

Table of Contents

70th CSM Annual General Meeting Agenda	2
Minutes of the 69th Annual General Meeting	4
5..... President’s Report	11
<i>b) Bylaws Amendments</i>	13
6..... 1st Vice President’s Report	21
7..... 2nd Vice President’s Report	21
8..... Past President’s Report	21
9..... Secretary / Treasurer’s Report	22
<i>a) 2020 Budget</i>	22
<i>b) 2019 Audited Financial Statement</i>	25
<i>d) Membership Report</i>	35
<i>e) CSM Website Report</i>	36
10..... Meetings Secretary’s Report	45
11..... Meetings, Conferences and Workshop	46
<i>a) Report on 2019 Conference</i>	46
<i>b) Report on 2020/2021 Conference</i>	53
<i>c) Future Conferences & Workshops</i>	60
12 Post Doctoral Representative Report	60
13 Graduate Student Representative	61
14..... New Members of the Executive & Council	61
15..... Reports from the Sections	62
<i>a) Applied Environmental Microbiology</i>	62
<i>b) Infections and Immunity</i>	63
<i>c) Molecular Genetics and Cellular Microbiology</i>	63
16..... Reports from the Committees	63
<i>a) Education and Career Committee</i>	63
<i>b) Committee on Microbiology Undergraduate Education</i>	65
<i>c) Awards Reports</i>	66
<i>i. CSM Murray Award for Career Achievement</i>	66
<i>ii Thermo Fisher Scientific Award</i>	66
<i>iii Armand Frappier Award</i>	66
17..... Reports from Representatives to outside Organizations	66
<i>a) Canadian Journal of Microbiology</i>	66
<i>b) International Union of Microbiological Societies Virology</i>	67
<i>c) International Union of Microbiological Societies - Mycology</i>	67
<i>d) International Union of Microbiological Societies – Bacteriology</i>	67
<i>e) International Committee on Taxonomy of Viruses</i>	67
<i>f) Biological & Chemical Defence Review</i>	68
<i>g) ASM International Membership Comm. & Ambassador to Canada</i>	68
<i>h) ASM Young Ambassador to Canada</i>	69
<i>i) Partnership Group in Science and Engineering</i>	69



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CSM – SCM 70th Annual General Meeting

Date: Thursday, June 25th, 2020

Via Zoom: <https://zoom.us/j/98898264399?pwd=ZnZyVXI0UktRRnF3eW50Q1dnZmJXdz09>

Time: 3:00 PM –4:30 PM ET

Meeting Agenda

1. Introductions & Welcome – Janet Hill
2. Approval of Agenda
3. Approval of minutes from Université de Sherbrooke 69th Annual General Meeting, Wednesday, June 12th, 2019
4. Matters arising from 69th Annual General Meeting minutes
5. President's Report – Janet Hill
 - a. Bylaws Amendments
6. 1st Vice President Report – Ayush Kumar
7. 2nd Vice President Report – Alex Ensminger
 - a. CSM Website – upgrade
8. Past President Report – Marie Elliot
9. Secretary Treasurer's report – Mohan Babu
 - a) 2019 - 2020 Budget
Motion to approve the 2019 – 2020 presented budget
 - b) 2019 Audited Financial Statement
Motion to accept the Audited Financial statement prepared by Ms. Andrea Poole.
 - c) Approval of current and future signing officers
Motion to approve current and future signing officers
 - d) Membership Report
 - e) CSM Website Report
10. Meetings' Secretary's Report – Chris Yost

11. Meetings Conferences and Workshops
 - a) Report on 2019 conference – Vincent Burrus, Louis-Charles Fortier and Pascale B. Beauregard
 - b) Report on 2020 / 2021 conference – Cezar Khursigara and Kari Dunfield
 - c) Future Conferences & Workshops – Tanaka Takuji
12. Post Doctoral representative's report – Stephanie Jones
13. Student representative's report – Olivia Ihedioha
14. New Members of the Executive & Council – Janet Hill
15. Reports from the sections
 - a) *Applied Environmental Microbiology* – Steven Short & Laura Hug
 - b) *Infections and Immunity* – Sebastien Faucher and Georgina Cox
 - c) *Molecular Genetics and Cellular Microbiology* – Tracy Raivio & Alex Hynes
16. Reports from committees
 - a) Education and Careers Committee –Denice Bay & Dawn Bignell, Edel Lopez
 - b) Committee on Microbiology Undergraduate Education – Maria Davis & Joseph Rubin
 - c) Awards Report
 - i. *CSM Murray Award for Career Achievement* – Sylvain Moineau
 - ii. *Fisher Scientific Award* – Marie Elliot
 - iii. *Armand Frappier Award* – Kapil Tahlan
17. Reports from representatives to outside organizations
 - a) *Canadian Journal of Microbiology* – Chris Yost & Kari Dunfield
 - b) *International Union of Microbiological Societies* – Virology – Rodney Russell
 - c) *International Union of Microbiological Societies* – Mycology - Jennifer Geddes-McAlister
 - d) *International Union of Microbiological Societies* – Bacteriology – Charles Dozois
 - e) *International Committee on Taxonomy of Viruses* – Andrew Lang
 - f) *Biological & Chemical Defence Review* – Jon van Hamme
 - g) *ASM International Membership Comm. & Ambassador to Canada* - Christine Szymanski
 - h) *ASM Young Ambassador to Canada* – Thomas Finn
 - i) *Partnership Group in Science and Engineering* – PAGSE – Thienny Mah



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69th CSM – SCM Annual General Meeting

Date: Wednesday, June 12th, 2019

Location: Université de Sherbrooke

Building: Centre Culturel (B3)

**Room: Maurice-O’Bready
Sherbrooke, QC**

Time: 6:00 – 6:45 PM

Meeting Agenda

1. Introductions
2. Approval of Agenda
3. Approval of minutes from Manitoba 68th Annual General Meeting, June 20, 2018
4. Matters arising from 68th Annual General Meeting report
5. President’s Report – Marie Elliot
 - a. Faculty Representatives
6. 1st Vice President Report – Janet Hill
 - a. Identifying and encouraging female researches to be nominated for the society awards lectures.
7. Past President Report – Andrew Lang
8. Secretary Treasurer’s report – Mohan Babu
 - a) 2019 Budget Presentation
 - **Motion** to approve the presented budget
 - b) 2018 Audited Financial Statement Presentation
 - **Motion** to accept the audited financial statement
 - **Motion** to approve current and future signing officers
 - c) Membership Report
 - d) CSM Website Report
9. Meetings’ Secretary’s Report – Chris Yost
 - a) Profit Sharing
 - b) LOC Guidelines

10. Meetings Conferences and Workshops
 - a) Report on 2018 conference – Ann Karen Brassinga, Ayush Kumar & Ivan Oresnik
 - b) Report on 2019 conference – Vincent Burrus and Louis-Charles Fortier
 - c) Report on 2020 conference – Cezar Khursigara and Kari Dunfield
 - d) Future Conferences & Workshops – Tanaka Takuji
11. Post Doctoral representative’s report – Stephanie Jones
12. Student representative’s report – Olivia Ihedioha
13. New Members of the Executive & Council – Marie Elliot
14. Reports from the sections
 - a) *Applied Environmental Microbiology* – Steven Short & Laura Hug
 - b) *Infections and Immunity* – Sebastien Faucher and Georgina Cox
 - c) *Molecular Genetics and Cellular Microbiology* – Tracy Raivio & Alex Hynes
15. Reports from committees
 - a) Education and Careers Committee – Josh Neufeld, Denice Bay & Dawn Bignell
 - b) FOME – Tanya Noel & Josie Libertucci
 - c) Awards Report
 - iv. *CSM Murray Award for Career Achievement* – William Mohn
 - v. *Fisher Scientific Award* – Andrew Lang
 - vi. *Armand Frappier Award* – Joe Harrison
16. Reports from representatives to outside organizations
 - a) *Canadian Journal of Microbiology* – Chris Yost & Kari Dunfield
 - b) *International Union of Microbiological Societies* – Virology – Rodney Russell
 - c) *International Union of Microbiological Societies* – Mycology - Jennifer Geddes-McAlister
 - d) *International Union of Microbiological Societies* – Bacteriology – Charles Dozois
 - e) *International Committee on Taxonomy of Viruses* – Andrew Lang
 - f) *Biological & Chemical Defence Review* – Jon van Hamme
 - g) *ASM International Membership Comm. & Ambassador to Canada* - Christine Szymanski
 - h) *ASM Young Ambassador to Canada* – Agatha Jassem
 - i) *Partnership Group in Science and Engineering – PAGSE* – Thienny Mah

Minutes

Participants: 1 Marie Elliot (President), 2 Mohan Babu (Secretary / Treasurer), 3 Denice Bay (Education Committee Co-Chair), 4 Dawn Bignell (Education Committee Co-Chair), 5 Vincent Burrus (2019 USherbrooke Conference Co-Chair), 6 Georgina Cox (II Section VC), 7 Teresa DeKievit (Education Committee), 8 Kari Dunfield (2020 U of Guelph Conference Co-Chair), 9 Wafaa Antonious (Secretariat), 10 Sebastien Faucher (II Section Chair), 11 Louis-Charles Fortier (2019 USherbrooke Conference Co-Chair), 12 Janet Hill (Vice President), 13 Alex Hynes (MGCM Section VC), 14 Cezar Khursigara (2020 U of Guelph Conference Co-Chair), 15 Ayush Kumar (2nd Vice President), 16 Andrew Lang (Past President), 17 Steven Short (AEM Section Chair), 18 Takuji Tanaka (Meetings, Conferences & Workshops), 19 Jon Van Hamme (Representative: Biological & Chemical Defence Committee of DND), 20 Christopher Yost (Meetings Secretary), 21 Sellam Adnane, 22 Ivan Oresnik, 23 Louise Nelson, 24 Carole Creuzenet, 25 George diCenzo, 26 Ines Khemiri, 27 Jenny Cortez-Cordova, 28 Joseph Rubin, 29 Daniel Dubreuil, 30 Naowarat Cheeptham (Education Committee), 31 Gerald Audette, 32 Christian Baron, 33 Nikhil Thomas (2021 U Dalhousie Conference), 34 Jackson Tsuji, 35 Emma Mulholland, 36 Evan Shepherdson, 37 Matt Zambri, 38 Meghan Pepler, 39 Xiafei Zhang, 40 Kapil Tahlan (Armand Frappier Award Committee), 41 Josh Neufeld (Education Committee Co-Chair), 42 Omar El-Halfawy, 43 Sarah Piché-Choquette, 45 Izhar Khan, 46 Zakaria Jemouai, 47 France Daigle, 48 Pascale Beauregard (2019 USherbrooke Conference Co-Chair), 49 Alexander Ensminger, 50 Maria Davis, 51 Shawn MacLellan, 52 Dongyan Niu, 53 Jolene Garber, 54 Christine Szymanski, 55 Hindra Hindra, 56 Andrew Cameron, 57 Richard Villemur, 58 Jonathan Perreault, 59 Michael Hynes, 60 Charles Dozois, 61 Unidentifiable Signature

1. Introductions

Marie Elliot, CSM President introduced CSM Executive members in attendance and welcomed the participants. She stated that 45 minutes were allotted to the AGM and then we needed to vacate the room. She recommended that we go through the items of the agenda as efficiently as possible.

2. Approval of Agenda

Motion: Alex Hynes made a motion to approve the agenda, Takuji Tanaka seconded the motion, all in favour, agenda approved.

Richard Villemur asked to add ISME16 Travel awards at the end of the agenda. Marie responded that it would be added to the agenda but if the time did not allow discussing this item, then he could bring it forward to the CSM Executive for discussion.

3. Approval of minutes from Manitoba 68th Annual General Meeting, June 20, 2018

Marie stated that the Manitoba 68th AGM minutes were circulated to members by email as part of the package. She asked if there were any questions regarding the minutes. None were raised.

Motion: Janet Hill made a motion to approve the minutes, Maria Davis seconded the motion, all in favour, minutes approved.

4. Matters arising from 68th Annual General Meeting report

Marie stated that all matters arising from 68th AGM were addressed.

5. President's Report – Marie Elliot

Marie reported that the president letter went out to CSM members early in June and it included two points that requested feedback from the members. First was to make the CSM Conference more accessible for those who are caring for elderly parents or young children. Marie stated that Wafaa had an Excel sheet set up, she encouraged them to visit the CSM booth if they had any ideas, thoughts or concerns to communicate to Wafaa.

a. Faculty Representatives

Marie commented that the second point was CSM Faculty Representatives position. This was discussed with members of the council on Monday. Historically the responsibility of the faculty reps was to receive communications from CSM and distribute it within their institutions. The second role was to identify one deserving student from their institution to nominate for the Armand Frappier Outstanding Student Award. The nomination procedure was changed for the Armand Frappier and more than one nomination can be received from the institution. The nominator and the student must be CSM members but the process does not require the faculty representative to be involved in the nomination process. She requested suggestions from the participants regarding how to get the faculty reps more engaged. She reported that when this item was discussed at the council meeting earlier that week one recommendation was to have the faculty rep provide CSM with list of departments that have microbiologists and the email contacts. Another suggestion which was the outcome of Janet's presentation of awards nominations and gender representation, that have the faculty rep approach the department chairs asking them to encourage female deserving microbiologists to accept to have their names put forward for CSM awards' nominations. She then opened the floor for discussion about ways to engage the faculty reps or is it time to retire the faculty reps' position. Carole Creuzenet stated that as a faculty rep when she forwarded the CSM alerts to her colleagues they advised her that they already had received them. Other than the Armand Frappier nomination she felt that there was nothing else for her to do as a faculty representative. Marie asked her if there were any recommendations she would like to add to the faculty rep's role. She responded that she felt that CSM was communicating effectively with the various social media (Twitter and Facebook) and posting information on the website was useful. Wafaa suggested asking the faculty reps to approach new faculty and encourage them to join CSM. Marie responded that CSM had been doing a good job of identifying new faculty members and inviting them to speak at the CSM Conference which could be more effective than having a faculty rep inviting new faculty members to join the CSM but this is a role that can be considered. She felt that there were lots of CSM members in the institutions who could approach new faculty members and this approach should not be limited to the faculty rep. Ivan recommended to drop the position since the role was no longer relevant. Marie asked for a show of hand of anyone who opposed dropping the position, none were raised. Marie asked if a motion is needed to end the position of faculty reps. Janet stated that the position was not in the bylaws thus a motion was not required. It was decided to end the position of faculty representatives. Marie then asked if anyone had any questions or comments about the President report that was included in the AGM package. No comments or concerns were raised.

6. 1st Vice President Report – Janet Hill

a. Identifying and encouraging female researches to be nominated for the society awards lectures.

Marie stated that she had referred to Janet's presentation at the President report then asked Janet if she had anything to add. Janet confirmed that there was nothing to add.

7. Past President Report – Andrew Lang

Andrew did not have anything to add to the Past President report.

8. Secretary Treasurer's report – Mohan Babu

a) 2019 Budget Presentation

Mohan presented the budget. He explained that the numbers in the 2019 column were estimated numbers to end of year. The 2018, 2017 and 2016 columns were numbers from the audited financial reports. He then presented the highlighted numbers in the report. CSM spent \$23,000 in awards support and then he listed the award names. All the award expenses - and associated revenue - have been part of CSM operation budget since 2018. CSM also added CSM members' event support in 2019. The total estimated net profit for 2019 is over \$17,300 and the conference net profit is \$37,812. As of June 5, 2019, CSM Investment account balance is \$272,892.68 and chequing account balance is: \$24,795.86. He concluded that overall CSM was doing well financially. He asked if there were any questions, none were asked.

Motion: Janet made a motion to approve the presented budget, seconded by Louise Nelson, all in favour, budget approved.

b) 2018 Audited Financial Statement Presentation

Mohan stated that he went through the numbers with Wafaa and accepted the 2018 audited financial statement. He then presented the highlighted numbers in the audited financial statement prepared by Ms. Andrea Poole. He explained that the awards expenses in 2018 were \$23,319 compared to \$9,846 in 2017 because awards revenue and expenses were moved from conference budget to CSM operation budget.

Motion: Marie made a motion to accept the audited financial statement, seconded by Denice Bay, all in favour, audited financial statement accepted.

Mohan then listed the current and future signing officers. Current signing officers are Wafaa Antonious, Marie Elliot, Janet Hill, Chris Yost, and Mohan Babu. Future signing officers are Alex Ensminger and Ayush Kumar.

Motion: Josh Neufeld made a motion to approve current and future signing officers, seconded by Charles Dozois, all in favour, signing officers accepted.

c) Membership Report

Mohan presented the membership report and distribution among the sections and provinces. Membership numbers are affected by the conference location. As of date CSM has 704 paid members. CSM had shown a steady increase in members over the years.

d) CSM Website Report

Mohan presented the website report prepared by Wafaa.

9. Meetings' Secretary's Report – Chris Yost

a) Profit Sharing

Chris stated that the CSM Executive approved at the Executive meeting to lower the LOC profit sharing to \$20,000 and anything above that will be split 50: 50 with the LOC. Marie added that this decision was reached after looking at CSM finances over several years and determining how much the conference needed to provide to cover CSM operating costs and future initiatives. It was also based on CSM's solid financial position.

b) LOC Guidelines

Chris stated that he chaired a committee of past CSM Conferences Chairs to review the LOC guidelines. ME thanked Chris and the committee for looking into that.

10. Meetings Conferences and Workshops

ME asked if anyone would like to add to the 2018, 2019 or 2020 reports, there were no additions. She asked for a round of applause to acknowledge the tremendous efforts of this year's (and previous years) organizing committees.

a) Report on 2018 conference – Ann Karen Brassinga, Ayush Kumar & Ivan Oresnik

b) Report on 2019 conference – Vincent Burrus and Louis-Charles Fortier

c) Report on 2020 conference – Cezar Khursigara and Kari Dunfield

d) Future Conferences & Workshops – Tanaka Takuji

Marie recognized Tak's efforts in securing CSM future conferences. She then listed future conferences locations and dates. 2020 will be held at the University of Guelph, 2021 at Dalhousie University, 2022 will be at Western and 2023 will be at Laval University. Tak encouraged anyone who wants to organize 2024 or 2025 CSM Conferences to contact him.

Note: given the current shut-down situation, all conference dates will be shifted forward by a year (Guelph, 2021, Dalhousie, 2022, etc.) [pending agreement by the hosts.](#)

11. Post Doctoral representative's report – Stephanie Jones

Marie stated that unfortunately, neither Stephanie nor Olivia were able to attend the conference but their written reports were included in the package.

12. Student representative's report – Olivia Ihedioha

See above.

13. New Members of the Executive & Council – Marie Elliot

Marie welcomed the new members of the Executive and Council and listed their names. Alex Ensminger, (U of T) will be the 2nd Vice President, Laura Hug (Waterloo U) is now the VC of the AEM Section, Georgina Cox (U of G) is VC of the II Section and Alexander Hynes (McMaster U) is the VC of the MGCM Section. She thanked Andrew Lang (Memorial U) who will be stepping down from the Executive Committee, for all his time and dedication to the CSM. She also thanked the Section Chairs and Vice Chairs for all the work they had done.

