to engage in data-intensive and computationally-driven research in their field, and intends to offer the awards again each semester.

- **The Data Visionaries Series Presented by KEY, SFU's Big Data Initiative:** This fall we are launching a series of conversations with data visionaries from SFU and beyond, as we explore and critically examine the possibilities and real world impact of data in our future. September’s line up—featuring leaders from across domains and disciplines—includes Juliette Powell, Constance Crompton and John Dill. See the full list of speakers on the KEY event page: [www.sfu.ca/key/events/data-visionaries-series](http://www.sfu.ca/key/events/data-visionaries-series)