

SENATE SUMMARY MEETING OF NOVEMBER 5, 2018

1. Report of the Chair

The Vice-Chair noted the regrets of the Chair, who is leading a mission to Hong Kong, Korea, and Taiwan.

The Vice-Chair reported that SFU has again been named Canada's top comprehensive university in Maclean's annual rankings. This is the 10th time in 11 years that SFU has been named top comprehensive university, a category that includes post-secondary institutions that have a significant amount of research, a wide range of programs at the undergraduate and graduate level, and professional degrees. SFU also placed 6th amongst 15 comprehensive universities for student satisfaction, and ranked 9th amongst all Canadian universities in the national reputational ranking.

The Vice-Chair reported on recent research grant successes:

- Yuezhi Zhao from the School of Communication will receive \$1.4 million over seven-year period from the *Canada Research Chairs* program in *Political Economy of Global Communication*, Tier 1 Renewal.
- Sharon Gorski from the department of Molecular Biology and Biochemistry has been awarded a project grant of \$956,250 from the *Canadian Institutes of Health Research (CIHR)* for her project *Investigating the relationship between HER2 and ATG4B in cancer*.
- Zabrina Brumme from the Faculty of Health Sciences has been awarded a project grant of \$761,176 from *CIHR* for her project *Integrated Phylogenetic, Molecular and Functional Analyses of the Within-Host Latent HIV Reservoir*.
- Fiona Brinkman from the Department of Molecular Biology and Biochemistry has been awarded a team grant of \$900,000 from *CIHR* for her project *Common Infrastructure for National Cohorts in Europe, Canada, and Africa*.
- Felix Breden from the Department of Biological Sciences has been awarded a team grant of \$99,800 from *CIHR* for his project *A Scalable Platform for the Integration of Disrupted Repositories of Antibody and T-cell Receptor Sequence Data*.
- Lynne Quarmby from the Department of Molecular Biology and Biochemistry has been awarded \$117,271 from *Genome British Columbia* for her project *Understanding the Algal Microbiomes Living on Alpine Snowfields in South-Western British Columbia*.
- Steven Holdcroft from the Department of Chemistry has been awarded \$465,000 from the *Natural Science Engineering Research Council (NSERC)*, plus \$290,625 FROM *Ionomer Innovations INC.*, for his project *Flexcoat – Flexible Coating with Inline QC for Customized Production of Hydrocarbon Membranes for Next-Generation Electrochemical Devices*.

- Michael Adachi from the School of Engineering Science has been awarded \$360,000 from *NSERC* for his project *Fabrication of High Flexibility High Conversion Efficiency Heterojunction Si Solar Cells*.
- Frank Gobas from the School of Resource and Environmental Management has been awarded \$304,825 from *NSERC* for his project *Wetland Treatment of Oil Sands Process Water*.
- Majid Bahrami from the School of Mechatronic Systems Engineering has been awarded \$125,000 from *NSERC* for his project *Development of Waste-Heat Driven Sorption Air Conditioner*.
- Oliver Schulte from the School of Computing Science has been awarded \$570,633 from *NSERC* for his project *Reinforcement, Learning and Sport Analytics*.
- Carlo Menon from the School of Engineering Science has been awarded \$505,823 from *NSERC* for his project *Seamless Interaction*.
- Byron Gates from the Department of Chemistry has been awarded \$106,000 from *WorkSafeBC's Innovation at Work* program for his project *Detection Kits with Enhanced Sensitivity for Heavy Metal Contaminants in the Workplace*.

The Vice-Chair reported on recent research awards and honours:

- Faculty of Health Sciences Dean Tania Bubela has joined the ranks of the *Canadian Academy of Health Sciences*, one of the highest honours in Canada's academic community.
- Mathematics professor and Tier 1 *Canada Research Chair* Bojan Mohar has received the *Royal Society of Canada's John L. Synge Award* in recognition of his transformative research in topological graph theory. Earlier this year, he was elected a *Fellow of the Society of Industrial and Applied Mathematics*.

The Vice-Chair reported on SFU Innovates updates:

- *Innovate BC* awarded \$841,500 to accelerate four SFU research projects (including projects led by Steven Holdcroft & Majid Bahrai).
- SFU's *VentureLabs* has been recognized as the top North American university-linked accelerator by *UBI Global*.
- The *Surrey City Lab*, a partnership between SFU and *Kwantlen Polytechnic University (KPU)*, made its debut this September under the umbrella of the SFU Change Lab Program.
- SFU Director of Entrepreneurship Sarah Lubik has been named one of six innovation experts leading the Government of Canada's recently launched national consultation on digital and data transformation.

The Vice-Chair reported that SFU recently became the first Canadian institution to join the *University Social Responsibility Network*. VP Research and International Joy Johnson will speak at the *USRN Annual Summit* at the *University of Haifa* in Israel in December.