14. Reports from the sections

Marie asked if anyone from the sections have anything to add, there was nothing.

a) Applied Environmental Microbiology – Steven Short & Laura Hug

b) Infections and Immunity – Sebastien Faucher and Georgina Cox

c) Molecular Genetics and Cellular Microbiology – Tracy Raivio & Alex Hynes

15. Reports from committees

a) Education and Careers Committee – Josh Neufeld, Denice Bay & Dawn Bignell

Marie asked if anyone from the Education Committee had anything to add to the written report, there was nothing. She acknowledged the work done by the Education Committee and commented that the Professional workshop was well organized and the Student Symposium presentations were amazing.

b) FOME – Tanya Noel & Josie Libertucci

Marie asked if anyone from the FOME Committee had anything to add to the written report, there was nothing. She acknowledged the work done by the FOME Committee and commented that the FOME workshop was well organized and well attended.

c) Awards Report

Marie stated that the 3 awards reports were included in the package and asked if anyone from these committees had anything to add. No additions were requested.

- i. CSM Murray Award for Career Achievement – William Mohn**
- ii. Fisher Scientific Award – Andrew Lang**
- iii. Armand Frappier Award – Joe Harrison**

16. Reports from representatives to outside organizations

Marie thanked those who were representing CSM within Canada or beyond the borders. She then asked if anyone had anything to add to the written reports from various representatives to outside organizations. No additions were requested.

a) Canadian Journal of Microbiology – Chris Yost & Kari Dunfield

b) International Union of Microbiological Societies – Virology – Rodney Russell

c) International Union of Microbiological Societies – Mycology - Jennifer Geddes-McAlister

d) International Union of Microbiological Societies – Bacteriology – Charles Dozois

e) International Committee on Taxonomy of Viruses – Andrew Lang

f) Biological & Chemical Defence Review – Jon van Hamme

g) ASM International Membership Comm. & Ambassador to Canada - Christine Szymanski

h) ASM Young Ambassador to Canada – Agatha Jassem

i) Partnership Group in Science and Engineering – PAGSE – Thienny Mah

17. Other: ISME 16 Travel Awards.

Richard Villemur: we have \$12,000 left from ISME 16, Lyle Whyte has the funds in a McGill account and would like to forward these funds to CSM to manage the travel awards. They are proposing to have 7 awards to go towards the travel of students and Post Doctoral fellows to ISME 20 which will be held in South Africa, Cape Town. \$1,500 will go to CSM which can be used to support whatever student or PD awards or initiatives the CSM would like to provide. Marie suggested forwarding this matter to the CSM Executive to discuss the logistics.

Meeting adjourned at 6:45 pm.

5. President's Report – Janet Hill

This year has brought unprecedented challenges to our Society and its members. The global coronavirus pandemic brought many issues into sharp focus. To those of you touched by personal losses and hardship this year, I hope you will find some comfort and reason for hope in the fellowship of the CSM. This year has also presented significant opportunities to learn, reflect, acknowledge and act on issues of inequity facing our fellow microbiologists.

The CSM must be a leader in Equity, Diversity and Inclusion, and must work to eliminate the systemic barriers and institutionalized racism that silence the voices of so many in Canada and around the world. Science is for everyone. As microbiologists, we have important roles to play – in education, and in applying our knowledge and discoveries for the betterment of society. We simply cannot afford to exclude people based on race, ethnicity, sex, disability, gender identity or sexual orientation.

The necessary cancellation of our annual Scientific Conference in Guelph due to COVID-19 was heartbreaking for all of us, but none more so than for the Local Organizing Committee who worked tirelessly to plan what would have been a spectacular conference. The good news is that under the leadership of co-chairs Kari Dunfield and Cezar Khursigara, the LOC has turned its attention to CSM2021 in Guelph. The LOC chairs for the next three conferences have also expressed their willingness to shift the schedule one year into the future, ensuring a line-up of great venues.

In March, we put out the call to identify CSM members willing and able to answer media requests regarding COVID-19. The result was a list of over 30 experts who could respond to questions in either official language on subjects ranging from viral pathogenesis, to vaccine development, infection control, diagnostics, epidemiology and public health. This list is made available to members of the media who contact CSM with interview requests. Thanks to those of you who responded, and to all of you who share your expertise with the media to improve the quality of information made available to the public on matters related to microbiology.

Organizations around the world have faced financial hardships this year due to the global pandemic. Thanks to years of careful financial stewardship and a dedicated membership, the CSM is in a relatively enviable financial position despite the cancellation of the annual scientific conference. We can look forward to continuing our programs supporting students and member-organized events throughout the year, in addition to annual awards and recognitions. Over the past year CSM provided sponsorship for student presentation awards, and hosting of student research day events at several universities across Canada. We also sponsored awards for student presentations at two international conferences organized by CSM members.

As always, the executive is happy to hear from members, especially student and postdoc members, about ways in which the CSM can support you in your research and academic programs and in planning for your future careers. Upholding the principles of equity, diversity and inclusion requires active listening to our membership.

Even though we are not meeting in person, I am delighted that we can gather in cyberspace to celebrate the accomplishments of this year's recipients of the CSM's flagship awards: Lori Burrows (CSM Murray Award), Brendan Daisley (Armand Frappier Outstanding Student Award) and John Whitney (Thermo Fisher Scientific Award). Together with the recipients of the undergraduate student awards (Meghan Pepler, Jonathan Bellini, Kartik Sachar, Madison Chapel, Vienna Bucholz) and Ambassador awards (Moira Dion, Nikhil George), these colleagues inspire us all. Thank you to Canadian Science Publishing and Thermo Fisher for their sponsorship, especially in these financially unpredictable times.

I am personally grateful to the members of the Executive and Council who made it possible to continue the work of the CSM this year, and to new members joining us. Special thanks to CSM Secretariat Wafaa Antonious, who provided steadfast support to the Executive throughout the year.

CSM has a bright future thanks to all of you. I know you will continue to step up, to speak up, and to lift up your fellow members.

It has been an honour to serve as your President.

Janet E. Hill, Ph.D.

Professor, University of Saskatchewan

The University of Saskatchewan is on Treaty Six Territory and the Homeland of the Métis.

b. Bylaws Amendments

CANADIAN SOCIETY OF MICROBIOLOGISTS SOCIÉTÉ CANADIENNE DES MICROBIOLOGISTES BY-LAWS/REGLEMENTS

(Founded June 7, 1951; incorporated October 21, 1958, under Part ii of the Companies Act, 1934)

MISSION STATEMENT

The Society shall endeavour to promote the advancement of microbiology in Canada in all its aspects, and to facilitate the interchange of ideas and information among microbiologists through the organization and support of discussions, lectures, seminars, symposia, and workshops and other activities directed at furthering the advancement of education and the general dissemination and application of scientific knowledge.

BY-LAWS

The current by-law document was established July 24, 1990. The by-law document subsequently received amendments in 2009 and 2014, amendments were passed via a special resolution vote.

1. NAME

The Corporation, hereinafter referred to as the "Society", shall be known as the Canadian Society of Microbiologists - Société Canadienne des Microbiologistes (CSM/SCM)

2. MEMBERSHIP

2.1 TYPES OF MEMBERSHIPS. The Society shall consist of Emeritus/Emerita, Honourary, Ordinary, Postdoctoral Fellow, Graduate Student, and Undergraduate Student members.

2.2 ELIGIBILITY AND DUES.

2.2.1 Honourary Member. Any person who has made a distinctive contribution to microbiology shall be eligible by membership for election as an Honourary member. The number of Honourary members shall not exceed five (5) percent of the Ordinary membership at any time. Honourary members shall be exempt from the payment of all dues and assessments, including registration fees for conferences organized by the Society.

2.2.2 Emeritus/Emerita Member. Any person who has reached normal retirement age of 65 years old, and has been an Ordinary member of the Society for ten or more consecutive years, shall be eligible for Emeritus/Emerita membership. The dues for Emeritus/Emerita membership shall be established at the same rate as the Graduate Student/Postdoctoral Fellow membership.

2.2.3 Ordinary Member. Any person who is interested in the discipline of microbiology shall be eligible for Ordinary membership. The dues for Ordinary membership shall be established yearly at the preceding annual general meeting, on the recommendation of Council.

2.2.4 Graduate Student/Postdoctoral Member. Any person who is interested in the discipline of microbiology, and who is, at the time of application for or renewal of membership, a bona fide full-time postgraduate student or postdoctoral fellow, shall be eligible for Graduate Student or Postdoctoral membership. His/her student status must be certified by his/her supervisor. The dues for Graduate Student/Postdoctoral membership shall be established yearly at the preceding annual general meeting on the recommendation of the Council. Upon request, microbiologists working in temporary, grant-supported research positions may be approved for membership at the Graduate Student/Postdoctoral rate, and would pay the applicable fees to attend the annual conference.

2.2.5 Undergraduate members. Any person who is interested in the discipline of microbiology, and who is, at the time of application of membership, a bona fide undergraduate student in a Canadian postsecondary institution will be eligible for membership at special discounted rate. His/her student status must be certified by a faculty member at that institution. The dues for Undergraduate membership shall be established yearly at the preceding annual general meeting on the recommendation of the Council.

2.2.6 Other members. Other types of membership may be instituted on the advice of the CSM Council, including, but not limited to, sustaining memberships or corporate memberships. Fees for such memberships will be suggested by the Executive and approved by Council.

2.3 NOMINATIONS AND APPLICATIONS FOR MEMBERSHIP

2.3.1 Honourary Membership. A nomination for Honourary membership shall be made in writing to the Secretary-Treasurer as per the established criteria in the Rules & Regulations. The nomination shall be submitted to Council, and if approved by three-fourths of Council it shall be submitted to the membership on the next ballot as provided in By-Law 4.2. The nominee shall be declared elected if affirmed by three-fourths of the votes cast. An Honourary member shall be considered in good standing if he/she has complied with the By-Laws of the Society.

2.3.2 Emeritus/Emerita Membership. An application for Emeritus membership shall be made in writing to the Secretary-Treasurer. Upon meeting the criteria of Section 2.2.2. the member shall be granted Emeritus/Emerita Status. He/she shall be considered in good standing if he/she has complied with the By-Laws of the Society and has paid his/her dues for the current year.

2.3.3 Ordinary Membership. An application for Ordinary membership shall be made on-line or on the form provided and submitted to the CSM Secretariat by mail or fax or through the on-line process on the CSM/SCM web site. When the applicant has remitted the first year's dues, he/she shall be considered an Ordinary member of the Society. An Ordinary member shall be considered in good standing if he/she has complied with the By-Laws of the Society and has paid his/her dues for the current year.

2.3.4 Student/Postdoctoral Membership. An application for Student/Postdoctoral membership shall be made on the form provided or on-line and submitted to the Secretariat by mail or fax or through the on-line process on the CSM/SCM web site. The applicant must be certified as provided in By-Law 2.2.4 or 2.2.5. When the applicant has remitted the first year's dues, he/she shall be considered a Student/Postdoctoral member of the Society. A Student/Postdoctoral member shall be considered in good standing if he/she has complied with the By-Laws of the Society, is certified as a bona fide Student/Postdoctoral Fellow as provided in By-Law 2.2.4 or 2.2.5 and has paid his/her dues for the current year. A Student/Postdoctoral member in good standing may become an Ordinary member when he/she ceases to be a bona fide student or postdoctoral fellow by payment of the dues for Ordinary membership.

2.3.5 Other Types of Membership. Membership may be instituted on the advice of the CSM Council, including but not limited to sustaining memberships or corporate memberships. Fees for such memberships will be recommended by the Executive and presented to the Council for approval.

2.4 RESIGNATION. Any member in good standing may submit his/her resignation in writing to the Secretary-Treasurer. A member who has resigned in good standing may re-assume membership by notifying the Secretary-Treasurer and paying his/her dues for the current year.

2.5 RULES OF CONDUCT, CENSURE AND EXPULSION. Any Emeritus/Emerita, Ordinary or Student/Postdoctoral member of the Society who has not paid his/her membership dues by June 30 in any year shall be removed from the mailing list of the Society. All members who are to be removed from the mailing list are notified in writing or by email by the CSM Secretariat or Secretary-Treasurer. Such persons may be reinstated if the outstanding dues are paid on or before December 31 of that year. A person wishing to be reinstated must re-apply for membership as provided in By-Law 2.3. Any member who uses the name of the Society in any way prejudicial to the Society, or who commits any act detrimental to the objects of the Society, may be censured by Council. If the utterance or act is deemed to be serious, Council may recommend to the Society at the annual general meeting that the member be expelled. If the recommendation is sustained, the offending member's name shall be struck from the rolls of the Society. The Society shall not be responsible for the utterance or act of its individual members.

3. OFFICERS AND COUNCIL

3.1 OFFICERS. The officers of the Society shall be the President, the immediate Past President, the First Vice-President, the Second Vice-President, the Secretary-Treasurer, and the Meetings Secretary. The officers of the Society together with the Postdoctoral Representative and Graduate Student Representative, shall constitute the Executive. The members of the Executive shall constitute the directors of the Society. A President shall be elected the first year. Subsequently, the First Vice-President, after serving one year in that office, shall become President for the succeeding year, and the Second Vice-President shall become First Vice-President. The Second Vice-President shall be elected annually. The Secretary-Treasurer, and the Meetings Secretary shall be elected every three years as provided in By-Law 4. The Postdoctoral Representative and Graduate Student Representative shall be elected every two years. No person may hold the office of President for a term of more than one year, but it is admissible for an individual to serve more than once as President in his/her career. The Secretary-Treasurer and the Meetings Secretary shall be eligible for re-election. The Executive shall meet once per month from September until June, in person or by teleconference.

3.2 DUTIES OF OFFICERS.

3.2.1 President. The President shall be the chief executive officer of the Society. He/she shall preside at all meetings of the Executive and of Council and at all business meetings of the Society. The President is an *ex officio* member of all Society committees and is the only person mandated to speak on behalf of the Society, unless this responsibility is delegated by the President.

3.2.2 First Vice-President. The First Vice-President shall assist in the planning of the annual conference of the Society in an advisory capacity to the Local Organizing Committee, as outlined in the Rules and Regulations. In the absence or disability of the President, he/she shall perform the duties and exercise the powers of the President, and shall perform such other duties as may be imposed upon him/her from time to time by the Executive or Council.

3.2.3 Second Vice-President. In the absence or disability of the First Vice-President, the Second Vice-President shall perform the duties of the First Vice-President, and shall perform such other duties as may be imposed upon him/her from time to time by the Executive or Council.

3.2.4 Secretary-Treasurer. The Secretary-Treasurer shall attend all meetings of the Executive and Council, and all business meetings of the Society, and shall record all votes and minutes of all proceedings. He/she shall give notice of all meetings of the Executive, Council, and Society, and shall perform the duties outlined in the By-Laws or as laid down by Council. He/she shall be the custodian of the seal of the corporation, which he/she shall deliver only when authorized by a resolution of Council to do so and to such persons as may be named in the resolution. He/she shall maintain a record of the members of the Society, its officers, councilors, committees and branches, which he/she shall periodically publish. He/she shall be responsible for receiving notices and reports from sections, committees, branches, and members of the Society and shall ensure that the notices and reports are appropriately distributed.

He/she shall receive nominations and ensure that elections are conducted as provided in By-Law 4.2. The Secretary-Treasurer shall have responsibility for the funds and securities of the Society, shall assure that full and accurate records of receipts and disbursements are kept in books accessible to the Society and its appointed auditors, and shall control the deposit of all monies and other valuable effects in the name of and to the credit of the Society as provided in By-Law 6.3 or in such depositories as may be designated by Council from time to time. He/she shall control the disbursement funds of the Society as required or as may be ordered by the Executive or Council to ensure the taking of proper vouchers for such disbursements, and shall render to Council and to the Society at its annual general meeting an account of these transactions and of the financial position of the Society. He/she shall prepare and present to Council annually a budget showing anticipated revenues and expenditures for the ensuing financial year, upon which he/she shall base a recommendation for the establishment of the dues for Ordinary and other memberships in the ensuing year. If necessary, Council may appoint one of its members to assist the Secretary-Treasurer and to carry out such of his/her duties as may be designated by Council. Council, with the approval of the Society at its annual general meeting, may appoint a commercial firm to provide, under the supervision of the Secretary-Treasurer, professional management of the Society's business affairs, as outlined in the Society's Rules and Regulations.

3.2.5 Meetings Secretary. The Meetings Secretary shall maintain a repository of information pertaining to the financial and scientific planning and operation of the annual conference. He/she shall provide abstract forms to all members of the Society and, in consultation with the First Vice-President, shall undertake the responsibility of handling the abstracts submitted and of coordinating with the Local Organizing Committee to ensure timely printing of the Program and Abstracts for each annual conference.

3.2.6 INDEMNITIES to Officers of the Society and others acting on its behalf.

(a) Every Officer of the Society or other person who has undertaken or is about to undertake any liability on behalf of the society shall from time to time and at all times, be indemnified and saved harmless out of the funds of the Society, from and against:

(b) all costs, charges and expenses which such Officer or other person sustains or incurs in or about any action, suit or proceedings which is brought, commenced or prosecuted against them in respect of any act, deed, matter of thing whatsoever, made, done or permitted by him, in or about the execution of the duties of their office or in respect of any such liability;

(c) all other costs, charges and expenses which they sustain or incur in or about or in relation to the affairs thereof, except such costs, charges or expenses as are occasioned by their own willful neglect or default.

(d) No member of the Society shall bring legal action against any Officer of the society or member of the Executive of the Society for discharging the duties of that position in good faith.

3.3 COUNCIL. Council shall consist of the members of the Executive, a number of Councilors equivalent to the number of section Chairs and Vice-Chairs which have been designated and approved by the Society, and Councilors-at-Large, representing the chairs of committees reporting to the Council and official representatives to international organizations. Councilors shall serve during their term of office in the respective positions. Council shall receive and forward to the Society at its annual general meeting reports and recommendations, and shall monitor activities of the officers, Executive, sections, committees, branches, and members. Councilors shall report the decisions, recommendations and requests of Council to the members of their respective sections.

3.4 TERM OF OFFICE. The term of office of the Executive, Councilors and Councilors-at-large shall begin and end at the close of the appropriate annual conference or as established by the Rules and Regulations.

3.5 SECTIONS. Council may recommend to the Society the establishment of such sections as may be necessary to cover the fields of interest of the membership. Each section shall be presided over by a Chair who shall be assisted by a Vice-Chair. Each member of the Society shall advise the Secretary-Treasurer of the section with which he/she wishes to be associated.

3.6 DUTIES OF SECTION OFFICERS. The Chair of each section shall preside at all meetings of the section. The Vice-Chair of each section shall assist the Chair of the section as required. In the absence or disability of the Chair, the Vice-Chair shall perform the duties of the Chair. The Chair and Vice-Chair of each section shall be members of Council and shall attend all meetings of Council during their respective terms of office. The Chair shall hold office for two years; the Vice-Chair shall also serve for two years and shall succeed the Chair to provide continuity. The section officers represent the interests of their constituents to the Executive and assist the LOC, Meetings Secretary and first Vice-President with the preparation of the scientific program for the annual conference and, in all other aspects of the Society.

