SENATE SUMMARY
MEETING OF SEPTEMBER 11, 2017

1. Report of the Chair

The Chair, on behalf of Senate, welcomed the following new Senators:

- Wade Parkhouse, Associate Vice-President, Academic
- Judy Smith, Dean of Lifelong Learning, pro tem
- Tania Bubela, Dean of Health Sciences
- Susan O'Neill, Senator – Education
- Michael Parent, Senator – Business

Given the failure to reach quorum in July, the Chair noted that a websurvey would be sent out to better track future Senate attendance and requested Senators to send their regrets should they be unable to attend a scheduled meeting.

The Chair reported on recent research news:

- SFU has submitted two applications to the *Canada Excellent Research Chairs Program* to establish a Chair in Big Data Access and Curation and a Chair in Clean Energy Systems. This highly competitive program will fund 11 Chairs across Canada valued at about $10M each, with at 1:1 matching requirement. The applications were developed with extensive input from two interdisciplinary Steering Committees, with membership from multiple Faculties. Competition results will be announced in November 2017.
- *Weatherhaven*, a company that provides re-deployable shelter systems, has 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.
- Adam Vaughan, a PhD candidate in SFU's School of Criminology, is one of two researchers awarded a Health Policy Fellowship by *Michael Smith Foundation for Health Research*.

The Chair reported on recent research grant successes:

- Three SFU proposals collectively secured over $300,000 from *CFI* as part of the *John R. Evan's Leaders Fund (JELF)*. It's expected these awards will be matched by the *BC Knowledge Development Fund*. The proposals are: the *Robotic Platform for Accelerated Chemical Biology* by David Vocadlo and Roger Linington from Chemistry; *Facility for Advanced Power Conversion and Energy Applications Research* by Jason Wang from Mechatronics System Engineering ; and *Building the Language Learning and Development Lab* by Henny Yeung from Linguistics.

- Three Canada Research Chairs-affiliated *JELF* applications were also successful, to the total of $370,000.
- SFU was successful in 5 of 6 applications in the *2017 CFI Innovation Fund* competition, which provides major funding for research infrastructure. The total value of the successful applications is $21.7 million. SFU also partnered on three other successful applications led by collaborating institutions. The details are still under embargo, but will be shared as soon as they become available.
- SFU will be submitting six applications to the *Canada 150 Research Chairs Program*, which provides an opportunity to recruit outstanding international researchers, as well as Canadian expatriates. This highly competitive program expects to fund between 15-35 Chairs nationwide, with results expected in December.

The Chair reported on recent research awards and honours:

- Computing Science Professor Fred Popowich received a *Distinguished Service Award* from the *Canadian Artificial Intelligence Association*.
- Emeritus Computing Science professor Tom Calvert received the *Canadian Digital Media Pioneer Award* from the *Canadian Human-Computer Communications Society* for his significant contributions to the development of digital media in Canada.
- Former Computing Science professor Kori Inkpen, now at *Microsoft Research*, was also recognized with an achievement award from the same Society.
- Two SFU faculty members will be inducted as members of the *Royal Society of Canada* on November 24 at the RSC's annual general meeting in Winnipeg. They are Nicholas Blomley, Department of Geography, in the Faculty of Environment, who's recognized as a leading founder of the interdisciplinary field of legal geography, and John Harriss, School of International Studies in the Faculty of Arts and Social Sciences, who is a global authority on the politics of development, particularly on the politics, society and economics of India.
- Nathalie Sinclair of the Faculty of Education has been elected to the RSC's College of New Scholars, Artists and Scientists. Nathalie, a Canadian Research Chair in Tangible Mathematics Learning, has been researching the potential of technology to bring mathematics to life and transform how teachers and learners approach the subject.
- Computing Science Professor Jian Pei received the *2017 Innovation Award* from the *Association for Computing Machinery*, the highest award for technical excellence in the field of Knowledge Discovery and Data Mining.

The Chair reported that in June Governor General of Canada David Johnston visited SFU *VentureLabs* in Vancouver, where he took part in a dynamic round table discussion with local innovators and entrepreneurs, focusing on ways we can improve Canada's culture of innovation. He also toured the *VentureLab* facility and saw a range of demonstrations by SFU-linked innovators.

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The Chair reported that SFU's leadership in social entrepreneurship and innovation has been recognized by our designation as an *Ashoka U Changemaker Campus*, one of just over 40 global institutions to pass this rigorous process, and the first university in British Columbia to be so designated.