The Vice-Chair reported on recent events:

- SFU hosted its annual Diwali Gala at the *Aria Banquet Hall* in Surrey on November 1st.
- Fall Convocation ceremonies took place in early October with honorary degrees bestowed upon primatologist Jane Goodall and psychology professor Alison Gopnick. Lieutenant Governor Janet Austin attended and spoke at the ceremony honouring Jane Goodall.
- SFU and UBC held a special joint convocation ceremony on October 19th at which each conferred an honorary Doctor of Laws degree on His Highness the Aga Khan in recognition of His Highness's lifelong philanthropic and humanitarian contributions.

2. Revised Terms of Reference for Senate Committee on Undergraduate Studies (SCUS) (S.18-100)

Senate approved revisions to the Senate Committee on Undergraduate Studies' (SCUS) Terms of Reference.

3. Senate Committee on Continuing Studies (SCCS) Annual Report (S.18-101)

Senate received the Senate Committee on Continuing Studies (SCCS) Annual Report 2017-2018 for information.

4. External Review of the Department of Biomedical Physiology and Kinesiology (S.18-102)

Senate approved the Action Plan for the Department of Biomedical Physiology and Kinesiology that resulted from its External Review.

5. Full Program Proposal for the Master of Applied Science in Sustainable Energy Engineering (S.18-103)

Senate approved and recommended to the Board of Governors the full program proposal for the Master of Applied Science in Sustainable Energy Engineering within the Faculty of Applied Sciences, effective Fall 2019.

- Course (new): SEE 820, 821, 850, 891, 893, 894, 895, 896, 898

6. Full Program Proposal for the Doctor of Philosophy in Sustainable Energy Engineering (S.18-104)

Senate approved and recommended to the Board of Governors the full program proposal for the Doctor of Philosophy in Sustainable Energy Engineering within the Faculty of Applied Sciences, effective Fall 2019.

- Course (new): SEE 890, 897, 899

- 7. Full Program Proposal for the Master of Engineering in Mechatronic Product Realization (S.18-105)**

Senate approved and recommended to the Board of Governors the full program proposal for the Master of Engineering in Mechatronic Product Realization within the Faculty of Applied Sciences, effective Fall 2019.

 - Course (new): MSE 794, 901
 - Course (title, prerequisite): MSE 793

- 8. Full Program Proposal for the Master of Arts in Heritage Resource Management (S.18-106)**

Senate approved and recommended to the Board of Governors the full program proposal for the Master of Arts in Heritage Resource Management within the Faculty of Environment, effective Fall 2019.

- 9. Full Program Proposal for the Graduate Certificate in Heritage Resource Management (S.18-107)**

Senate approved and recommended to the Board of Governors the full program proposal for the Graduate Certificate in Heritage Resource Management within the Faculty of Environment, effective Fall 2019.

- 10. Undergraduate Program Changes (S.18-108)**

Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following program changes, effective Summer 2019:

 - i) Faculty of Applied Sciences**
 - a) Sustainable Energy Engineering**
 - Program: Sustainable Energy Engineering Major (effective Fall 2019)

 - ii) Beedie School of Business**
 - Program: Certificate in Innovation & Entrepreneurship
 - Program: Renaming and moving admission sections of the calendar
 - Program: Changes to course access for non-majors
 - Program: Business Major

 - iii) Faculty of Communication, Art and Technology**
 - a) School of Interactive Arts and Technology**
 - Program: Interactive Arts and Technology Major BA
 - Program: Interactive Arts and Technology Honours BA
 - Program: Interactive Arts and Technology Major BSc
 - Program: Interactive Arts and Technology Honours BSc

iv) Faculty of Health Sciences

- Program: Philosophy and Health Sciences Joint Major
- Program: Health Sciences Major BA
- Program: Health Sciences Honours BA
- Program: Health Sciences Major BSc
- Program: Health Sciences Honours BSc

v) Faculty of Science

a) Molecular Biology and Biochemistry

- Program: Molecular Biology and Biochemistry Major
- Program: Molecular Biology and Biochemistry Honours
- Program: Molecular Biology and Biochemistry Major (effective Fall 2019)
- Program: Molecular Biology and Biochemistry Honours (effective Fall 2019)
- Program: Molecular Biology and Biochemistry Minor
- Program: Molecular Biology and Biochemistry Minor (effective Fall 2019)