4. NOMINATION AND ELECTION OF OFFICERS AND COUNCILLORS

4.1 NOMINATIONS. During the first quarter of each year, the Secretary-Treasurer will send out a call for nominations for election to open positions on the Executive and Council. This call for nominations will be posted to the Society web site, and mailed electronically to all members in good standing. The Second Vice- President shall be elected each year; section Vice Chairs, **Graduate Student Representative and Postdoctoral Representative** every two years; and the Meetings Secretary, and Secretary-Treasurer every three years. Nominations for Section Vice-Chair shall originate from within each section. All nominees must be members in good standing. All nominations, accompanied by the assurances of the nominees in writing that they are willing to serve, shall be submitted to the Secretary-Treasurer by April 1 or a later date agreed by the Executive.

4.2 ELECTION. Elections will be held using a suitable electronic ballot system, with details announced to the membership each year by electronic mail and by posting on the Society web site. Should electronic voting prove impractical in a given year, voting will be by a ballot mailed out to all members. Other issues requiring a vote of the entire membership, such as By-Law amendments (Section 11), will be voted on by the same procedure used for elections. The candidate for each office or position receiving the greatest number of votes shall be declared elected. When there is only one candidate for an office or position, the candidate will be declared elected by acclamation. If there is only one nominee for each available position, an election will not be held in that year, and all such nominees will be declared elected by acclamation. A tie vote shall be decided by the majority of Council. A three-fourths majority of votes cast by the Council shall be required for the election of a candidate to Honourary membership, as provided in By-Law 2.3.1.

4.3 VACANCIES. Vacancies between elections shall be filled by appointment by the President, but all such appointments shall terminate at the close of the next annual conference.

4.4 UNFILLED POSITIONS. If no nominees are found for any position that is normally filled by election, the President, on the advice of the Executive, will fill the position by appointment as provided in 4.3.

5. COMMITTEES

5.1 COMMITTEE STRUCTURE. The committee structure of the Society shall include statutory elected and statutory non-elected committees. Statutory committees shall be those whose establishment is required by the By-Laws. In the case of both categories of statutory committee, provision shall be made for both standing and *ad hoc* committees. Standing committees shall be those whose responsibilities or activities are of a continuing nature. *Ad hoc*

committees shall be those whose responsibilities are finite with respect to task or time. In addition to statutory committees, the President or Council may establish such non- statutory committees as may be necessary from time to time to aid in the management of the Society. Committees may establish sub-committees to undertake specific projects or tasks. The Executive shall appoint the chairs of all non-elected statutory and non-statutory committees and, in consultation with the chair, shall appoint the members of each committee, in accordance with the terms of reference of that committee as approved by Council and incorporated into the Rules and Regulations of the Society. The term of all standing committee appointments shall end at the close of the appropriate annual conference. The chair of each committee shall submit to Council and to the Society at the annual general meeting a report on the activities of the committee during the year.

5.2 NON-ELECTED STATUTORY COMMITTEES

5.2.1 Standing

5.2.1.1 CSM Murray Award Committee. The CSM Murray Award Committee shall consist of three members. One member shall be appointed by the Executive annually for a three-year term. The chair of the Committee shall be the member with the shortest time left to serve. The Committee shall be responsible for selecting a qualified recipient from among the nominees. The committee may seek outside expert advice on the evaluation of the nominees, particularly in cases where there is a potential conflict of interest with one of the committee members. Additional members recruited to aid in selecting a CSM Award winner should in the first instance be sought among former members of the committee.

5.2.1.2 Committee on Microbiology Undergraduate Education. The Committee on Microbiology Undergraduate Education shall consist of a chair and co-chair, who are appointed by the Executive for a three-year term. The chair and co-chair may add other members as required. The committee shall be responsible for initiating and scheduling the Forum on Microbiology Education (FOME), which is a workshop routinely held before or after the CSM annual scientific conference. The committee may also undertake other initiatives to promote and share impactful undergraduate teaching practices and to support current and future undergraduate microbiology educators.

5.2.1.3 Ad Hoc. The Executive reserves the right to establish *Ad Hoc* committees as necessary.

5.3 ELECTED STATUTORY COMMITTEES

5.3.1 Standing

5.3.1.1 Education and Careers Committee. The Education and Careers Committee shall consist of four or more members, including the chair or co-chairs, of whom at least two shall be Student./Postdoctoral members of the Society. The Committee shall be responsible for the administration of student awards, for liaison and co-operative activities with educational organizations, and for the organization of workshops and seminars related to profession development and careers.

5.3.1.2 Committee on Meetings, Conferences and Workshops. The Committee on Meetings, Conferences and Workshops shall consist of the chair, who is appointed by the Executive for a three-year term, and other members as required. The Committee shall be responsible for initiating and scheduling annual conferences, special scientific conferences and workshops, for initiating joint sponsorship and participation in such activities by other societies, and for initiating the organization and financing of international meetings in Canada.

6. FINANCES.

6.1 AUTHORITY. The Secretary-Treasurer will submit to the Council and the Society at the annual general meeting a Statement of Revenue & Expenses from the prior year and the current year's budget for approval.

6.2 FISCAL YEAR. The fiscal year of the Society shall be from January 1 to December 31.

6.3 ACCOUNTS. The Secretary-Treasurer shall maintain separate operating, investment and memorial trust accounts and shall not transfer funds from one account to another except as provided below.

6.3.1 Operating Account. All revenue, other than memorial donations, shall be deposited in an operating account, from which disbursements may be made by the Secretary-Treasurer as required. Monies in excess of immediate requirements may be invested in short-term securities as appropriate, or, on approval of the Executive, transferred to the investment account.

6.3.2 Investment Account. Funds set aside by the Executive or Council from time to time as a capital reserve shall be deposited in an investment account. The funds may be invested in mortgages, bonds, debentures, certificates, stocks or high interest savings and shall be managed with the approval of the Executive, in accordance with regulations pertaining to non-profit charitable organizations. Income and/or the principle from such investments may be transferred to the Operating Account as needed or, at the discretion of the Secretary-Treasurer, deposited in the investment account and reinvested.

6.3.3 Memorial Trust Account. Monies received as memorial donations or gifts shall be deposited in a memorial trust account. Such monies shall be maintained in the account as capital and shall be invested with the approval of the Executive, in accordance with regulations pertaining to non-profit charitable organizations. Income from such investments shall be used to sponsor public lectures by distinguished scientists in conjunction with the annual conference and at such other times and locations as may be appropriate, or for other purposes in support of public education as approved by Council. In the event of dissolution of the account, the remaining monies shall be donated to a registered charity or charities as selected by Council.

6.4 REVIEWS OF FINANCIAL STATEMENTS AND AUDITS.

The Executive shall ensure that the books of the Society are reviewed after the end of each year by the Secretariat and the Secretary-Treasurer. The financial statements will be presented to the membership at each annual general meeting. The books will be fully audited or reviewed (for example in the form of a "Review Engagement" or other process acceptable to government standards) by a professional auditor at least once every two years. It is recommended that this audit be carried out annually.

7. SIGNATURE AND CERTIFICATION OF DOCUMENTS

Contracts, documents or any other instruments in writing requiring the signature of the Society shall be signed by any two of: the President, the First Vice-President, the Second Vice-President, the Secretary-Treasurer, or the Meetings Secretary, and all contracts, documents and instruments in writing so signed shall be binding upon the corporation without any further authorization or formality. Council shall have power from time to time by rule or regulation to appoint an officer or officers on behalf of the Society either to sign contracts, documents or instruments in writing generally, or to sign specific contracts, documents or instruments in writing. The seal of the Society when required may be affixed to contracts, documents and instruments in writing signed as aforesaid or by any officer or officers appointed by resolution of Council.

MEETINGS AND QUORUM

7.1 ANNUAL CONFERENCE. There shall be an annual conference of the Society for the presentation of scientific papers, lectures and workshops. The annual general meeting will normally be held during the conference. At the discretion of Council, special meetings may be called. The time and location of each conference shall be established by Council at least one year in advance and announced to the Society.

7.1.1 QUORUM. Binding decisions for the Society shall be made by a simple majority of those members of the Society present at the annual general meeting. In the transaction of business by mail/email, all members shall be notified and the wish of the majority of respondents shall prevail.

7.2 COUNCIL MEETINGS. Council shall meet at least once each year, in conjunction with the annual conference. One-half of the Council, excluding those members of Council who are representatives to external organizations, shall constitute a quorum for the transaction of business.

7.3 MEETINGS OF SECTIONS. The members of each Section shall meet during the annual conference to transact section business.

8. AFFILIATED SOCIETIES

A society whose primary interest is the science of microbiology may, upon application, endorsement by Council, and acceptance by the Society at an annual general meeting, affiliate with the Canadian Society of Microbiologists - Société Canadienne des Microbiologistes. Affiliation shall in no way interfere with the autonomy of the affiliating society. An affiliated society shall have the privilege of sending a representative to meetings of Council. The representative shall have no voting privileges.

9. BRANCHES

A regional branch of the Society may be established by Council upon application by at least ten members of the Society in good standing resident in the area to be benefited. Each branch shall elect its own officers, transact business, assess dues and manage its funds, and make rules and by-laws provided they are not inconsistent with the By-Laws of the Society. Branches may include in their membership persons who are not members of the Society, but a non-member may not hold the office of President of the branch. At least ten members of the branch must be members of the Society at all times.

10. AMENDMENTS TO THE BY-LAWS

A proposed amendment to the By-Laws may be submitted to Council in writing over the signature of any five Ordinary members of the Society in good standing. The Executive may propose revisions to the By-Laws from time to time to reflect changes in operating procedures of the Society, changes in technology, and responses to changes in Government requirements. If the amendment or revision is approved by Council, it shall be discussed at the next annual general meeting. The complete text of all amendments will be provided to all members in advance of the annual general meeting. If approved by the majority present at the annual general meeting, it shall then be submitted to the entire membership for approval on the next election ballot, or earlier if deemed necessary by Council. The amendment shall be considered adopted if approved by a two-thirds majority of the members voting.

11. RULES AND REGULATIONS

Such Rules and Regulations as may be necessary for the proper management of the Society, and which are not inconsistent with the By-Laws may be proposed by the Executive, with input from the Council. The Rules and Regulations will be reviewed each year by the Executive and recommendations for any changes will be made to the Council as appropriate.

12. DISSOLUTION

The Canadian Society of Microbiologists - Société Canadienne des Microbiologistes may be dissolved on the recommendation of Council and approved by ballot of a three-fourths majority of members in good standing. Upon dissolution, the assets of the Society shall be donated to an organization or organizations registered in Canada as a non-profit, charitable organization, as selected by Council and approved by the

6. 1st Vice President Report – Ayush Kumar

Report will be presented verbally.

7. 2nd Vice President Report – Alex Ensminger

The CSM website is our society's front door to the world. A general consensus has been building at past Annual General Meetings (AGMs), Executive Meetings, and informal hallway discussions (remember those?) that it is time to systematically evaluate what our website is used for, what it does well, what can be improved, and how best to implement that change. Our overarching goal is to partner with all facets of the CSM community to build a new website that best meets their needs, highlights the important role of the society for microbiologists across Canada, and is flexible enough to respond to changes in the future. A working group has been stuck to start this process, chaired by myself, Alex Ensminger, and included Christopher Yost (Meetings Secretary), Georgina Cox (Infection and Immunity Vice Chair), Alexander Hynes (Molecular Genetics & Cellular Microbiology Vice Chair), and Stephanie Jones (Postdoc Representative). In subsequent discussions, we will be recruiting volunteers from both the Education committee and the Forum On Microbiology Education (FOME) to ensure that we meet the needs of these important groups as well.

The Society has already taken a step forward in modernizing how we interact with our members, due in large part to the pioneering spirit of last year's CSM meeting hosts at the Université de Sherbrooke. With the full implementation of Fourwaves as the registration portal and abstract management system for their conference, we have removed these complex demands upon our society's website and made the behind the scenes work of the sections and committees easier. Going forward, we plan to maintain that model and to investigate ways to migrate membership renewals to the same platform (allowing us to link membership status to the conference website).

We are currently looking through page-level usage metrics for the CSM website, but several patterns are readily apparent. First, while usage does peak in the spring (corresponding to the conference registration period), a steady stream of page views continue throughout the year. Second, our membership directory seems to be the most frequented part of the website, followed by "Studying Microbiology in Canada," and "Career opportunities." Given the distributed nature of microbiology across diverse institutions and departments in Canada, one interpretation of this might be that our society website is an important guide for those trying to identify and interface with this scattered community. A survey on website usage (current and idealized) will be distributed shortly to all our members.

While we will be reaching out to several of you in the coming weeks and months ahead for your input, please do not hesitate to contact me (alex.ensminger@utoronto.ca) with specific suggestions or to volunteer your time or expertise towards this important endeavour.

8. Past President Report –Marie Elliot

It has been an honour and a pleasure to serve as part of the CSM Executive over the last four years, and to work with such outstanding individuals within the Executive and Council, and with the phenomenal community of scientists that make up the CSM. Moving forward, I look forward to continuing to support the CSM, and hope to be able to connect with members at future conferences (in person – or virtually).

9. Secretary – Treasurer’s Report – Mohan Babu

a) 2019 - 2020 Budget

	2020 June Estimated End to Year	2019 Audited Budget	2019 June Estimated End to Year	2018 Audited Budget	2017 Audited Budget
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REVENUE SOURCES FOR OPERATIONS

Investment & Misc Income	3,340.00	3,104.00	3,055.57	3,096.47	2,162.08
Membership Fees	34,375.50	40,197.75	40,822.75	38,958.50	40,843.30
Subscriptions to the CJM	668.00	668.00	888.00	1,110.00	728.00
Advertising & Sponsorship Income	550.00	1001.98	950.00	1,025.00	650.00
Awards Support 2018 *	3,500.00	5,550.00	5,550.00	5,550.00	
Beveridge Poster Support 2018 *	-	1,500.00	1,500.00	1,500.00	
ISEME 8 Support 2018 *	-	2,500.00	2,000.00	2,100.00	
Knowles PD Award 2018 *	-	500.00	500.00	500.00	
Workshops Revenue	-		1,969.96		
Subtotal	42,433.50	55,021.73	57,236.28	53,839.97	44,383.38

REVENUE SOURCES FOR ANNUAL CONFERENCE

Awards Income	-				11,457.01
Annual Conference Exhibits and Grants & Mtg Folder	-	45,512.39	44,090.00	61,115.50	59,207.42
Annual Conference Registration including Tickets	-	168,707.24	173,079.63	146,515.51	154,601.79
Subtotal	-	214,219.63	217,169.63	207,631.01	225,266.22

TOTAL OF ALL REVENUE SOURCES	42,433.50	269,241.36	274,405.91	261,470.98	269,649.60
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EXPENDITURES FOR OPERATIONS

Website Development	1065.00	336.00	336.00	7,790.00	7,275.00
Website Maintenance	1,061.50	1,147.50	2,066.50	2,041.50	517.00
Logo / graphic design banner		-			
Secretariat	26,000.00	29,369.00	29,069.00	26,106.00	26,247.00
Audit	3,900.00	3,850.00	3,900.00	3,850.00	3,800.00
Bank & Credit Card Charges	5,078.69	5,027.49	5,507.19	8026.75	7,633.79
Balloting & Bylaws / media advisory	-				758.10
CJM Subscriptions	618.00	618.00	950.00	615.56	1,109.00
Membership in the IUMS & PAGSE	1,040.90	2,231.27	2,230.37	2,232.61	2,191.34
Liaising & Meetings (board Travel) (Zoom)	140.00	129.09			-
Teleconf, Constant Contact	1,037.16	1,075.99	1,196.00	999.46	426.47
Translation	-	500.00			225.00
Office Supplies	-	-			277.86
Office Couriers	-	-			
Office Copies	-	-			
Storage & Shredding	264.00	264.00	264.00	264.00	198.00
Office Postage	-	-			
Taxes & Miscellaneous	32.00	-	20.00	20.00	23.70
CSM Travel Awards**	-	5,000.00	5,000.00	5,000.00	
Under Graduate, Ambassador & ISME 8 Travel Awards	5,500.00	4,700.00	6,000.00	5,928.87	3,795.91
Armand Frappier, Thermo Fisher and Murray Awards	4,500.00	4,988.88	5,000.00	4,228.19	-
Student symposium & Travel Awards	-	4,000.00	4,500.00	4,224.99	-
Poster Awards	-	1,500.00	1,500.00	1,500.00	-
Knowles PD Prize	-	500.00	500.00	500.00	
Awards Supplies	250.00	680.89	700.00	686.97	
Education & Careers Committee	-	-	2,500.00	325.75	329.70
FOME	-	-	1,500.00		1,323.92
Student Day Support	1,000.00	2,280.00	2,000.00	1,250.00	6,050.00
Oher Meetings Support *****	2,000.00	2,000.00	3,000.00		
Disbursement to Genome Alberta 2018****				11,324.33	
Subtotal	53,487.25	70,198.11	77,739.06	86,914.98	62,181.79

EXPENDITURES FOR ANNUAL CONFERENCE

Annual Conference Expenses Facility, AV, Food & Bev, signage, equipment rental	-	111,161.73	114,205.00	91,184.66	105,481.59
Executive & Council meeting food & Beverage (included above)	-		830.00		
Program Book, Poster Printing & Mail out	-	21.92		2,701.20	4,723.00
Meeting Planner Services	-	-	6,600.00	30,454.43	28,673.00
Speakers Expenses	-	13,974.30	34,118.25	14,832.06	9,187.80
Meeting Supplies (Bags), Frames & Labour	-	19,382.80	20,250.00	15,734.05	12,791.22
Awards - Armand Frappier	-				1,895.60
Awards - Fisher	-				1,500.00
Awards - CSM Murray	-				1,500.00
Rogers Knowles PD Prize	-				500.00
Awards - Beveridge Student Poster Awards	-				1,500.00
Awards - CSM Travel Awards (St Symp & travel)	-				3,416.72
Credit Card discount fees	-	10,748.42		4,069.94	4,625.22
Website & Alerts	-	2,159.25	2,054.25	2,002.50	3,921.50
Board Travel & Other	-	1,590.82	1,300.00	353.61	259.00
Subtotal	-	159,039.24	179,357.50	161,332.45	179,974.65
TOTAL OF ALL EXPENDITURES	53,487.25	229,237.35	257,096.56	248,247.43	242,156.44
SURPLUS (DEFICIT)	(11,053.75)	40,004.01	17,309.35	13,223.55	27,493.16
Net conference Profit ***	-	55,180.39	37,812.13	46,298.56	45,291.57
Disbursement to LOC	-	17,590.16		10,649.28	10,146.00

Notes to Budget:

* Since CSM has increased the number of awards it provides, which could have its toll on the Conference budget, the 2018 Conference Chairs requested that the awards budget becomes part of CSM operating budget and not the conference. **Since 2018 all the awards expenses are part of the CSM Operating budget.**

** CSM added in **2018 twenty travel awards \$250 ea. for a total of \$5,000.**

*** The awards revenue and expenses are no longer part of the Conference budget. There is \$1,550 extra cost from the awards that were normally covered under the conference that are not covered by the available sponsorship funds. The ambassador and undergraduate awards have been part of the CSM operating budget since 2013.