The Chair reported that *KEY*, our Big Data Initiative, is creating invaluable opportunities for students to create hands-on experiences with data. The *KEY Graduate Scholarship* enables Masters and PhD students to incorporate Big Data approaches, tools and analysis into their research. *KEY* launched the inaugural scholarship competition this past summer. Of 120 applications, 16 were awarded scholarships valued at $6500 each. The majority of these were students in non-traditional fields to Big Data, including English, Psychology, and Business students. *KEY* is also engaging undergraduate students in big data. This year, it is funding 20 *Undergraduate Student Research Awards* valued at $4500. These awards enable students from across all disciplines to engage in a major data-intensive research project with a faculty member. Also, this fall, *Key* is launching a *Data Visionaries Series* featuring conversations with data visionaries from SFU and beyond. September's line-up includes leaders from across disciplines, including Juliette Powell, Constance Crompton and John Dill.

The Chair reported that Board of Governors Chair Julia Kim, Vice-President, External Relations Joanne Curry and the President welcomed new Advanced Education Minister Melanie Mark to SFU Burnaby a few weeks ago. Aside from being an SFU alumna, Melanie Mark is the first indigenous woman MLA in the legislature. She was provided an overview of all three campuses and was given a tour of Burnaby ending with an informal meet-and-greet reception that included students and other representatives.

The Chair noted a number of recent and upcoming events:

- In June SFU hosted alumni receptions in Victoria and San Francisco.
- In July the President's Employee Appreciate Barbeque in Burnaby drew record turn-out.
- On September 6th the installation of a new Musqueam Welcome Figure by leading Musqueam artist Brent Sparrow was unveiled at SFU Harbor Centre.
- The Outstanding Alumni Awards are taking place on September 13th.
- The annual Terry Fox Run takes place on September 29th.
- The SFU-Aboriginal Reconciliation Council Report will be formally presented at a ceremony on October 16th in Convocation Mall.

2. **Annual Financial Report (S.17-83)**
    Senate received for information the Annual Financial Report.

3. **Membership Revision to Senate Graduate Studies Committee (S.17-73)**
    Senate approve the proposed revision to the membership on the Senate Graduate Studies Committee.

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4. **Full Program Proposal for the Certificate in Biological Anthropology (S.17-74)**
   Senate approved and recommend to the Board of Governors the full program proposal for the Certificate in Biological Anthropology in the Department of Archaeology within the Faculty of Environment, effective Spring 2018.

5. **Establishment of the Centre for Collaborative Action on Indigenous Health Governance (S.17-84)**
   Senate approved the establishment of the Centre for Collaborative Action on Indigenous Health Governance as a research centre for a five-year term.

6. **Undergraduate Course Changes (S.17-75)**
   Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following course changes, effective Spring 2018:

   i) Beedie School of Business

   - Course (deletion): BUS 329 (effective Summer 2018)

   ii) Faculty of Environment

   a) Geography
   - Course (B-Soc-Sci designation): GEOG 104

   iii) Faculty of Health Sciences

   - Course (description, equivalency): HSCI 426
   - Course (description, equivalency, prerequisite): HSCI 427
   - Course (description, prerequisite): HSCI 440, 441, 442

   iv) Faculty of Science

   a) Chemistry
   - Course (description): SCI 191

   b) Mathematics
   - Course (title, description, prerequisite): MATH 302
   - Course (title, description, prerequisite): MATH 303 (effective Fall 2018)
   - Course (title, description, prerequisite): MATH 304 (effective Spring 2019)

   c) Physics
   - Course (prerequisite): PHYS 332

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7. Undergraduate New Course Proposals (S.17-76)
Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following new course proposals, effective Spring 2018:

i) Faculty of Applied Sciences

   a) *School of Mechatronic Systems Engineering*
   - Course (new): MSE 429

ii) Beedie School of Business

   - Course (new): BUS 330, 331 (effective Summer 2018)
   - Course (new): BUS 465

iii) Faculty of Science

   a) *Molecular Biology and Biochemistry*
   - Course (new): MBB 302 (effective Summer 2018)