11. Undergraduate New Course Proposals (S.18-109)

Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following new course proposals, effective Summer 2019:

i) Beedie School of Business

- Course (new): BUS 415 (effective Summer 2019)

ii) Faculty of Health Sciences

- Course (new): HSCI 496

12. Undergraduate Course Changes (S.18-110)

Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following course changes, effective Summer 2019:

i) Faculty of Applied Sciences

a) School of Mechatronic Systems Engineering

- Course (repeat): MSE 211
- Course (prerequisite): MSE 220, 312, 411, 450
- Course (equivalency, prerequisite): MSE 410
- Course (title): MSE 425

ii) Beedie School of Business

- Course (description): BUS 425
- Course (prerequisite): BUS 217W, 345, 360W, 362, 401, 437, 439, 440, 445, 470

iii) Faculty of Communication, Art and Technology

a) School of Communication

- Course (description): CMNS 496

b) School of Interactive Arts and Technology

- Course (description): IAT 375

iv) Faculty of Education

- Course (equivalency): EDUC 382
- Course (equivalency, prerequisite): EDUC 441

v) Faculty of Health Sciences

- Course (equivalency): HSCI 460
- Course (description): HSCI 452

vi) Faculty of Science

a) Biomedical Physiology and Kinesiology

- Course (prerequisite): BPK 307 (effective Spring 2019)

b) Molecular Biology and Biochemistry

- Course (description): MBB 302 (effective Fall 2019)
- Course (prerequisite): MBB 342, 432

c) Statistics and Actuarial Science

- Course (prerequisite): STAT 430 (effective Fall 2019)

13. Undergraduate Program Changes (S.18-111)

Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following program changes, effective Summer 2019:

i) Beedie School of Business

- Program: Business Technology Management Certificate
- Program: Corporate Environmental and Social Sustainability Certificate
- Program: Business and Economics Joint Major
- Program: Business Major

- Program: Innovation and Entrepreneurship Certificate
- Program: International Experiential Learning Certificate
- Program: Mechatronic Systems Engineering and Business Double Degree
- Program: Business and Communication Joint Major
- Program: Business and Geography Joint Major
- Program: Interactive Arts and Technology and Business Joint Major (BA or BBA)
- Program: Interactive Arts and Technology and Business Joint Major (BSc)
- Program: Molecular Biology and Biochemistry and Business Joint Major
- Program: Business and Psychology Joint Major
- Program: Molecular Biology and Biochemistry and Business Administration Joint Honours
- Program: Information Systems in Business Administration and Computing Science Joint Major
- Program: Sustainable Business Joint Major
- Program: Business and Economics Joint Honours
- Program: Business Honours

14. New Course Proposals (S.18-112)

Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following new course proposals, effective Summer 2019:

i) Beedie School of Business

- Course (new): BUS 415 (effective Summer 2019)

ii) Faculty of Science

- Course (new): SCI 192 (effective Fall 2019)

a) Biological Sciences

- Course (new): BISC 212

15. Undergraduate Course Changes (S.18-113)

Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following course changes, effective Summer 2019:

i) Beedie School of Business

- Course (equivalency, acronym, prerequisite): BUEC 232 (effective Fall 2019)
- Course (prerequisite): BUS 330, 331, 339

- ii) **Faculty of Science**
 - a) **Statistics and Actuarial Science**
 - Course (description): ACMA 438
 - Course (description): STAT 438
 - b) **Biological Sciences**
 - Course (description): BISC 446
 - c) **Biomedical Physiology and Kinesiology**
 - Course (description): BPK 453
 - d) **Chemistry**
 - Course (description): CHEM 408
 - e) **Mathematics**
 - Course (description): MATH 486
 - f) **Molecular Biology and Biochemistry**
 - Course (description): MBB 452
 - g) **Physics**
 - Course (description): PHYS 437
- 16. **Graduate Program Changes (S.18-114)**

Senate received information that the Senate Graduate Studies Committee, acting under delegated authority, approved the following program change, effective Spring 2019:

 - i) **Beedie School of Business**
 - Program: Management of Technology MBA
- 17. **CSAR Master of Science in Accounting with Cognitive Analytics (S.18-115)**

Senate received information that the Senate Graduate Studies Committee, acting under delegated authority, approved the Cohort Special Arrangements proposal for Master of Science in Accounting with Cognitive Analytics in the Beedie School of Business.

 - Course (new): BUS 830, 831, 832, 838, 839, 840, 841, 842, 844, 845, 846
- 18. **CSAR Graduate Certificate in Accounting with Digital Analytics (S.18-116)**

Senate received information that the Senate Graduate Studies Committee, acting under delegated authority, approved the Cohort Special Arrangements proposal for Graduate Certificate in Accounting with Digital Analytics in the Beedie School of Business.

- Course (new): BUS 830, 831, 832, 838, 839

19. Senate Committee Elections (S.18-117 Revised)

Senate received a summary of the nominations, positions elected by acclamation, positions requiring an online vote, and outstanding vacancies for the Senate committees.

The approved Senate minutes will be available online following the December Senate meeting. For more detailed information on each Senate item, please refer to the November 2018 Senate documents <https://docushare.sfu.ca/dsweb/View/Collection-33226>

If you have any questions regarding this summary, please contact Steven Noel, Senate Assistant, at 778-782-3168 or senate@sfu.ca.