**** In 2018 The AMR & Plant Vaccine Workshops' funds were transferred from CSM to Genome Alberta who hosted the event to pay for facility deposit.

***** **In 2019 CSM allocated \$3,000 in the budget for a new initiative to support CSM Members' Events and allocated \$2,000 for Student research day events which it has been supporting.**

As of **June 11, 2020**, CSM **Investment** account balance is **\$272,678.57** and **Chequing** account balance is: **\$59,450**. **Tangerine was offering 1.80% interest for GICs to be locked for 270 days. In March 2020, \$100,000 were moved from Saving account to GIC and in April 2020, another \$100,000 were moved from Savings account to GIC.**

Any revenue received for 2020 U of G Conference and expenses paid in 2020 for the U of G conference will be moved to 2021 Conference revenue and expenses. The revenue will be considered Deferred revenue in 2020 and the expenses will be considered prepaid expenses in 2020. This is because the conference has been postponed to 2021. For that reason there are no amounts entered in the 2020 Annual Conference Revenue and Expenses columns.

- 9. Secretary's Treasurer's Report cont'd**
b) 2019 Financial Statements Audited by Andrea Poole, CA

Canadian Society of Microbiologists
Financial Statements
December 31, 2019

June 16, 2020

Board of Directors
Canadian Society of Microbiologists
17 Dossetter Way
Ottawa, Ontario K1G 4S3

Dear Members of the Board:

The objective of my audit was to express an opinion on the financial statements. My audit was not designed for the purpose of identifying matters to communicate. Accordingly, my audit would not identify all such matters that may be of interest to management and it is inappropriate to conclude that no such matters exist.

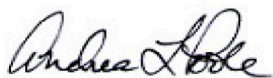
During the course of my audit of Canadian Society of Microbiologists for the year ended December 31, 2019, I did not identify any of the following matters: misstatements, other than trivial errors; fraud; misstatements that may cause future financial statements to be materially misstated; illegal or possibly illegal acts; or, material weaknesses in internal control.

I would like to thank Wafaa Antonious for her assistance during my audit.

This communication is prepared solely for the information of the Board of Directors and is not intended for any other purpose. I accept no responsibility to a third party who uses this communication.

Should you wish to discuss these matters any further, please do not hesitate to contact my office.

Sincerely,



Andrea Poole, CPA, CA

Independent Auditor's Report

To the Members of
Canadian Society of Microbiologists

Opinion

I have audited the financial statements of Canadian Society of Microbiologists, which comprise the statement of financial position as at December 31, 2019, and the statements of operations and changes in net assets and cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In my opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the organization as at December 31, 2019, and its results of operations and its cash flows for the year then ended in accordance with ASNPO.

Basis for Opinion

I conducted my audit in accordance with Canadian generally accepted auditing standards. My responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of my report. I am independent of the organization in accordance with the ethical requirements that are relevant to my audit of the financial statements in Canada, and I have fulfilled my other ethical responsibilities in accordance with these requirements. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with ASNPO, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the organization's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the organization or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the organization's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

My objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements. As part of an audit in accordance with Canadian generally accepted auditing standards, I exercise professional judgment and maintain professional skepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

Independent Auditor's Report, continued

- ♦ Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the organization's internal control.
- ♦ Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- ♦ Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the organization's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the organization to cease to continue as a going concern.
- ♦ Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

I communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

Numeris CPA

Numeris CPA Professional Corporation
Chartered Professional Accountant
Licensed Public Accountant

Ottawa, ON
June 16, 2020

Canadian Society of Microbiologists
Statement of Financial Position
As at December 31, 2019

	2019	2018
Assets		
Current		
Cash	\$ 13,510	\$ 7,637
Short term investment	272,031	279,087
Accounts receivable	57,680	26,146
Prepaid expenses	3,870	-
Government remittances receivable	<u>1,808</u>	<u>1,408</u>
	<u>\$ 348,899</u>	<u>\$ 314,278</u>
Liabilities		
Current		
Accounts payable and accrued liabilities	\$ 46,136	\$ 29,594
Deferred revenue (note 3)	<u>67,393</u>	<u>71,728</u>
	113,529	101,322
Balance	<u>235,370</u>	<u>212,956</u>
	<u>\$ 348,899</u>	<u>\$ 314,278</u>

On behalf of the Board

_____ Member

_____ Member

**Canadian Society of Microbiologists
Statement of Operations
and Changes in Net Assets
Year ended December 31, 2019**

	2019	2018
Revenues		
Annual conference, Schedule 1	\$ 55,180	\$ 46,299
Memberships - individual	40,198	38,959
Awards support	10,050	9,650
Interest income	3,104	3,096
Advertising and job postings	1,002	1,025
Subscription fees for CJM	668	1,110
	110,202	100,139
Expenditures		
Secretariat	29,369	26,106
Awards	25,650	23,319
Interest and bank charges	5,027	8,027
Professional fees	3,850	3,850
Memberships in other organizations	2,231	2,233
Liaising and advocacy	1,705	999
Website	1,484	9,832
CJM subscriptions	618	616
Office	264	264
Education, career and FOME committee	-	326
Miscellaneous	-	20
	70,198	75,592
Excess of revenues over expenditures before extraordinary items	40,004	24,547
Disbursement to conference organizing committee	17,590	10,649
Disbursement to Genome Alberta	-	11,324
Excess of revenues over expenditures	22,414	2,574
Balance		
As previously stated	212,956	211,382
Prior period adjustment	-	(1,000)
Balance, as restated	212,956	210,382
Balance, end of year	\$ 235,370	\$ 212,956

Canadian Society of Microbiologists
Statement of Cash Flows
Year ended December 31, 2019

This Statement reflects the difference in numbers between one year and the previous one.

	2019	2018
Operating activities		
Excess of revenues over expenditures	\$ 22,414	\$ 2,574
Adjustment for		
Prior period adjustment	-	(1,000)
	22,414	1,574
Change in non-cash working capital items		
Short term investment	7,056	(12,946)
Accounts receivable	(31,534)	(15,842)
Prepaid expenses	(3,870)	5,177
Government remittances receivable	(400)	1,437
Accounts payable and accrued liabilities	16,542	11,833
Deferred revenue	(4,335)	718
Net increase (decrease) in cash	5,873	(8,049)
Cash, beginning of year	7,637	15,686
Cash, end of year	\$ 13,510	\$ 7,637

1. Nature of operations

The Canadian Society of Microbiologists was incorporated without share capital in 1958 under Part II of the Canada Corporations Act and is recognized as a not-for-profit organization for income tax purposes. The Society seeks to advance microbiology in all its aspects and to facilitate the interchange of ideas between microbiologists. The membership includes honorary, emeritus, ordinary, student, and post doc members.

2. Significant accounting policies

The organization applies the Canadian accounting standards for not-for-profit organizations.

(a) Revenue recognition

The organization follows the deferral method of accounting for contributions. Restricted contributions are recognized as revenue in the year in which the related expenditures are incurred. Unrestricted contributions are recognized as revenue when received or receivable when the amount to be received can be reasonably estimated and collection is reasonably assured.

Other revenue, including membership and conference, is recognized in operations as the services are rendered.

Investment revenue is recognized as earned.

(b) Capital assets

Capital assets purchased at a cost of less than \$2,000 are expensed in the year of purchase. The Society does not own capital assets at this time.

(c) Financial instruments

The organization's financial instruments consist of cash, accounts receivable, accounts payable and accrued liabilities. Unless otherwise noted it is management's opinion that the organization is not exposed to significant interest, currency or credit risks.

(d) Use of estimates

The preparation of financial statements in conformity with Canadian accounting standards for not-for-profit organizations requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the balance sheet date and the reported amounts of revenues and expenses during the year. Actual results could differ from those estimates.

Canadian Society of Microbiologists
Notes to the Financial Statements
December 31, 2019

3. Deferred revenue

Beveridge Funds

In 2013 \$21,325 was transferred to the CSM from the Beveridge Memorial Scholarship Fund in order to support the Beveridge Poster Competition. Three prizes of \$500 will be awarded annually until the funds are depleted.

ISME-8 Funds

In 2013 \$50,000 was transferred to the CSM from the ACSME as part of the winding up of the ISME-8 conference surplus funds. The use of these funds is restricted by Terms of Reference agreed to by the CSM with a maximum annual disbursement of \$4,000.

Roger Knowles Funds

In 2017 funds were transferred from alumni of Roger Knowles' laboratory and the CSM in order to establish a memorial award. The use of these funds is restricted and will support a prize of \$500 to be given to the best oral presentation at the Post Doctoral Research Symposium at the CSM Annual Conference. The prize will be awarded annually until the funds are depleted.

	2019	2018
ISME 8 Funds	\$ 36,230	\$ 38,730
Beveridge Scholarship	10,824	12,324
Deferred Membership	10,775	12,090
Roger Knowles Award	7,864	8,364
Deffered Revenue - annual meeting	1,500	-
CJM Subscription Fees for Next Year	200	220
Return Back to Statement of Financial Position	\$ 67,393	\$ 71,728

4. Awards

	2019	2018
PD & Student Symposia Awards	\$ 5,181	\$ 5,412
CSM Travel Awards	5,000	5,000
AF, Fisher, & Murray Awards	4,989	4,228
Undergrad, Ambassador, & Travel Awards	4,700	5,929
Students Research Day & members' events	4,280	1,250
Student Poster Awards	1,500	1,500
	\$ 25,650	\$ 23,319

5. Prior period adjustment

In 2018 an additional payment of \$1,000 was made to the 2017 conference local organizing committee.

Schedule 1
Canadian Society of Microbiologists
Schedule of Annual Conference
Year ended December 31, 2019

	2019	2018
Revenue		
Registration fees	\$ 168,708	\$ 146,515
Exhibits and other commercial support	25,801	22,500
Grants	19,641	38,616
Miscellaneous	70	-
	214,220	207,631
Expenditures		
Facility	111,163	91,184
Conference supplies and other	19,405	15,734
Speakers	13,974	14,832
Credit card discount	10,748	4,070
Website and alerts	2,159	2,003
Board travel	1,591	354
Planner	-	30,454
Program book	-	2,701
	159,040	161,332
Excess of revenues over expenditures	\$ 55,180	\$ 46,299

[Return back to Statement of Operations](#)

9. Secretary's Treasurer's Report – Mohan Babu

d Membership Report

As of 11 June, 2020

	2020 Total	2020 Renew	2020 New	2019 Total	2019 Renew	2019 New	2018 Total	2018 Renew	2018 New	2017 Total	2017 Renew	2017 New
Ordinary	273	252	21	336	283	53	316	254	62	312	252	65
Student	146	112	34	316	110	206	265	103	162	290	131	162
Post-Doc	48	40	8	73	51	22	71	52	19	77	50	28
Emeritus	19	19	0	20	19	1	20	19	1	17	14	3
Honorary	4	4	0	4	4	0	3	3	0	3	3	0
Total	490	427	63	749	467	282	675	431	244	708	450	258

Please note:

2019 has 41 more members than 2017 which is now the second highest membership number. 2019 has the highest total for regular membership (336) and renewed (283), highest Student membership (316) and new (206). It seems that the PD membership varies between 71 (2018) – 78 (2016).

2 Years Plan

	2020	2019	2018
Ordinary	100	85	117
Student	33	54	43
Post-Doc	15	24	21
Emeritus	9	4	6
Total	157	167	187

Non Paid Members

	2019	2018	2017	Total
Ordinary	100	51	43	194
Student	209	156	150	515
Post-Doc	33	25	23	81
Emeritus	3	4	2	9
Total	345	236	218	799

Please note that records of members who have not renewed from 2017 will be deleted at the end of 2020.

A short historical timeline of year-end membership totals follows:

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
New Mmb	63	282	244	258	292	106	79	207	109	107	239	268	131
Renewed Mmb	427	467	431	450	386	306	391	332	371	364	345	213	274
Total Mmb	490	749	675	708	678	412	470	539	480	471	584	481	405

Province/Country	2017	2018	2019	2020	Section	2017	2018	2019	2020
Alberta	37	49	57	35	AEM	270	269	289	187
British Columbia	43	50	42	37	II	184	197	204	144
Manitoba	45	111	54	33	MGCM	254	209	256	159
New Brunswick	6	6	3	2	Unspecified	0	0	0	
Newfoundland	9	14	5	5	Total	708	675	749	490
Nova Scotia	17	15	10	11					
Ontario	357	217	277	200					
PEI	2	2	1	1					
Quebec	86	84	199	88					
Saskatchewan	46	60	55	38					
USA	25	32	20	18					
Overseas	32	28	25	22					
Total Members	708	668	749	490					

9. Secretary's Treasurer's Report

e) CSM Website Report

Pages

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1 Jan 2019 - 31 Dec 2019

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Page Title	Page Views	Unique Page Views	Avg. Time on Page	Entrances	Bounce Rate	% Exit	Page Value
	112,935 % of Total: 100.00% (112,935)	91,430 % of Total: 100.00% (91,430)	00:01:14 Avg for View: 00:01:14 (0.00%)	41,208 % of Total: 100.00% (41,208)	58.87% Avg for View: 58.87% (0.00%)	36.49% Avg for View: 36.49% (0.00%)	US\$0.00 % of Total: 0.00% (US\$0.00)
1. Canadian Society of Microbiologists - Member Directory	22,797 (20.19%)	19,533 (21.36%)	00:00:24	3,252 (7.89%)	75.74%	15.19%	US\$0.00 (0.00%)
2. Canadian Society of Microbiologists - Studying Microbiology in Canada	17,825 (15.78%)	13,406 (14.66%)	00:01:54	6,648 (16.13%)	51.35%	35.74%	US\$0.00 (0.00%)
3. Canadian Society of Microbiologists - Career Opportunities	14,003 (12.40%)	11,212 (12.26%)	00:01:21	5,800 (14.07%)	62.28%	45.60%	US\$0.00 (0.00%)
4. Canadian Society of Microbiologists - Upcoming Conference - 2019 CSM Annual Conference	11,134 (9.86%)	9,196 (10.06%)	00:02:38	6,138 (14.90%)	73.84%	66.61%	US\$0.00 (0.00%)
5. The Canadian Society of Microbiologists - Home	9,945 (8.81%)	8,663 (9.48%)	00:01:05	7,811 (18.96%)	43.75%	42.47%	US\$0.00 (0.00%)
6. Canadian Society of Microbiologists - Meet the Scientist	4,464 (3.95%)	3,518 (3.85%)	00:00:57	373 (0.91%)	59.52%	14.94%	US\$0.00 (0.00%)
7. Canadian Society of Microbiologists - Apply Now	2,738 (2.42%)	2,254 (2.47%)	00:03:16	435 (1.06%)	69.66%	43.17%	US\$0.00 (0.00%)
8. Canadian Society of Microbiologists - Upcoming Conferences	2,116 (1.87%)	1,834 (2.01%)	00:00:32	1,527 (3.71%)	27.64%	32.99%	US\$0.00 (0.00%)
9. Canadian Society of Microbiologists - Renew Membership	1,969 (1.74%)	1,531 (1.67%)	00:01:18	455 (1.10%)	23.74%	27.07%	US\$0.00 (0.00%)
10. Canadian Society of Microbiologists - CSM Awards	1,615 (1.43%)	1,339 (1.46%)	00:02:34	850 (2.06%)	73.29%	57.65%	US\$0.00 (0.00%)
11. Canadian Society of Microbiologists - Registrants - Poster Presentation & Competition	1,419 (1.26%)	1,216 (1.33%)	00:01:46	423 (1.03%)	74.94%	46.02%	US\$0.00 (0.00%)
12. Canadian Society of Microbiologists - Applied + Environmental Microbiology	1,293 (1.14%)	842 (0.92%)	00:00:58	230 (0.56%)	57.83%	23.67%	US\$0.00 (0.00%)
13. La Société Canadienne des Microbiologistes - Étudier la microbiologie au Canada	1,240 (1.10%)	993 (1.09%)	00:02:16	670 (1.63%)	67.16%	52.02%	US\$0.00 (0.00%)
14. Canadian Society of Microbiologists - Upcoming Conference - 2020 CSM Annual Conference	1,165 (1.03%)	922 (1.01%)	00:01:55	443 (1.08%)	73.14%	56.39%	US\$0.00 (0.00%)
15. Canadian Society of Microbiologists - Past Conferences	1,141 (1.01%)	465 (0.51%)	00:00:35	115 (0.28%)	24.35%	20.77%	US\$0.00 (0.00%)
16. Canadian Society of Microbiologists - Join Us	828 (0.73%)	637 (0.70%)	00:00:56	185 (0.45%)	29.73%	21.74%	US\$0.00 (0.00%)
17. Canadian Society of Microbiologists - Registrants - Student Symposium Competition	826 (0.73%)	719 (0.79%)	00:02:56	235 (0.57%)	74.04%	48.06%	US\$0.00 (0.00%)
18. Canadian Society of Microbiologists - Infection and Immunity	794 (0.70%)	570 (0.62%)	00:00:41	84 (0.20%)	53.57%	19.02%	US\$0.00 (0.00%)
19. Canadian Society of Microbiologists - -	750 (0.66%)	594 (0.65%)	00:00:54	461 (1.12%)	44.69%	41.47%	US\$0.00 (0.00%)
20. La Société Canadienne des Microbiologistes - Microbiologie appliquée et de l'environnement	731 (0.65%)	602 (0.66%)	00:02:50	532 (1.29%)	84.96%	72.50%	US\$0.00 (0.00%)

21. Canadian Society of Microbiologists - CSM & Microbiology	680 (0.60%)	567 (0.62%)	00:01:11	312 (0.76%)	78.21%	47.06%	US\$0.00 (0.00%)
22. La Société Canadienne des Microbiologistes - Répertoire des membres	649 (0.57%)	573 (0.63%)	00:00:47	230 (0.56%)	80.87%	34.98%	US\$0.00 (0.00%)
23. Canadian Society of Microbiologists - Molecular Genetics + Cellular Microbiology	629 (0.56%)	463 (0.51%)	00:01:04	122 (0.30%)	54.10%	26.87%	US\$0.00 (0.00%)
24. Canadian Society of Microbiologists - Registrants - Postdoctoral Research Symposium	613 (0.54%)	525 (0.57%)	00:00:55	67 (0.16%)	58.21%	24.31%	US\$0.00 (0.00%)
25. Canadian Society of Microbiologists - Facts	560 (0.50%)	429 (0.47%)	00:00:53	55 (0.13%)	61.82%	23.04%	US\$0.00 (0.00%)

Rows 1 - 25 of 194

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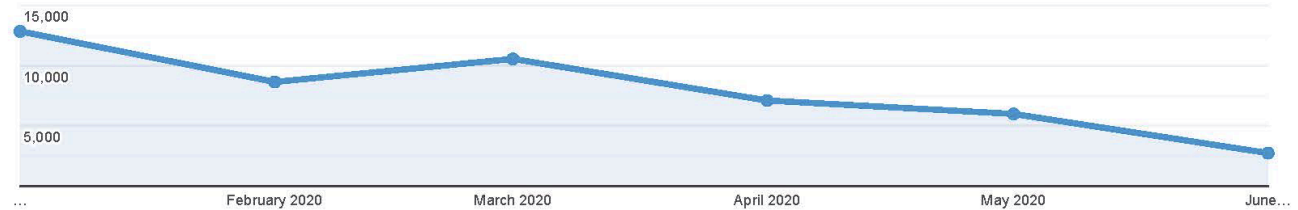
Pages