8. Undergraduate Program Changes (S.17-77)
Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following program changes, effective Spring 2018:

i) Beedie School of Business

   - Program: Business Minor
   - Program: Innovation & Entrepreneurship Certificate
   - Program: Non-Majors' Access to Business Courses
   - Program: Business Technology Management Certificate

ii) Faculty of Environment

   a) *Archaeology*
   - Program: Archaeology Major
   - Program: Archaeology Honours
   - Program: Anthropology and Archaeology Joint Major
   - Program: Archaeology Minor
   - Program: Archaeology Extended Minor

iii) Faculty of Health Sciences

   - Program: Health Sciences Major
   - Program: Health Sciences Honours

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9. **Undergraduate Course Changes (S.17-85)**
   Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following course changes, effective Summer 2018:

   i) **Faculty of Communication, Art and Technology**

   a) *School of Interactive Arts and Technology*
    - Course (prerequisite, description): IAT 265, 267
    - Course (description, prerequisite and equivalency): IAT 343
    - Course (description, equivalency): IAT 344, 432
    - Course (units, description, prerequisite): IAT 396
    - Course (description): IAT 438
    - Course (temporary withdrawal): IAT 403, 405

   b) *Publishing*
    - Course (title): PUB 201
    - Course (description): PUB 456
    - Course (deletion): PUB 210

   ii) **Faculty of Science**

   a) *Molecular Biology and Biochemistry*
    - Course (description): MBB 441

10. **Undergraduate New Course Proposals (S.17-86)**
    Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following new course proposals, effective Summer 2018:

    i) **Faculty of Science**

    a) *Chemistry*
     - Course (new): CHEM 284, 399

    b) *Mathematics*
     - Course (new): MATH 301

11. **Undergraduate Program Changes (S.17-87)**
    Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following program changes, effective Summer 2018:

    i) **Beedie School of Business**

     - Program: Interactive Arts and Technology and Business Joint Major (BA or BBA)
     - Program: Interactive Arts and Technology and Business Joint Major (BSc)

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- Program: Molecular Biology and Biochemistry and Business Administration Joint Major (BSc)
- Program: Business and Economics Joint Honours (BA or BBA)
- Program: Business and Communications Joint Major (BA or BBA)
- Program: Information Systems in Business Administration and Computing Science Joint Major (BBA or BSc)
- Program: Business and Economics Joint Major (BA or BBA)
- Program: Business and Geography Joint Major (BA or BBA)
- Business and Psychology Joint Major (BA or BBA)
- Program: Requirement changes for external transfers
- Program: Joint Major admissions

ii) Faculty of Communication, Art and Technology

a) *School of Interactive Arts and Technology*
- Program: Interactive Arts and Technology BA Honours
- Program: Interactive Arts and Technology BSc Honours
- Program: Interactive Arts and Technology BA Major
- Program: Interactive Arts and Technology BSc Major
- Program: Interactive Arts and Technology BA Second Degree
- Program: Interactive Arts and Technology BSc Second Degree
- Program: Interactive Arts and Technology Minor

b) *Publishing*
- Program: Publishing Minor

c) *School of Communication*
- Program: Communications Honours (Option A and option B)

iii) Faculty of Health Sciences

- Program: Health Sciences Major (BA)
- Program: Health Sciences Major (BSc)

iv) Faculty of Science

a) *Physics*
- Program: Biological Physics Major
- Program: Biological Physics Honours
- Program: Chemical Physics Major
- Program: Chemical Physics Honours
- Program: Applied Physics Major
- Program: Applied Physics Honours
- Program: Mathematical Physics Honours
- Program: Physics Major
- Program: Physics Honours

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b) Statistics and Actuarial Sciences
  - Program: Statistics Major
  - Program: Statistics Honours

12. Undergraduate Course Changes (S.17-88)
Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following course changes, effective Summer 2018:

i) Beedie School of Business

  - Course (prerequisite): BUS 417, 432, 479
  - Course (prerequisite, equivalency): BUS 430

ii) Faculty of Science

a) Biological Sciences
  - Course (prerequisite): BISC 101
  - Course (deletion): BISC 404W, 419

b) Biomedical Physiology and Kinesiology
  - Course (description): BPK 141, 143, 343, 445, 482

c) Earth Sciences
  - Course (description): EASC 108

d) Statistics and Actuarial Sciences
  - Course (prerequisite): STAT 452

13. Undergraduate Program Changes (S.17-89)
Senate received information that the Senate Committee on Undergraduate Studies, acting under delegated authority, approved the following program changes, effective Summer 2018:

i) Faculty of Applied Sciences

a) School of Computing Sciences
  - Program: Information Systems in Business Administration and Computing Science Joint Major

b) School of Engineering Science
  - Program: Engineering Physics Option Honours

ii) Beedie School of Business

  - Program: Business Major
  - Program: Business Honours

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- Program: Mechatronic Systems Engineering and Business Double Degree
- Program: Business and Economics Joint Major (BA or BBA)
- Program: Interactive Arts and Technology and Business Joint Major (BA or BBA)
- Program: Interactive Arts and Technology and Business Joint Major (BSc)
- Program: Business and Economics Joint Honours (BA or BBA)
- Program: Certificate in Innovation and Entrepreneurship

iii) Faculty of Science

a) *Biological Sciences*
- Program: Biological Sciences Post Baccalaureate Diploma
- Program: Biological Sciences Minor
- Program: Biological Sciences Major
- Program: Biological Sciences Honours

b) *Earth Sciences*
- Program: Earth Sciences Major
- Program: Earth Sciences Honours