1 Jan 2020 - 11 Jun 2020

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Page Views



Page Title	Page Views	Unique Page Views	Avg. Time on Page	Entrances	Bounce Rate	% Exit	Page Value
	47,894 % of Total: 100.00% (47,894)	38,028 % of Total: 100.00% (38,028)	00:01:17 Avg for View: 00:01:17 (0.00%)	17,340 % of Total: 100.00% (17,340)	59.35% Avg for View: 59.35% (0.00%)	36.20% Avg for View: 36.20% (0.00%)	US\$0.00 % of Total: 0.00% (US\$0.00)
1. Canadian Society of Microbiologists - Member Directory	10,531 (21.99%)	8,676 (22.81%)	00:00:33	2,220 (12.80%)	81.35%	21.84%	US\$0.00 (0.00%)
2. Canadian Society of Microbiologists - Career Opportunities	6,826 (14.25%)	5,324 (14.00%)	00:01:14	2,342 (13.51%)	61.49%	40.38%	US\$0.00 (0.00%)
3. Canadian Society of Microbiologists - Studying Microbiology in Canada	6,781 (14.16%)	5,178 (13.62%)	00:01:43	2,736 (15.78%)	52.52%	38.22%	US\$0.00 (0.00%)
4. Canadian Society of Microbiologists - Upcoming Conference - 2020 CSM Annual Conference	4,133 (8.63%)	3,438 (9.04%)	00:02:39	2,323 (13.40%)	74.47%	66.80%	US\$0.00 (0.00%)
5. The Canadian Society of Microbiologists - Home	3,911 (8.17%)	3,369 (8.86%)	00:00:56	3,076 (17.74%)	33.36%	33.88%	US\$0.00 (0.00%)
6. Canadian Society of Microbiologists - Meet the Scientist	1,764 (3.68%)	1,369 (3.60%)	00:00:57	178 (1.03%)	61.80%	16.61%	US\$0.00 (0.00%)
7. Canadian Society of Microbiologists - Renew Membership	1,496 (3.12%)	1,168 (3.07%)	00:01:16	372 (2.15%)	20.16%	28.21%	US\$0.00 (0.00%)
8. Canadian Society of Microbiologists - Apply Now	1,069 (2.23%)	883 (2.32%)	00:02:47	149 (0.86%)	65.77%	43.50%	US\$0.00 (0.00%)
9. Canadian Society of Microbiologists - CSM Awards	844 (1.76%)	734 (1.93%)	00:03:02	478 (2.76%)	77.20%	65.40%	US\$0.00 (0.00%)
10. La Société Canadienne des Microbiologistes - Étudier la microbiologie au Canada	639 (1.33%)	484 (1.27%)	00:02:18	303 (1.75%)	70.96%	46.95%	US\$0.00 (0.00%)
11. Canadian Society of Microbiologists - Past Conferences	549 (1.15%)	188 (0.49%)	00:01:01	61 (0.35%)	45.90%	22.04%	US\$0.00 (0.00%)
12. Canadian Society of Microbiologists - Registrants - Poster Presentation & Competition	530 (1.11%)	430 (1.13%)	00:02:01	113 (0.65%)	64.60%	34.15%	US\$0.00 (0.00%)
13. (not set)	433 (0.90%)	228 (0.60%)	00:08:22	218 (1.26%)	47.25%	50.35%	US\$0.00 (0.00%)
14. Canadian Society of Microbiologists - Award Winners	430 (0.90%)	342 (0.90%)	00:02:13	261 (1.51%)	78.16%	61.63%	US\$0.00 (0.00%)
15. Canadian Society of Microbiologists - Applied + Environmental Microbiology	424 (0.89%)	267 (0.70%)	00:00:44	47 (0.27%)	57.45%	21.23%	US\$0.00 (0.00%)
16. Canadian Society of Microbiologists - Join Us	417 (0.87%)	320 (0.84%)	00:01:05	117 (0.67%)	32.48%	22.30%	US\$0.00 (0.00%)
17. Canadian Society of Microbiologists - Registrants - Student Symposium Competition	415 (0.87%)	358 (0.94%)	00:01:47	145 (0.84%)	62.76%	44.82%	US\$0.00 (0.00%)
18. Canadian Society of Microbiologists - CSM & Microbiology	393 (0.82%)	296 (0.78%)	00:01:29	141 (0.81%)	82.27%	40.46%	US\$0.00 (0.00%)
19. Canadian Society of Microbiologists - Infection and Immunity	383 (0.80%)	249 (0.65%)	00:00:39	34 (0.20%)	67.65%	20.63%	US\$0.00 (0.00%)
20. Canadian Society of Microbiologists - The World of Microbiology	291 (0.61%)	226 (0.59%)	00:00:32	46 (0.27%)	84.78%	21.99%	US\$0.00 (0.00%)

21.	Canadian Society of Microbiologists - Molecular Genetics + Cellular Microbiology	249 (0.52%)	169 (0.44%)	00:00:53	39 (0.22%)	51.28%	19.28%	US\$0.00 (0.00%)
22.	La Société Canadienne des Microbiologistes - Microbiologie appliquée et de l'environnement	245 (0.51%)	221 (0.58%)	00:02:14	202 (1.16%)	86.14%	78.37%	US\$0.00 (0.00%)
23.	Canadian Society of Microbiologists - -	236 (0.49%)	197 (0.52%)	00:00:45	170 (0.98%)	29.41%	33.05%	US\$0.00 (0.00%)
24.	Canadian Society of Microbiologists - Executive	236 (0.49%)	193 (0.51%)	00:02:58	57 (0.33%)	73.68%	50.85%	US\$0.00 (0.00%)
25.	Canadian Society of Microbiologists - Facts	233 (0.49%)	189 (0.50%)	00:01:09	36 (0.21%)	63.89%	27.04%	US\$0.00 (0.00%)

Rows 1 - 25 of 152

© 2020 Google

Location

1 Jan 2019 - 31 Dec 2019

All Users
100.00% Users

Map Overlay

Summary



Country	Users	Users
	24,504 % of Total: 100.00% (24,504)	24,504 % of Total: 100.00% (24,504)
1. Canada	11,958	48.32%
2. India	2,551	10.31%
3. United States	2,160	8.73%
4. Nigeria	815	3.29%
5. China	457	1.85%
6. France	451	1.82%
7. Costa Rica	387	1.56%
8. United Kingdom	377	1.52%
9. Algeria	352	1.42%
10. Japan	312	1.26%
11. Pakistan	311	1.26%
12. Germany	242	0.98%
13. Bangladesh	233	0.94%
14. South Korea	192	0.78%
15. Iran	179	0.72%
16. Brazil	167	0.67%
17. Saudi Arabia	133	0.54%
18. Tunisia	128	0.52%
19. Morocco	125	0.51%
20. South Africa	124	0.50%
21. Cameroon	116	0.47%
22. Nepal	115	0.46%
23. Egypt	106	0.43%
24. United Arab Emirates	103	0.42%
25. Philippines	102	0.41%

Rows 1 - 25 of 170

Location

1 Jan 2020 - 11 Jun 2020

All Users
100.00% Users

Map Overlay

Summary



Country	Users	Users
	11,602 % of Total: 100.00% (11,602)	11,602 % of Total: 100.00% (11,602)
1. Canada	6,301	54.18%
2. India	1,014	8.72%
3. United States	918	7.89%
4. Nigeria	351	3.02%
5. France	254	2.18%
6. Germany	217	1.87%
7. United Kingdom	169	1.45%
8. China	152	1.31%
9. Algeria	122	1.05%
10. Tunisia	114	0.98%
11. Pakistan	107	0.92%
12. Japan	96	0.83%
13. Bangladesh	93	0.80%
14. South Korea	75	0.64%
15. Iran	63	0.54%
16. Mexico	62	0.53%
17. Brazil	61	0.52%
18. Spain	53	0.46%
19. Cameroon	47	0.40%
20. Philippines	46	0.40%
21. Thailand	44	0.38%
22. South Africa	43	0.37%
23. United Arab Emirates	42	0.36%
24. Saudi Arabia	42	0.36%
25. Netherlands	40	0.34%

Rows 1 - 25 of 136

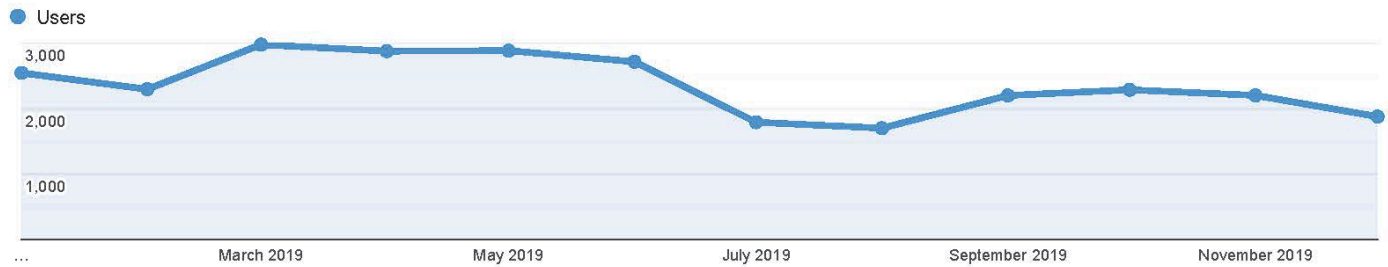
Browser & OS

1 Jan 2019 - 31 Dec 2019

All Users
100.00% Users

Explorer

Summary



Browser	Acquisition			Behaviour			Conversions		
	Users	New Users	Sessions	Bounce Rate	Pages/Session	Avg. Session Duration	Goal Conversion Rate	Goal Completions	Goal Value
	24,504 % of Total: 100.00% (24,504)	24,113 % of Total: 100.00% (24,113)	41,208 % of Total: 100.00% (41,208)	58.87% Avg for View: 58.87% (0.00%)	2.74 Avg for View: 2.74 (0.00%)	00:02:09 Avg for View: 00:02:09 (0.00%)	0.00% Avg for View: 0.00% (0.00%)	0 % of Total: 0.00% (0)	US\$0.00 % of Total: 0.00% (US\$0.00)
1. Chrome	14,341 (58.33%)	14,100 (58.47%)	24,741 (60.04%)	57.33%	3.02	00:02:24	0.00%	0 (0.00%)	US\$0.00 (0.00%)
2. Safari	5,103 (20.76%)	4,988 (20.69%)	8,294 (20.13%)	62.96%	2.02	00:01:29	0.00%	0 (0.00%)	US\$0.00 (0.00%)
3. Firefox	1,929 (7.85%)	1,883 (7.81%)	3,429 (8.32%)	52.81%	2.96	00:02:33	0.00%	0 (0.00%)	US\$0.00 (0.00%)
4. Internet Explorer	1,032 (4.20%)	1,012 (4.20%)	1,409 (3.42%)	60.61%	2.70	00:01:44	0.00%	0 (0.00%)	US\$0.00 (0.00%)
5. Edge	554 (2.25%)	532 (2.21%)	1,041 (2.53%)	51.30%	2.50	00:01:58	0.00%	0 (0.00%)	US\$0.00 (0.00%)
6. Samsung Internet	432 (1.76%)	425 (1.76%)	710 (1.72%)	67.89%	2.14	00:01:46	0.00%	0 (0.00%)	US\$0.00 (0.00%)
7. Android Webview	318 (1.29%)	312 (1.29%)	407 (0.99%)	75.18%	2.53	00:02:01	0.00%	0 (0.00%)	US\$0.00 (0.00%)
8. Safari (in-app)	236 (0.96%)	229 (0.95%)	280 (0.68%)	87.86%	1.29	00:00:19	0.00%	0 (0.00%)	US\$0.00 (0.00%)
9. UC Browser	192 (0.78%)	191 (0.79%)	220 (0.53%)	86.36%	1.36	00:00:38	0.00%	0 (0.00%)	US\$0.00 (0.00%)
10. Opera	176 (0.72%)	172 (0.71%)	314 (0.76%)	58.92%	3.24	00:03:03	0.00%	0 (0.00%)	US\$0.00 (0.00%)

Rows 1 - 10 of 22

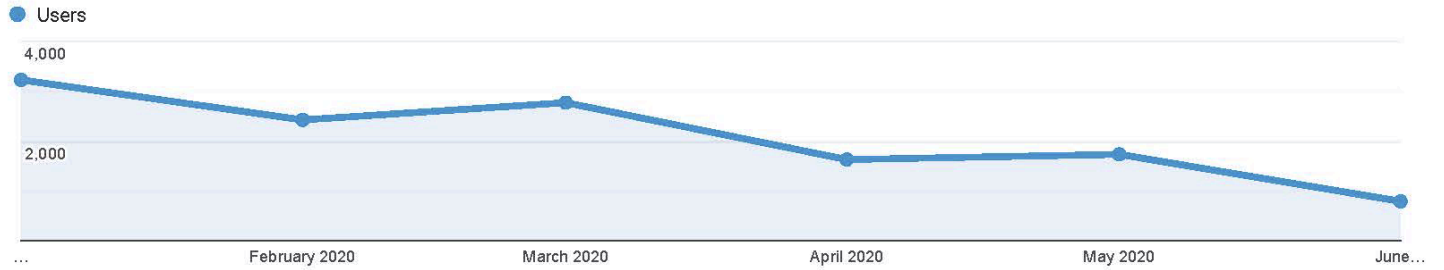
Browser & OS

1 Jan 2020 - 11 Jun 2020

All Users
100.00% Users

Explorer

Summary



Browser	Acquisition			Behaviour			Conversions		
	Users	New Users	Sessions	Bounce Rate	Pages/Session	Avg. Session Duration	Goal Conversion Rate	Goal Completions	Goal Value
	11,602 % of Total: 100.00% (11,602)	11,177 % of Total: 100.00% (11,177)	17,340 % of Total: 100.00% (17,340)	59.35% Avg for View: 59.35% (0.00%)	2.76 Avg for View: 2.76 (0.00%)	00:02:16 Avg for View: 00:02:16 (0.00%)	0.00% Avg for View: 0.00% (0.00%)	0 % of Total: 0.00% (0)	US\$0.00 % of Total: 0.00% (US\$0.00)
1. Chrome	6,749 (58.23%)	6,498 (58.14%)	10,409 (60.03%)	57.44%	2.93	00:02:30	0.00%	0 (0.00%)	US\$0.00 (0.00%)
2. Safari	2,697 (23.27%)	2,650 (23.71%)	3,798 (21.90%)	64.93%	2.04	00:01:25	0.00%	0 (0.00%)	US\$0.00 (0.00%)
3. Firefox	789 (6.81%)	734 (6.57%)	1,276 (7.36%)	50.71%	4.34	00:03:28	0.00%	0 (0.00%)	US\$0.00 (0.00%)
4. Edge	312 (2.69%)	296 (2.65%)	508 (2.93%)	54.53%	2.66	00:02:09	0.00%	0 (0.00%)	US\$0.00 (0.00%)
5. Internet Explorer	227 (1.96%)	209 (1.87%)	289 (1.67%)	53.98%	2.71	00:02:16	0.00%	0 (0.00%)	US\$0.00 (0.00%)
6. Android Webview	181 (1.56%)	173 (1.55%)	208 (1.20%)	77.40%	1.54	00:01:13	0.00%	0 (0.00%)	US\$0.00 (0.00%)
7. Samsung Internet	178 (1.54%)	165 (1.48%)	268 (1.55%)	60.82%	2.67	00:03:02	0.00%	0 (0.00%)	US\$0.00 (0.00%)
8. UC Browser	174 (1.50%)	174 (1.56%)	178 (1.03%)	93.26%	1.23	00:00:33	0.00%	0 (0.00%)	US\$0.00 (0.00%)
9. Safari (in-app)	105 (0.91%)	102 (0.91%)	114 (0.66%)	82.46%	1.32	00:00:21	0.00%	0 (0.00%)	US\$0.00 (0.00%)
10. Opera	70 (0.60%)	68 (0.61%)	162 (0.93%)	49.38%	2.42	00:02:20	0.00%	0 (0.00%)	US\$0.00 (0.00%)

Rows 1 - 10 of 20

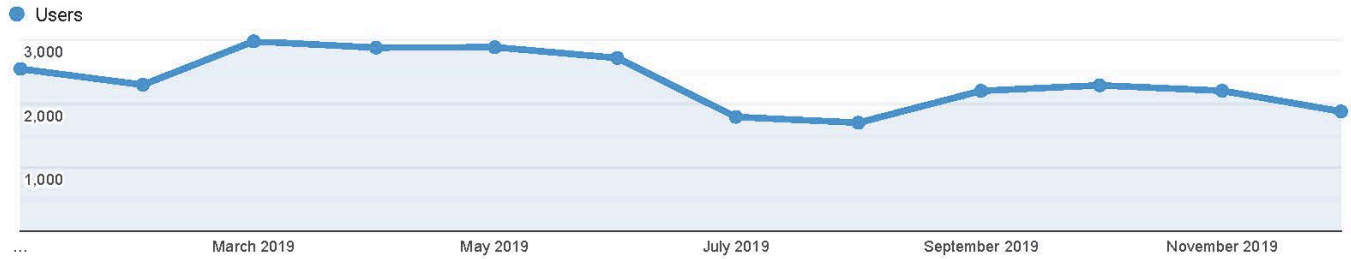
Overview

1 Jan 2019 - 31 Dec 2019

All Users
100.00% Users

Explorer

Summary



Device Category	Acquisition			Behaviour			Conversions		
	Users	New Users	Sessions	Bounce Rate	Pages/Session	Avg. Session Duration	Goal Conversion Rate	Goal Completions	Goal Value
	24,504 % of Total: 100.00% (24,504)	24,113 % of Total: 100.00% (24,113)	41,208 % of Total: 100.00% (41,208)	58.87% Avg for View: 58.87% (0.00%)	2.74 Avg for View: 2.74 (0.00%)	00:02:09 Avg for View: 00:02:09 (0.00%)	0.00% Avg for View: 0.00% (0.00%)	0 % of Total: 0.00% (0)	US\$0.00 % of Total: 0.00% (US\$0.00)
1. desktop	15,579 (63.36%)	15,264 (63.30%)	28,330 (68.75%)	55.37%	3.02	00:02:22	0.00%	0 (0.00%)	US\$0.00 (0.00%)
2. mobile	8,313 (33.81%)	8,167 (33.87%)	11,933 (28.96%)	67.23%	2.09	00:01:39	0.00%	0 (0.00%)	US\$0.00 (0.00%)
3. tablet	695 (2.83%)	682 (2.83%)	945 (2.29%)	58.20%	2.62	00:02:14	0.00%	0 (0.00%)	US\$0.00 (0.00%)

Rows 1 - 3 of 3

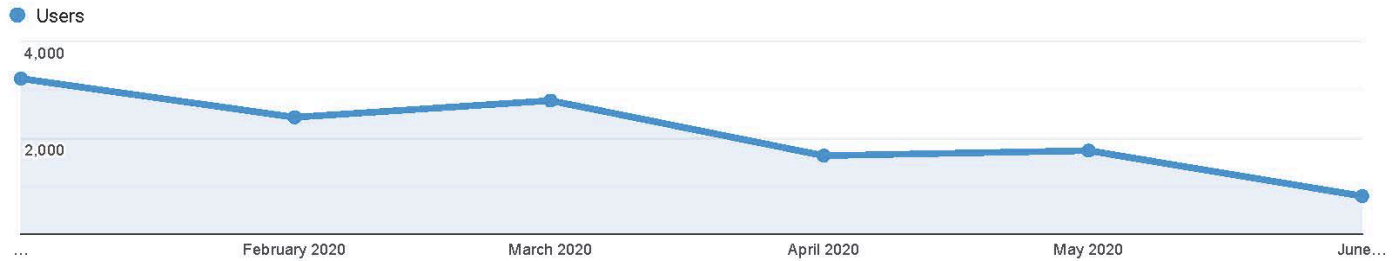
Overview

1 Jan 2020 - 11 Jun 2020

All Users
100.00% Users

Explorer

Summary



Device Category	Acquisition			Behaviour			Conversions		
	Users	New Users	Sessions	Bounce Rate	Pages/Session	Avg. Session Duration	Goal Conversion Rate	Goal Completions	Goal Value
	11,602 % of Total: 100.00% (11,602)	11,177 % of Total: 100.00% (11,177)	17,340 % of Total: 100.00% (17,340)	59.35% Avg for View: 59.35% (0.00%)	2.76 Avg for View: 2.76 (0.00%)	00:02:16 Avg for View: 00:02:16 (0.00%)	0.00% Avg for View: 0.00% (0.00%)	0 % of Total: 0.00% (0)	US\$0.00 % of Total: 0.00% (US\$0.00)
1. desktop	7,362 (63.33%)	7,005 (62.67%)	11,810 (68.11%)	55.55%	3.04	00:02:28	0.00%	0 (0.00%)	US\$0.00 (0.00%)
2. mobile	4,014 (34.53%)	3,932 (35.18%)	5,226 (30.14%)	67.70%	2.11	00:01:48	0.00%	0 (0.00%)	US\$0.00 (0.00%)
3. tablet	248 (2.13%)	240 (2.15%)	304 (1.75%)	63.16%	3.04	00:02:14	0.00%	0 (0.00%)	US\$0.00 (0.00%)

Rows 1 - 3 of 3

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10. Meetings Secretary's Report – Chris Yost

The Meetings Secretary report is brief due to the postponement of the annual scientific conference due to the Covid-19 pandemic. Given the resultant uncertainty that the pandemic may cause for attendance of future meetings we have suspended our activities regarding revisions to profit sharing models with LOC. The LOC guideline document is being revised to reflect current conditions. Current activities are focused on delivering CSM award presentations digitally.

11. Meetings, Conferences and Workshops

a) Report on 2019 Conference – Vincent Burrus, Louis – Charles Fortier and Pascale B. Beauregard

Annual Conference Revenues

Annual Conference Grants	20,390.50
Exhibits & Other Commercial Support	25,801.45
Registration Fees	168,707.24
Other Conference Revenue	0.00
Miscellaneous Revenue	80.16
Net Proceeds from the Conference	0.00
Total Conference Revenue	214,979.35

Annual Conference Expenses

Conference Planner Expenses	0.00
Conference Speakers Expenses ^a	14,755.94
Facility, Food&Bev, Banquet & AV	111,161.73
Conference postage - Mail out	21.92
Program Book production & Printing	0.00
Registration, bank and transaction fees	10,726.50
Conference Supplies & Others	10,469.44
Conference website (Fourwaves)	1,250.00
Social events	6,963.36
Volunteer appreciation	1,950.00
Total Conference Expenses	157,298.89

Net Profit **57,680.46**

Transfer to CSM **(57,680.46)**

^a Two invited speakers did not request reimbursement of their travel expenses (M. Martin and T. Louie)

Registrants: A total of 517 participants were in attendance distributed by origin as follow: 30 from Alberta, 14 from British Columbia, 24 from Manitoba, 2 from New Brunswick, 3 from Newfoundland, 4 from Nova Scotia, 180 from Ontario, 206 from Quebec and 26 from Saskatchewan. 28 international attendees were from the USA (7), UK (1), UAE (1), Sweden (1), Pakistan (1), Qatar (2), South Korea (3), India (2), Jamaica (1), France (1), Germany (4), Czechoslovakia (1), Botswana (1) and Brazil (2).

Abstracts and presentations: A total of 406 abstracts were presented: 310 as posters (71 I&I, 99 MGCM and 140 AEM) including 12 in the poster competition (4 per sections) and 96 as oral presentations with the following repartition:

- 12 concurrent scientific sessions opened by 12 keynote speakers
- 41 talks selected from submitted abstracts presented from Tuesday 11th through Thursday 13th in scientific sessions
- 18 presentations in the 3 section symposia on Thursday
- 12 presentations in two student symposia on Tuesday and Wednesday
- 6 talks in the Postdoctoral research symposium on Thursday
- 3 talks selected in the abstract pool during the Op+Lait workshop
- 3 Award lectures
- 1 Plenary lecture on Monday 10th that was opened to the public.

Plenary, keynote and award speakers, as well as session chairs, were recognized in the program book for their time, hard work and contribution.

Workshops: Two workshops were held on Monday June 10th in the Faculty of sciences building. Over 73 persons attended the morning Forum for Microbiology Education Workshop (FOME) and more than 90 persons attended the afternoon Professional Development Workshop, which was followed by the NSERC Grant Information session. A one-hour workshop held by Op+Lait was given on Tuesday 11th concurrent with the Poster Session I, which was not an ideal time slot, as relatively few people attended the first talk of this workshop. Two additional workshops held by DNA Genotek and Illumina were given at lunchtime on Tuesday 11th and Wednesday 12th. These three workshops were held in the Balcon du Foyer du Mont-Bellevue, in proximity of the Hall d'entrée du Centre Culturel where lunch boxes were provided, allowing attendees to enjoy their lunch during the workshop session.

Lunches, coffee/refreshments breaks, poster sessions and exhibits: Lunches and coffee breaks (with the exception of the Monday Workshops) were held in the Hall d'entrée du Centre Culturel. We provided a diversity of food choices including accommodation for food allergies, vegetarian, vegan and gluten-free lunch box). Refreshments, coffee and tea were available at all time (except for a shortage period on Monday that was quickly rectified) and a cash bar, including popular local microbrewery beer, was open during poster sessions. A complimentary beverage was offered for each participant during each poster session. We tried to make this event as eco-friendly as possible by providing only downloadable PDF version of the program and abstract book, favoring public transportation for attendees, providing reusable aluminum bottles instead of plastic ones, and making sure that all the content of the lunch boxes (including the boxes and cutlery) and coffee cups were compostable. A student Green Squad ensured that attendees used the appropriate trash bins at lunchtime.

A quiet lockable room was available for breast-feeding. It was eventually repurposed to allow people to rest in a quiet place.

The Hall d'entrée provided direct access to the two exhibitor booth spaces, that were central to access to the 2 main conference rooms, the main theatre (Maurice O'Bready) and the 2 poster sessions rooms. This setup was ideal to encourage interactions between attendees, visit exhibitors and poster viewing. 13 exhibitors participated with 14 booths (Thermo Fisher Scientific purchased two booths). Poster sessions and exhibits were concurrent and divided between 5 spaces around the Maurice O'Bready theatre, enhancing the opportunities of interactions with exhibitors and with poster presenters since smaller rooms provided a calmer setting. Poster presentations were displayed with odd- and even-numbered poster presenters allotted different times to be by their posters to reduce crowding. In addition, competition posters were located in the quietest and coziest area that was equipped with several comfortable armchairs, allowing attendees to rest while discussing in a quiet environment if needed.

Conference attendees were provided with an exhibitor passport to encourage them to visit the exhibits and interact with the vendors. A prize draw was organized on Wednesday at the end of the poster session. Unlike the CSM 2018, we received very few prize donations from the vendors. Several forgot to bring prizes despite 2 reminders prior to the conference and one, Illumina Inc, seem to have a policy that forbids such donations. In addition, the exhibitor door prize draw, scheduled 30 min prior to the Armand Frappier Outstanding Student Award lecture, received relatively little attention from the attendees who were very much involved in the poster session.

Keynotes, events and receptions: The welcome address was given by members of the LOC. The plenary lecture was given by Rodolphe Barrangou, North Carolina State University, followed by the opening reception. The very large Maurice O'Bready theatre allowed us to invite the local community to attend the plenary lecture. The lecture and the reception were very well attended. The Hall d'entrée of the Centre Culturel was at the maximum of its capacity for this reception and felt very crowded, a consequence of the unexpected high number of participants.

Two of our microbiology graduate student, Martin Gelinias and David Dumoulin, organized a Student mixer event in coordination with the ASM Ambassador Project Fund and the ASM Student Networking organized by ASM representative Christine Szymanski and ASM Student representative Agatha Jassem on Tuesday evening. The Student mixer event gathered around 200 graduate and undergraduate students. During the evening, most participated in the Social Bingo, an activity promoting social contact between students of different universities in a light and festive competitive atmosphere. A buffet from the local catering service was served. A bar with local microbrewery beer, Quebec's spirit and typical Canadian cocktail was run with the generous help of volunteers from the Biology department. An opportunity was given to the ASM, the main sponsor of the event, for a presentation about their organization. The feedback we received from the participants of the Student Mixer was largely positive.

The main social event was an outing at Foresta Lumina, a multimedia nighttime experience along Coaticook's Canyon on Wednesday evening. We requested a \$34.50 registration fee per person for this event for entry ticket and transportation. Participants were transported by bus to Coaticook, and dropped off at their hotels or residence on the way back to Sherbrooke. A total of 242 participants joined this excursion. Prior to departure, the participants were able to enjoy a delicious, freshly made poutine from a food truck parked in front of the Centre Culturel just for the evening.

The President's Banquet took place at the Théâtre Granada in downtown Sherbrooke, which was easily accessible with public transportation. We also provided buses to transport the attendees to the banquet and back to their hotels or residences. Attendees were able to enjoy the ambiance of the theatre, accompanied by a live Jazz performance, followed by the broadcast of the NBA Finals (Toronto Raptors vs. Warriors). Like the CSM 2017 and CSM 2018 banquets, the party ended with dancing with the DJ music.

A \$10 reservation fee to attend the banquet was requested at reservation to minimize absenteeism. However, a few attendees reported being confused by the fee since the website advertise the President's banquet being included in the registration fees. Several who hoped to attend the banquet did not make the reservation. We were however able to accommodate most, if not, all of them.

Housing and transportation: On-campus residence rooms and reasonably priced hotels were available to our attendees. Housing for invited speakers was reserved in one of the best hotel in Sherbrooke (Grand Times Hotel). These speakers were also offered free shuttle service from and to the Montreal Trudeau Airport. All attendees were provided upon request with free public transportation passes for the duration of the conference. These passes were available at their hotel or residence registration desks, as well as the conference registration desk. In addition, from Tuesday to Thursday, two complimentary bus pick-up services were provided in the morning from the four major hotels that collaborated with the conference.

LOC: The Local Organizing Committee consists of Pascale B. Beauregard (Co-Chair), Louis-Charles Fortier (Co-Chair) and Vincent Burrus (Co-Chair), Mina Zitouni (Administrative Assistant), David Dumoulin (Student Manager) and Martin Gelinias (Student Manager). The LOC would like to thank everyone who was

involved in the organization of this conference, including the volunteers, sponsors and exhibitors, speakers and session chairs.

Table 1: Annual Conference Revenues

Organization name (exhibitors)	Level	Amount	Net profit	Note
Oplait	Platinum	5 000.00	4 804.63	\$
DNA Genotek	Gold	2 500.00	2 500.00	\$
Illumina Inc	Gold	2 500.00	2 174.39	\$
Thermo Fisher Scientific	Gold	2 500.00	2 174.39	\$
Cedarlane	Exhibitor	2 250.00	1 304.63	\$ \$750 award billed by CSM
New England Biolabs	Exhibitor	1 500.00	1 304.63	\$
Beckman Coulter Life Sciences	Exhibitor	1 500.00	1 304.63	\$
CAGEF	Exhibitor	1 500.00	1 304.63	\$
University of Waterloo	Exhibitor	1 500.00	1 304.63	\$
Canadian Science Publishing	Exhibitor	1 500.00	1 304.63	\$
Bayer	Bronze	1 000.00	1 000.00	\$
Spero Therapeutics	Gold	2 500.00	2 500.00	\$
Olympus	Exhibitor	1 500.00	1 304.63	\$
RECSUS			211.00	\$
Infors HT	Exhibitor	1 500.00	1 304.63	\$
Total (net profit)			25 801.45	\$
Organization name (sponsors)	Level	Amount	Net profit	
Destination Sherbrooke	Platinum		6 250.00	\$
CIHR III	Platinum	10 000.00	10 000.00	\$
FMSS (CHUS)	Gold	3 000.00	3 000.00	\$
ASM	Silver	1 500.00	1 140.50	\$
Total (net profit)			20 390.50	\$
Organization name (awards)	Level	Amount	Net profit	
ISME	Bronze	750.00	715.55	\$
Cedarlane		750.00	750.00	\$ Award billed by CSM
Total (net profit)			1 465.55	\$ Not counted
Other				
Cash			80.16	\$
Organization name (awards)	Level	Amount	Net profit	
Thermo Fisher Scientific	Gold	1 500.00	1 500.00	\$ Paid to CSM

Table 2: Annual Conference Expenses

Invited Speakers	Impact	Note
Aeroshuttle Rodolphe Barrangou	104.37	\$ DP1174633
Aeroshuttle Mark Martin	104.37	\$ DP1174633
Aeroshuttle Clarissa Sit	104.37	\$ DP1174633
Aeroshuttle Carol Gross	104.37	\$ DP1174633
Aeroshuttle Herman Barkema	104.37	\$ DP1174633
Aeroshuttle Elizabeth Edwards	104.37	\$ DP1174633
Grand Hotel Times Sherbrooke Inc.	8 221.24	\$ DP1176978
Corinne Maurice	108.45	\$ RD0469035
Rodolphe Barrangou	1 334.46	\$ RD0463939
Alyson Maclean	97.66	\$ RD0463774
Jacques Goulet	216.71	\$ RD0463474
Carol Gross	532.20	\$ RD0463349
Alexander Culley	87.46	\$ RD0463147
Edwards Elizabeth	530.87	\$ RD0464610
Clarissa Sit	835.70	\$ RD0463745
Herman Barkema	1 069.00	\$ DP1186421
Nicholas Ogden	109.75	\$ RD0466013
Michael Mulvey	986.22	\$ DP1203989
	14 755.94	\$
Facility, A&V		
Felix Rheault (Jazz group Granada)	1 400.00	\$
Photography François Lafrance	950.00	\$ DP1186335
Centre Culturel (Renting fees and coffee)	22 683.00	\$ GLRG247073
Food&Bev - Banquet		
Lunch 11/06 COOP	5 564.60	\$ DP1187634
Breakfast 10/06 Fine Bouche	2 312.00	\$ DP1187453
13/06 COOP	6 273.50	\$ DP1177469
Opening reception 10/06 Deux Caribous	17 883.93	\$ DP1176729
Coffee breaks Fine Bouche	24 440.00	\$ DP1176688
Reception Student Mixer 12/06 Poivron Rouge	3 315.75	\$ DP1176138
Closing reception (Granada)	25 780.09	\$ DP1181157
Beverage Student Mixer	728.80	\$ RD0462224-000
Beverage Student Mixer refund	(169.94)	\$ RD0462224-001
	111 161.73	\$
Conference supplies		
COOP Bags and bottles	5 432.15	\$ DP1186356
Rofail Conference (ribbons)	50.96	\$ DP1186600
Table rental (Productions Rolly Inc)	580.00	\$ DP1174318
Banners and T-shirts (Copie de l'Est)	2 653.46	\$ RD0462403
Student mixer supplies	707.54	\$ RD0462033

Other items (tape. stickers)	285.90 \$	RD0460844
Student mixer giveaways	759.43 \$	RD0459265
	10 469.44 \$	

Volunteer appreciation

Gift cards	1 350.00 \$	RD0463076
Gift cards Stud Mixer	300.00 \$	RD0465169
Gift cards Stud Mixer	300.00 \$	RD0465168
	1 950.00 \$	

Social event & transportation

Autobus B. Dion rental (Foresta Lumina)	1 400.00 \$	DP1180257
STS Sherbrooke (Morning bus pickup)	1 900.00 \$	DP1177193
Société Dev de la Gorge (Foresta Lumina 240 tickets)	3 663.36 \$	DP1176817
	6 963.36 \$	

Table 1. Registration numbers and net revenues per categories as of May 17, 2019 (All rates).

Registration type	Participants	Regist. fees	Total
CSM member - Regular	97	492.64 \$	47 786.08 \$
CSM member - Regular - late	5	600.96 \$	3 004.80 \$
CSM member - Graduate	276	275.97 \$	76 167.72 \$
CSM member - Graduate - late	2	395.11 \$	790.22 \$
CSM member - Undergrad	22	259.72 \$	5 713.84 \$
CSM member - Undergrad - late	2	368.03 \$	736.06 \$
Non-member - Regular	16	660.55 \$	10 568.80 \$
Non-member - Regular - late	2	768.86 \$	1 537.72 \$
Non-member - Graduate	35	389.70 \$	13 639.50 \$
Non-member - Undergrad	1	346.35 \$	346.35 \$
Invited speaker	12	- \$	- \$
Exhibitor	14	- \$	- \$
Other	2	- \$	- \$
Emeritus	2	- \$	- \$
Awards	3	- \$	- \$
Sub-Total	491		160 291.09 \$
Refund students CSM Memb.	5	120.70 \$	603.50 \$
Refund invited speakers	2	523.15 \$	1 046.30 \$
Total			158 641.29 \$

Table 2. Workshop registrations and net revenues as of May 17, 2019 (All rates).

Workshops	Participants	Regist. fees	Total
FOME	62	10.84 \$	672.08 \$
Professional skills	86	10.84 \$	932.24 \$
FOME late	4	21.36 \$	85.44 \$
Professional skills late	1	21.36 \$	21.36 \$
FOME only	4	64.71 \$	258.84 \$
Professional skills only	0	64.71 \$	- \$
Total			1 969.96 \$

Table 3. Social activities and net revenues as of May 17, 2019.

Social Activities	Participants	Regist. fees	Total
Banquet registration	324	10.84 \$	3 512.16 \$
Student mixer	208	21.67 \$	4 507.36 \$
Foresta Lumina	183	32.50 \$	5 947.50 \$
Guest opening reception	3	43.35 \$	130.05 \$
Guest Foresta Lumina	2	32.50 \$	65.00 \$
Guest Banquet	3	92.09 \$	276.27 \$
Total			14 438.34 \$

Table 4. Exhibitors and net revenues as of May 17, 2019.