14. Graduate Course Changes (S.17-78)

Senate received information that the Senate Graduate Studies Committee, acting under delegated authority, approved the following course changes effective Spring 2018:

i) Faculty of Arts and Social Sciences

- Course (units): HIST 898, 899

ii) Beedie School of Business

- Course (units): BUS 553

iii) Faculty of Education

- Course (units): EDUC 899

iv) Faculty of Sciences

- Course (prerequisite): STAT 641, 642, 645, 675, 685
- Course (prerequisite, description): STAT 652
- Course (units): BPK 899

v) Special Arrangements

- Course (units, title): SAR 891, 892, 893, 894, 895

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15. **Graduate New Course Proposals (S.17-79)**
Senate received information that the Senate Graduate Studies Committee, acting under delegated authority, approved the following new course proposals, effective Spring 2018:

i) **Faculty of Education**

  - Course (new): EDUC 740

ii) **Faculty of Environment**

  - Course (new): ECO 630, 640

iii) **Faculty of Science**

  - Course (new): BPK 895, 896, 897

16. **Graduate Program Changes (S.17-80)**

i) **Faculty of Applied Sciences**

  - Program: Engineering Science MEng

ii) **Faculty of Arts and Social Sciences**

  - Program: History MA
  - Program: History PhD
  - Program: International Studies MA

iii) **Beedie School of Business**

  - Program: Master of Business Administration

iv) **Faculty of Education**

  - Program: Advanced Professional Studies in Education Graduate Diploma
  - Program: Arts Education MA
  - Program: Arts Education Med
  - Program: Arts Education PhD
  - Program: Counselling Psychology MA
  - Program: Counselling Psychology Med
  - Program: Curriculum and Instruction Graduate Certificate
  - Program: Curriculum and Instruction MA
  - Program: Curriculum and Instruction Med
  - Program: EdD Doctor of Education
  - Program: Education Individual Program MA
  - Program: Education Individual Program Med
  - Program: Educational Leadership Graduate Certificate

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- Program: Educational Leadership MA
- Program: Educational Leadership Med
- Program: Educational Practice Med
- Program: Educational Psychology MA
- Program: Educational Psychology Med
- Program: Educational Psychology PhD
- Program: Educational Technology and Learning Design MA
- Program: Educational Technology and Learning Design PhD
- Program: Educational Theory and Practice PhD
- Program: Imaginative Education Graduate Certificate
- Program: Languages, Culture and Literacies PhD
- Program: Mathematics Education PhD
- Program: Secondary Mathematics Education Med
- Program: Secondary Mathematics Education MSc
- Program: TEAL - Teaching English as an Additional Language (TESL/TEFL) MA
- Program: TEAL - Teaching English as an Additional Language (TESL/TEFL) Med

v) Faculty of Environment

- Program: Ecological Restoration MSc

vi) Faculty of Science

- Program: Biomedical Physiology and Kinesiology MSc (Thesis Option)
- Program: Biomedical Physiology and Kinesiology PhD
- Program: Interdisciplinary Oncology Graduate Specialization

17. Graduate General Regulation (GGR) Revisions (S.17-81)
Senate approved the revisions to GGR 1.4.3 (Continuity of Enrollment), GGR 1.4.6 (Course Audit), GGR 1.4.9 (Readmission), GGR 1.5.1 (Normal Grading System), GGR 1.5.6 (FD Notation) and GGR 1.5.8 (Student's Record after Awarding Degree), effective Spring 2018.

18. Election Report to Senate (S.17-82 Revised)
Senate received for information a summary of the results of the student election to Senate and the Board of Governors, the convocation election to Senate, and the faculty election to Senate.

19. Election Report to Senate (S.17-90)
Senate received for information a summary of the results of the student election to Senate and the Board of Governors, the convocation election to Senate, and the faculty election to Senate.

20. Institutional Research and Planning (IRP) Reports (S.17-91)
Senate received the 2016/17 Grades Report, and the 2016 Undergraduate Student Survey (UGSS) Report for information.

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The approved Senate minutes will be available online following the November Senate meeting. For more detailed information on each Senate item, please refer to the September 2017 Senate documents https://docushare.sfu.ca/dsweb/View/Collection-31611

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