Organization name (exhibitors)	Level	Amount	Net profit
Oplait	Platinum	5000.00	4 804.63 \$
DNA Genotek	Gold	2500.00	2 500.00 \$
Illumina Inc	Gold	2500.00	2 174.39 \$
Thermo Fisher Scientific	Gold	2500.00	2 174.39 \$
Cedarlane	Exhibitor	2250.00	1 304.63 \$
New England Biolabs	Exhibitor	1500.00	1 304.63 \$
Beckman Coulter Life Sciences	Exhibitor	1500.00	1 304.63 \$
Canadian Science Publishing	Exhibitor	1500.00	1 304.63 \$
Olympus	Exhibitor	1500.00	1 304.63 \$
Infors HT	Exhibitor	1500.00	1 304.63 \$
CAGEF	Exhibitor	1500.00	1 304.63 \$
WCMR	Exhibitor	1500.00	1 304.63 \$
Total (net profit)			22 090.45 \$

Table 5. Sponsorship and net revenue as of May 17, 2019

Organization name (sponsors)	Level	Amount	Net profit
Destination Sherbrooke	Platinum	>20,000	3 500.00 \$
CIHR III	Platinum	10000.00	10 000.00 \$
Centre Sève	Gold	500.00	500.00 \$
FMSS (CHUS)	Gold	3000.00	3 000.00 \$
Spero Therapeutics	Gold	2500.00	2 500.00 \$
ASM	Silver	1500.00	1 500.00 \$
Bayer	Bronze	1000.00	1 000.00 \$
Total (net profit)			22 000.00 \$

11 Meeting, Conferences and Workshops

b) Report on 2020/ 2021 conference – Cezar Khursigara and Kari Dunfield

This report provides an update on the preparation and planning for the 70th Annual Conference of the Canadian Society of Microbiologists to be held at the University of Guelph, June, 2021.

The theme for 2021 Conference will remain ‘Microbes for Life’ and will focus on microbes in health and agriculture. However, all traditional CSM pillars will be equally represented, including Applied and Environmental Microbiology, Infection and Immunity, and Molecular Genetics and Cellular Microbiology.

CSM Executive and CSM 2020 Conference Co-Chairs decided on Friday, March 13, 2020 to cancel the CSM 2020 University of Guelph Conference due to COVID 19 pandemic. As a consequence of the cancelation, the Delta Hotel sent to our Conference Organizer, Ms. Wafaa Antonious an invoice in the amount of \$17,010 + HST. The Delta believes that it is within their rights and according to the contract to charge the full amount of the penalties but they wanted to reach some kind of agreement especially that the conference will be held in 2021. After several correspondence and 2 meetings the General Manager conveyed to Cezar the Delta hotel willingness when asked to transfer the entire amount of the deposit to next year if we held another event at their hotel. They were extremely receptive to this option and agreed that if we held the Opening Reception at the Delta, they would transfer the entire deposit to next years conference and we would not have to pay anything now. They seemed genuinely grateful that we offered this option.

The meeting space has been put on hold at the University of Guelph for CSM 2021 Conference from Sunday, June 20 till Wednesday, June 23rd, 2021. The reason it was decided to start on Sunday is that Alumni week starts Friday, June 25th and they will need some of the space we will be using on Thursday. This was also to be considerate to Conference Services and lessen the workload of dealing with two big events on the same day. Space that has been put on hold are: Rozanski for the scientific sessions, Science Complex for the opening reception, Creelman for lunches. The one space that yet to be confirmed as conference services have not been able to get in touch with is the Field House where the posters, exhibits and banquet were planned. An alternative space that might be available for the 2021 conference is the Event Center which was not available for 2020 conference and is a better alternative to the Field House. Conference Services advised us that the Event Center (which is also a large track & field gym) might be available, and our dates fall between Convocation week and Alumni week events. The flooring will be covered and we can share in the cost of the flooring. The cost of the flooring in the 2020 was over \$9,000 (Hahn Rentals and Field House).

- a. The decorating company “Hahn Rentals” was contacted and they were ok with moving the dates to 2021 without any penalties.

- b. All the hotels have been contacted and advised of the postponement to 2021. All of them are understanding and are looking forward to working with us in 2021.
- c. Exhibitors and Sponsors have been contacted regarding the booth and the award support. Most requested to be approached again at the end of 2020 for 2021 support.
- d. The notice about the 2020 Conference Cancellation has been posted on the home and program web pages on the Fourwaves and on the CSM Upcoming Annual Conference webpage.
- e. Both the registration and abstract forms have been closed. We will reopen the registration form once the 2021 dates have been confirmed. Reopen the abstract form in January 2021.
- f. Fourwaves will allow all the events that are postponing to 2021 to retain their webpages, registration and abstracts submitted to date without extra cost.
- g. Those who have registered and paid to date (64) were contacted and given the option to have their registration extended to 2021 or refunded. This decision was taken to save on the cancellation fees that the conference will have to absorb. The registrant will be refunded 100% of the registration fees, but CSM will have to cover 3% Fourwaves fees and Stripe fees. All those who requested a refund, has been refunded. Not everyone has responded yet.
- h. We will be going with the same program and the speakers that were invited for 2020 unless they are not available, then replacement will be identified.
- i. All the U of G departments and colleges that have transferred funds to CSM2020Conference U of G account indicated their willingness that the funds can be retained for 2021 Conference. To date there is \$23,000 in sponsorship / grants funds that have been promised / received in support of the 2020 CSM Conference including the \$10,000 from CIHR.
- j. The 2020 LOC members and Symposia chairs were contacted and they all confirmed their interest in continuing for 2021 Conference.
- k. The conference contract with RCMS was extended to 2021.
- l. Some of the symposia titles will need to be refreshed.

So, for 2021 Conference Organization, we will pick up where we stopped for 2020 Conference. The program will be refreshed, we will need to approach the exhibitors again, contact U of G departments that have promised but have not transferred the funds or have not yet promised to support the conference yet and contact the hotels again for room blocks. The most important item currently is the Delta hotel contract negotiations and finalizing the space at the U of G.

Website:

The Fourwaves website is kept open and is showing the [Program information](#), which will be refreshed based on 2021 speaker's availability. Speakers and LOC pages include photos, contact information and link to the website of the LOC, Symposia Chairs and Vice Chairs and CSM Section Chairs and Vice Chairs. All the website pages including the accommodation / travel and what to do at Guelph have been updated and are live, information will be checked and revised if need for the 2021 Conference. The website page will be updated regularly with the exhibitors' blurbs and sponsors logos as soon as payment is received.

Local Organizing Committee

Member	Affiliation	Contact
Kari Dunfield (co-chair)	School of Environmental Science, Ontario Agricultural College	dunfield@uoguelph.ca
Cezar Khursigara (co-chair)	Molecular and Cellular Biology, College of Biological Science	ckhurig@uoguelph.ca
Georgina Cox	Molecular and Cellular Biology, College of Biological Science	gcox@uoguelph.ca
Jennifer Geddes-McAlister	Molecular and Cellular Biology, College of Biological Science	jgeddesm@uoguelph.ca
Rebecca Shapiro	Molecular and Cellular Biology, College of Biological Science	shapiror@uoguelph.ca
Marc Habash	School of Environmental Science, Ontario Agricultural College	mhabash@uoguelph.ca
Nicole Ricker	Pathobiology, Ontario Veterinary College	nricker@uoguelph.ca
Hany Anany	Guelph Research and Development Centre, Agriculture and Agri-Food Canada	hany.anany@canada.ca
Moussa Diarra	Guelph Research and Development Centre, Agriculture and Agri-Food Canada	moussa.diarra@canada.ca
Hanan Shehata (PDF)	Integrative Biology, College of Biological Science	hshehata@uoguelph.ca

Locations and Venues

We have reserved venues on campus for pre-conference meetings, presentations (including keynote addresses), meetings, the opening night reception, vendor booths and posters, lunches and residences and additional venues for accommodation. Venues for the President's Banquet are still under consideration, but we have tentatively reserved space on-campus and at a nearby hotel. A detailed map of campus can be found here: https://www.parking.uoguelph.ca/sites/default/files/Campus%20Map%202016_0.pdf

Rozanski Hall

Named in honour of Mordechai Rozanski, the University's longest serving president, Rozanski Hall houses lecture theatres ranging in size from 30 to 600 seats (the 4 largest rooms hold 600, 414, 211 and 120 seats, respectively) and modern classrooms with computer-based multimedia equipment.

All sessions/seminars, Keynotes and the CSM Annual General Meeting will use this Hall. It has been reserved for CSM use only for the duration of the Conference.



Event Center or the Field House

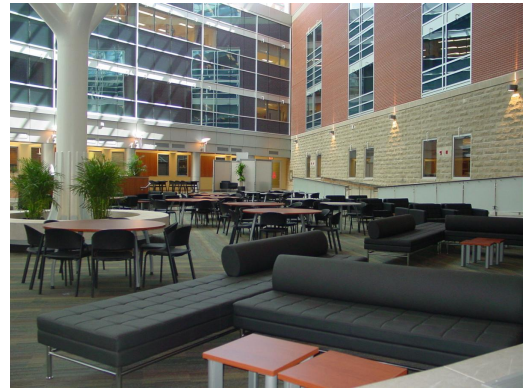
All vendor booths, and poster boards will be located in either the Event Center or the Field House. They both are very large gyms only a 5-minutes walk from Rozanski Hall and will be used exclusively for CSM throughout the week.

University Center

The UC is one of the main hubs on campus, you'll find administration, Central Students Association offices, registrar, The Brass Taps, cafeteria (for the Student Mixer) a/food court, study spaces, concerts, etc.

Summerlee Science Complex Atrium

The Atrium is a shared space in which the interactions and synergies between the Arts, Science and Technology are foregrounded. It serves as a student and faculty meeting place, and as a venue for receptions, presenting to the University community, and the community at large, the exciting intellectual, scientific, and artistic activities which are part of the daily life of the University of Guelph.



We originally were planning to hold the Opening Reception for CSM 2020 at the Atrium. But we might end up holding it at the Delta Hotel to have the attritions penalties put toward the Opening reception instead. The Atrium has outlets on the floor throughout the space as well as on the walls. The Atrium is 2-minute walk from Rozanski Hall.

Creelman Hall

The Creelman Marketplace looks like a classic 1930's warehouse with a bright, bustling ambience. This venue will be used for lunches throughout the conference. Creelman Hall is a 4-minute walk from Rozanski and Peter Clark Halls



South Residence

The South Residence is comprised of 4 buildings that were all recently upgraded for Fall 2018. The South Residence is only a 3-minute walk to Rozanski and Peter Clark Halls.



Registration Fee	Fees	# expectant Attendees	Estimated Revenue
Registration: Regular Member Early	455	110	\$50,050.00
Registration: Regular Member Late	555	20	\$11,100.00
Registration: Non-member Early	610	20	\$12,200.00
Registration: Non-members Late	710	20	\$14,200.00
Registration: Student / PD/ Emert/ Members - Early	255	185	\$47,175.00
Registration: Student / PD/ Emert/ Members Late	355	10	\$3,550.00
Registration: Student/ PD/ Emert/ non-member - Early	360	20	\$7,200.00
Registration: Student / PD/ Emert/ non-members Late	460	2	\$920.00
Member - Undergraduate - Early	240	20	\$4,800.00
Member - Undergraduate - Late	340	5	\$1,700.00
Non member - undergraduate - Early	320		
Non member - undergraduate - Late	420		
one day registration - Non member	250		
Speakers, specials, accompanying person	0	18	\$0.00
Professional Development Workshop - Early Fees	10	90	\$900.00
Professional Development Workshop - Late Fees	20	5	\$100.00
FOME - Early fees	10	50	\$500.00
FOME - Late fees	20	5	\$100.00
FOME or Prof Dev. only registration Early Fees	50	4	\$200.00
FOME or Prof Dev. only registration Late Fees	60	2	\$120.00
Social Event Tickets - Guest - Opening reception	40	5	\$200.00
Banquet Tickets - Guest	85	5	\$425.00
Banquet Tickets - Reservation fees	10	345	\$3,450.00
Student Mixer (not included in the regist. fees)	20	150	\$1,500.00
Exhibitors (booth)	1500	15	\$22,500.00
2nd booth / workshop	1000	2	\$2,000.00

Total Estimated Reg Fees	<u>\$154,695.00</u>
Total Social Events	<u>\$5,575.00</u>
Total Reg & Social	<u>\$160,270.00</u>
total with HST	<u>\$181,105.10</u>

Total # of estimated Paid registrants	412
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Revenue	Estimated
Registration	154,695.00
Social Events Tickets	5,575.00
Exhibitors (booth & workshops rentals)	24,500.00
Sponsorship	27,700.00
Miscellaneous Income	500.00
Total Revenues	\$212,970.00

EXPENSES

Opening Reception (all expenses - \$44.62 cost per person including 1 drink ticket & gratuity) for 400	17,846.00
Meeting space including Field house Mon - Wed	20,798.00
Banquet, estimated 350 attending, \$3,000 entertainment exp included	32,495.45
Graduate Student Mixer	2,000.00
Professional Development (\$1,072) Breakfast for 100 & FOME (lunch for 70) Food & Bev (\$1,360)	2,432.00
Meeting Planner Fees based on 430 registrants	24,409.00
Field House Setup- Tues & Wed: poster boards, tables & carpet	8,900.00
lunch for 430 (registrants & exhibitors) @14.90 ea \$6,407 ea. X 3 days (Tues - Thurs)	19,221.00
Coffee breaks (3 AM).	11,144.66
Coffee Breaks & drink tickets (2 PM breaks) Tues & Wed	8,397.00
Entertainment for opening reception	1,000.00
Velcro, 14 dots/ft @\$1.50 ea. Need 180 ft, order 200 - estimate	300.00
Stationary, printing, advertising, signage t-shirts, etc	1,000.00
Exhibitor expenses: 2 chairs ea., 2 skirted table ea., waste basket, curtained booth for 15 booth	1,710.00
Miscellaneous	3,000.00
Speaker Travel & Accommodation (12X\$1,500 ea + 2,500 keynote	20,500.00
CSM Business Expenses:	
CSM Executive & Council Meeting room Rental	-
CSM Executive Meeting: coffee and muffins, etc.	125.00
Council Meeting lunch	466.00
Volunteer Appreciation Expense (at the discretion of the LOC to thank their volunteers for assisting) Depending on final financial outcome	1,000.00
Four waves hosting fees	1,945.00
Four waves 3% fees - Amount will change based on registration fees	5,433.15

Credit Card discount fees (Stripe) - Amount will change based on registration fees	5,252.05
Transaction Fees (.30 ea) based on # of registration	123.60
Other Expenses(swags) bag, notepad & pen (450) bags at \$10.00 ea. will be \$4,500 +1000) & Other	6,000.00
Conference organizer & assistant travel expenses & CSM Exec dinner	2,000.00
Website & Alerts	2,500.00
Audio Visual rental	2,220.00
TOTAL EXPENSES	202,217.91
Net Profit based on estimated Revenue & Estimated Expenses	\$10,752.09

Please note **this is conservative budget**, we are estimating lower revenues for registration and higher expenses for speakers.

11. Meetings, Conferences and Workshops

c) Future Conferences – Takuji Tanaka

In March, COVID-19 situation became worse and the annual conference for this year is postponed to 2021. As a result, the arrangements for following years must be changed, and I have worked on it. The current confirmed hosts for coming years are:

2021 – University of Guelph, Guelph, Ontario, contact parson, Dr. Cezar Khursigara (ckhursig@uoguelph.ca)

2022 – Dalhousie University, Halifax, Nova Scotia, contact parson, Dr. Nikhil Thomas (n.thomas@dal.ca)

2023 – Western University, London, Ontario, contact parson, Dr. Martin McGavin (mmcgavin@uwo.ca)

The host of 2024 was agreed with Dr. Adnane Sellam (adnane.sellam@crchudequebec.ulaval.ca). However, he is moving from Université Laval to Université de Montréal, and needs some time to confirm if he can lead the hosting activities. Once he concludes, either university or a university at somewhere else will be identified as the host of 2024.

12. Post Doctoral Representative Report – Stephanie Jones

It's been a pleasure to serve as the CSM's postdoctoral representative this year. I'm excited to share a few updates:

- I've been managing the CSM's Twitter account this year. I've been posting lots of award opportunities, deadlines, job opportunities, and conference updates. The tweets have had fantastic engagement (lots of likes and shares!), and I hope they've played a role in enhancing award applications, CSM membership, and awareness of the CSM.
- We've changed the language for the CSM Ambassador Awards - it previously stated only early-stage postdocs could apply, and now states that all postdocs can apply. This acknowledges the new reality that postdocs are often longer than a couple of years, and should enhance award opportunities for postdocs throughout the CSM.
- Many postdocs require child care support and resources for traveling and conferences, and the CSM is now offering this support (as needed) for anyone attending future CSM conferences. I'm excited about this initiative, and think it should help reduce barriers to science for parents.
- With a group led by Alex, I'm helping setup the CSM's new website. I'm excited to see how this turns out, and think it should provide a fantastic new resource for all CSM members!

13. Graduate Student Representative – Olivia Ihedioha

It is a pleasure working as a graduate student representative with the CSM executive over the past two years. Through our Facebook page, we create awareness and promote the society via posting advertised jobs, annual conference and microbiology related articles. Write a brief bio about yourself and send it to infor@csm-scm.org if you want to be featured on “Meet The Microbiologist” section of our website, this will be shared on the Facebook page. Regular posting of content from CSM website on the Facebook page has increased the likes (from 731 in May 2019 - 912 in June 2020).

14. New Members of the Executive & Council

New members of the Executive Committee:



Pascale Beauregard (Université de Sherbrooke) will join the CSM Executive as **2nd Vice President**.

Bio: Pascale B. Beauregard obtained her B.S. in biochemistry from Université de Montréal (2002) and completed her PhD thesis under the supervision of Dr Luis Rokeach (2009, Université de Montréal). She then went on to Harvard Medical School (2010-2014, Boston) in the laboratory of Dr Roberto Kolter, where she started exploring the relations between *Bacillus subtilis* and plants. Dr Beauregard joined the biology department at Université de Sherbrooke in 2014, where her group investigates many topics gravitating around bacterial biofilms, including interaction with plants, horizontal gene transfer, nutrient acquisition and Alzheimer’s disease.

Mazen Salah (Laurentian University) will join the CSM Executive as the new **Secretary/Treasurer**.

Bio: Following his undergraduate and Master's studies at the University of Waterloo, he joined the Department of Medical Biophysics at the University of Toronto. Under the supervision of Professor Jean Gariepy, his doctorate studies were focused on the biophysics of microbial protein toxins. Prior to joining the Department of Biology at Laurentian University, he spent time as a postdoctoral fellow at the University of California at Los Angeles (UCLA) and Colorado State University.



New members of the CSM Council:



Joel Weadge (Wilfrid Laurier University) will join the council as **Infection and Immunity Section Vice-Chair**.

Bio: I received my PhD in Microbiology from the University of Guelph in 2006 and my BSc in honours microbiology from the University of Guelph in 2000. I thoroughly enjoyed my time as a graduate student and looked to expand on this growing interest in enzymology and glycobiology by pursuing postdoctoral fellow research at the Carlsberg Research Centre in Copenhagen (2007-2008) and in the Molecular Structure and Function Program at the Hospital for Sick Children in Toronto (2008-2011).

Jenny-Lee Thomassin (University of Saskatchewan) will join the council as **Molecular Genetics and Cellular Microbiology Section – Vice Chair**.

Bio: I recently joined the Department of Biochemistry, Microbiology and Immunology at the University of Saskatchewan as an Assistant professor (May 2020). I completed my BSc (Honours, biology) and Diploma in Forensic sciences at Saint Mary's University (2006) and my MSc at Dalhousie University under the supervision of Dr. Nikhil Thomas (2009). I then moved from Halifax, NS to Montreal Qc where I completed my PhD at McGill University (2014) under the co-supervision of Drs. Hervé Le Moual and Samantha Gruenheid. I moved to Paris, France where I pursued my post-doctoral training at the Institut Pasteur (2015-2017, 2018-2020) and Collège de France (2017-2018) working with Drs. Olivera Francetic and Guy Tran Van Nhieu. Current work in my lab is focused on studying the bacterial type II secretion system (T2SS) in *Klebsiella pneumoniae* and pathogenic *Escherichia coli*.



Eric Bottos (Thompson Rivers University) will join the council as the **Applied Environmental Microbiology Section - Vice Chair**.

Bio: Eric is an Assistant Professor in the Department of Biological Sciences at Thompson Rivers University. He received a BSc from Thompson Rivers University, a MSc from McGill University, and a PhD from the University of Waikato in New Zealand. As a microbial ecologist, his research focuses on understanding ecological processes influencing microbial community structure and function. His current research is investigating how microbial communities are responding to climate warming in Arctic and Antarctic soils.

Edel Pérez Lopéz (Université Laval) has joined the council as the new **Co-Chair of the Education & Careers Committee**.

Bio: Edel Pérez López is an Assistant professor at Université Laval, since April 2020. He has a B.Sc Biochemistry, University of Havana, Cuba (2011), and Ph.D. in Ecology and Biotechnology, University Veracruzana, Mexico (2016). He has broad experience working in multidisciplinary groups around the world and his work has had a great impact in the taxonomy of the plant pathogenic phytoplasmas. Since 2018 he has been working on the characterization of effector proteins used by the clubroot pathogen to infect susceptible hosts. He is establishing the **first laboratory in Canada focusing on molecular aspects of *Plasmodiophora brassicae* and its biology**, a plant pathogen that cost millions of dollars every year to the canola and fresh vegetables industry.



15. Reports from the Section

a) Applied and Environmental Microbiology (AEM) - Steven Short, Chair & Laura Hug, Vice-Chair

The 70th Annual Conference that would have been held at the University of Guelph from June 22nd to 25th, 2020 was cancelled due to the COVID-19 pandemic. Hence, no abstract submissions were reviewed for the meeting.

15. Reports from the Section

b) Infections and Immunity (II) – Sebastien Faucher, Chair & Georgina Cox, Vice Chair

Due to the cancellation of the 2020 Conference, the Infection and Immunity section did not assess submitted abstracts this year. We are supporting, unconditionally, the decision of the organizing committee. Nevertheless, we both missed seeing the wonderful science being done by the bright and dedicated young microbiologists of the CSM. It is too early to envision what form the 2021 conference take. If it is not possible to conduct the conference in person, maybe it would be great to have some sort of online oral and poster competition, so we could see and support the next generation of microbiologists.

15. Reports from the Section

c) Molecular Genetics and Cellular Microbiology (MGCM) – Tracy Rivio, Chair & Alex Hynes, Vice-Chair

This year, with COVID-19 resulting in the cancellation of the 2020 annual conference in Guelph, the chair and vice-chair were not called upon for abstract screening/selection. At last year's council meeting, it was proposed that section chairs/vice-chairs take on some additional tasks to maintain involvement throughout the year, rather than simply as part of the lead up to the annual conference - one proposal was to curate a list of legitimate conferences relevant to each section. Needless to say, the demand for such a list is also greatly reduced in the context of the pandemic. However, in coordination with 2nd VP Alex Ensminger, the vice-chair has been working on exploring updates to the CSM website that would facilitate this task.

16. Reports from Committees

a) Education and Career Committee –Co-Chairs: Denice Bay, Dawn Bignell and Edel Perez Lopez

Members

Stephanie Jones, Jennifer Ronholm, Yannick Tremblay, Anni Moore

Oral Symposium and Poster Competition

Due to COVID-19 and the cancellation of the 70th annual CSM meeting this year, the student oral symposium and poster competition were also cancelled for 2020. The plan is to proceed with the student symposium and poster competition for the 2021 CSM meeting.

Awards

ISME-8 Travel Awards: Suspended for 2020

ISME-18 Awards: Up to 10 travel awards were available; however, these awards have also been suspended for 2020 due to the cancellation of the 18th International Symposium on Microbial Ecology (ISME18) Conference that was to be held in Cape Town, South Africa. The conference is now expected to take place in August 2021, and so nominations for the awards will open in early 2021.

CSM Ambassador Awards: Up to two awards can be given, and we received two applications this year. Both applicants were judged to be highly suitable recipients. The award winners are:

Nikhil George (University of Waterloo; nominated by Laura Hug)
Moïra Dion (Université Laval, nominated by Sylvain Moineau)

** Due to COVID-19 travel restrictions and the possibility of 'second wave' COVID-19 cases that may limit travel in some provinces this year and next, the E&C committee suggests discussing award delivery and virtual seminar options this year for award ambassador recipients.

CSM Undergraduate Awards: Up to six awards can be given, and we received five nominations by the deadline. All of the nominees were judged to be highly suitable for the award. The award winners are:

Vienna Buchholz (University of Calgary; nominated by Laura Sycuro)
Jonathan Bellini (Western University; nominated by David Heinrichs)
Meghan Pepler (McMaster University; nominated by Marie Elliot)
Kartik Sachar (University of Manitoba; nominated by Gerd Prehna)
Madison Chapel (University of Manitoba; nominated by Aleeza Gerstein)

The E&C committee co-chairs noted that the description of the award criteria requires some revision and updating in order to clarify the expectations for the essay component of the application. Thus, the committee has submitted a revised version of the award criteria for approval. The revisions made are based on how the committee has been evaluating the essays over the past three years and on some of the best essays that have been received. The proposed revisions are shown below in red.

“Any faculty member of a Canadian university may nominate one full-time student for this award each year. The student must be a CSM member at the time of nomination. Nomination letters must be accompanied by a 1-page (single-space, 12pt font, 2 cm margins) essay by the nominee called "Why the study of microbiology is big science" in addition to an unofficial transcript of the nominee. Essays will be evaluated on how 'big science' is defined, on the clarity of the central argument(s) for why the study of microbiology is a 'big science', the quality and use of examples justifying the argument(s) posed, and how microbiology impacts their own career development/plans. Applications should be sent as a single combined PDF document to the CSM Secretariat and will be accepted until X. Nominations will be evaluated by the Education and Careers Committee based on the student essay, academic performance, and the nominating letter.”

Career Development Workshop

The 5th annual Career Development Workshop was to take place on June 22nd, 2020 from 9am-12pm. Two speakers were recruited to host the workshop, Dr. George DiCenzo from Queen’s University, and Dr. Aleeza Gerstein from the University of Manitoba. The workshop was to focus on building traditional and modern scientific writing skills. The title and description of the workshop is below.

Traditional to modern scientific writing: how to best navigate scientific communication for microbiologists on various media

The ability to effectively communicate in scientific publications and via social media is a crucial element to navigating a successful career in microbiology. This year's professional development workshop focuses on building scientific writing skills from the perspective of writing traditional journal articles to communication on the fast paced and immediate platforms available from social media websites like 'Instagram' and 'Twitter'. This year's workshop will develop these skills, with presentations and discussions from Drs. George DiCenzo (Queens University; “Sharing your data with the world: tips on writing scientific manuscripts”) and Aleeza Gerstein (University of Manitoba; “Research strategies beyond the bench: using technology for reproducibility, collaboration, and social networking”) who will share tips, strategies, and best practices on how to effectively communicate science using these media. Discussion of practical and philosophical approaches to these important scientific communication skills will be explored, that bridge traditional and modern communication forms for science in the process.

Because of the cancellation of the 2020 CSM meeting, the workshop has been postponed to the 2021 annual meeting. Both speakers have indicated that they are available to participate in 2021.

Committee Membership

A number of new members have been recruited to the committee this year. Denice and Dawn will remain as co-chairs, and Edel has been recruited as the third co-chair to replace Josh Neufeld, who stepped off of the committee last year. Other new committee members include Jennifer Ronholm, Yannick Tremblay and Anni Moore, who will replace Naowarat (Ann) Cheeptham and Teresa (Teri) de Kievit. Stephanie Jones will continue on the committee as the PDF representative. The co-chairs would like to thank all of the current and past committee members for their dedication and service to the CSM!

16. Reports from Committees

b) Committee on Microbiology Undergraduate Education Report (FOME)– Joe Rubin, Maria Davis

We began this year with new committee co-chairs: Maria Davis (University of Regina) and Joe Rubin (University of Saskatchewan). This year our committee has grown in numbers and includes a group of highly dedicated individuals because of the hard work and effort put forth by the founding co-chairs: Tanya Noel and Josie Libertucci. We want to give our sincerest thanks to Tanya and Josie for all their effort into making FOME a sustainable CSM committee and their continued guidance as committee members. We would also like to welcome our new committee members Nicole Sukdeo and Yanelis Acebo Guerrero to the team!

For FOME 2020, the committee planned on a Keynote with Dr. Tamara Kelly (York University) followed by MicroFOME talks, and facilitated edu-watercooler sessions. We are proud of the exciting program that was developed for this year's conference, and are looking forward to bringing these sessions to life at FOME 2021. We understand that cancelling the conference was a difficult decision for both, the LOC and CSM executive. We would like to sincerely thank the CSM 2020 LOC, Kari Dunfield and Cezar Khursigara for their timely communication and all of the effort and hard work that went into organizing CSM 2020.

As we continue to develop our ideas looking forward to CSM 2021, the FOME committee has been considering ways to support microbiology educators over the next 12 months. FOME would like to bring together our community of microbiology educators to collectively address the teaching difficulties we are currently facing, so that we can support each other as we prepare for the challenging semesters ahead. We are planning to organize online workshops/ community brainstorming sessions/webinars over the summer months where educators can share strategies for success in the classroom and in the lab. In the coming weeks we will be reaching out to CSM members with additional details.

A heartfelt thank you to all the committee members for all their efforts into planning of FOME 2020 and upcoming FOME community sessions. We would also like to thank the CSM executive and meetings secretary Chris Yost for their continued support.

16. Reports from Committees

c) Awards Reports

i CSM Murray Award for Career Achievement – Sylvain Moineau

The Selection Committee of the CSM Murray Award for Career Achievement included Silvia Cardona (University of Manitoba), Samantha Gruenheid (McGill University) and Sylvain Moineau (Université Laval, Chair). We unanimously recommended **Lori Burrows** (McMaster University) for the 2020 CSM Murray Award to recognize her remarkable scientific contributions to the field of microbiology. She is also an outstanding scientist, mentor, communicator, role model and citizen of Canadian microbiology.

ii Thermo Fisher Scientific Award – Marie Elliott

In my capacity as Past President of the CSM, I was technically the Chair of the CSM Thermo Fisher Young Investigator Award Selection Committee for 2020; however, I was in a conflict of interest with one of the nominees (being at the same institution), so was not involved with the evaluation of the nominations. The evaluation committee comprised of the CSM Meetings Secretary, the two Chairs of the CSM Education Committee, and two Editors from the Canadian Journal of Microbiology. There were two very strong nominations submitted for the 2020 CSM Thermo Fisher Award. The committee had a very challenging task due to the outstanding applications for both nominees. The committee was very impressed by the scientific accomplishments of both nominees but ultimately had to make a decision in the selection. The committee was unanimous in their decision to select Dr. John Whitney as the 2020 CSM Thermo Fisher Scientific Young Investigator Award winner.

iii Armand-Frappier Outstanding Student Award – Kapil Tahlan, Carole Creuzenet and Tracy Raivio

Seven trainees from Quebec and Ontario with diverse backgrounds in virology, bacteriology and mycology were nominated for the award this year. There were many excellent candidates and the committee shortlisted three applications based on submissions, which led to a very close competition. Brendan Daisley (Western University) was selected as this year's recipient of the Armand-Frappier Outstanding Student Award. The decision was based on the overall impact of the student's work, their contributions, achievements and nomination letters.

During deliberations, the committee noted that the language in the Terms of Reference documentation pertaining to the award is somewhat open to misinterpretation. It recommends that certain parts should be rephrased to clarify that students who have graduated within the previous year up to the deadline date are also eligible to apply. The committee would also like to thank all candidates and their nominators for highlighting the work of trainees, so that they can receive recognition. It is refreshing to see the diversity and quality of graduate student research being conducted in Canada, and we hope that more nominations are received from other regions of the country in future competitions.

17. Reports from Representatives to outside organizations

a) Canadian Journal of Microbiology, 2018-2019 - Chris Yost and Kari Dunfield, Co-Editors in Chief

CJM continues to be a proud sponsor of the CSM Murray Award and we congratulate Dr. Lori Burrows on her receipt of this year's award. The CJM continues to provide benefits to CSM members, including reduced fees for open access and prompt handling of manuscript submissions. CJM also looks forward to working

with CSM authors to help promote their work published in CJM, and this can include highlighting graduate students whose work is included in the paper. CJM also thanks the many CSM members who serve as Editors and Editorial Board Members on CJM.

17. Reports from Representatives to outside organizations

b) *International Union of Microbiological Societies Virology– Rodney Russell*

17. Reports from Representatives to outside organizations

c) *International Union of Microbiological Societies - Mycology– Jennifer Geddes- McAlister*

17. Reports from Representatives to outside organizations

d) *International Union of Microbiological Societies – Bacteriology – Charles Dozois*

17. Reports from Representatives to outside organizations

e) *International Committee on Taxonomy of Viruses – Andrew Lang*

Access to all the latest information about ICTV activities and updates is available at the ICTV website (<http://talk.ictvonline.org/>). At this site you can also subscribe to the ICTV email newsletter. Some recent and ongoing ICTV highlights:

- The ICTV will hold an election this fall for positions on the Executive Committee. The positions available are those of President, Vice-President, Data Secretary, Proposals Secretary, and eleven Elected Members. Nominations are due by 3 August 2020.
- The ICTV Code has been changed to allow a fifteen-rank classification hierarchy, similar to the Linnaean system. This new structure can accommodate the entire spectrum of viral genetic diversity. This change is described in the following article: Gorbalenya et al. 2020. *Nat Microbiol* 5: 668–674 (<https://doi.org/10.1038/s41564-020-0709-x>).
- Taxonomic proposals submitted over the previous year were reviewed by the ICTV Executive Committee during its 51st annual meeting in Berlin, Germany in July 2019 and ratified by electronic ballot by the ICTV membership in March 2020. The current virus taxonomy (Master Species List #35) is available online at <http://ictvonline.org/virusTaxonomy.asp>.
- The ICTV Online (10th) Report on Virus Taxonomy is now available and freely accessible at <http://ictv.global/report>. ICTV Study Groups are currently updating the information in chapters from the 9th Report over a three-year cycle, as well as producing chapters for newly created viral taxa.
- Summaries of the Online Report chapters are published in the *Journal of General Virology* ICTV Virus Taxonomy Profiles section. These summaries are linked to the full Online Report chapters on the ICTV website and are indexed in PubMed.

17. Reports from Representatives to outside organizations

f) *Biological & Chemical Defence Review – Jon van Hamme*

I hereby submit to the CSM-SCM a report on the activities of the Biological and Chemical Defence Review Committee (BCDRC) for the period April 1, 2019 – March 31, 2020. In this reporting period the BCDRC comprised Dr. Heinz-Bernhard Kraatz (University of Toronto), Dr. Jonathan Van Hamme (Thompson Rivers University; representing the Canadian Society of Microbiologists), Dr. Heather Durham (Montreal Neurological Institute; representing the Society of Toxicology of Canada, and Chair), and Executive Officer Brigadier General (ret'd) James Selbie. Our arm's-length website can be found at <http://www.bcdrc.ca/> with links to formal, public reports.

The mandate of BCDRC is to provide an independent, third-party review of the Biological and Chemical Defence (BCD) research, development and training activities undertaken by the Department of National Defence (DND) and the Canadian Armed Forces (CAF) with a view to assessing whether these activities are defensive in nature, and are conducted in a professional manner with minimal risk to public safety and the environment. Recent conflicts reported in the news involving the use of biological toxins, documented use of chemical weapons, and potential use of biological agents makes the Committee's work ever more important and relevant.

Between April 2019 and March 2020 the BCDRC completed numerous visits and inspections at DND establishments, Defence Research and Development Canada (DRDC) sites and other institutions involved in BCD research. A full report of the Committee's diverse activities can be found at: <http://bcdrc.ca/annual-reports/>.

During its 2019 visits the Committee was satisfied that DND and the CAF are maintaining a purely defensive policy in biological and chemical warfare research, countermeasures, surveillance and training; that such research is compliant with Canada's obligations as a signatory state to the Biological Weapons Convention and Chemical Weapons Convention; and that such research does not pose a threat to public safety or the environment. Based on observations during the course of its visits, the Committee made several recommendations published in its 2019 Annual Report on the BCDRC website.

As is for all, our 2020 activities are being adjusted in response to travel restrictions resulting from the COVID-19 pandemic. We plan to carry out our mandate to the best of our abilities in the upcoming year.

17. Reports from Representatives to outside organizations

g) *ASM International Membership Comm. & Ambassador to Canada – Christine Szymanski*

This is my third year as ASM Ambassador to Canada. Each year, the Ambassadors submit requests to ASM for support of the CSM Annual Conference. Previously, the country ambassador has submitted a grant to fund the ASM Student Poster Prize at the CSM Annual Conference. The young ambassador submits a grant to fund a CSM/ASM student networking event. The work plans and funding requests are due by the end of January (decisions are sent early March) and the ambassadors work together with the local organizing committee on these submissions. There are also opportunities to request funds for special ASM lectures or sessions at the CSM Annual Conference or if anyone is interested in organizing a microbial specialty meeting in Canada. For these opportunities, you would need to contact the ambassadors prior to January 30 of the year you are planning to host a meeting. This year, I submitted a request for one Student Poster Prize. ASM has agreed to again fund the request (1 membership and e-book, a combined \$250 value) awarded at the Canadian Society

of Microbiologists Annual Conference. ASM is also sponsoring the CSM/ASM student trainee event at the CSM Annual Conference that will be described in more detail by our new Youth Ambassador, Thomas Finn - I wanted to also welcome him and mention it was a shame that I did not get the opportunity to meet him personally at CSM this year. This year will be my final year as the ASM Ambassador since typically representatives serve 3-year terms. I am happy to continue in this role for another 3-year term, unless we want to consider replacing me with another CSM member.

17. Reports from Representatives to outside organizations

h) *ASM Young Ambassador to Canada – Thomas Finn*

Not available

17. Reports from Representatives to outside organizations

i) *Partnership Group in Science and Engineering – PAGSE – Thien-Fah Mah*

PAGSE Annual Activity Report

1 June 2019 – 31 May 2020

The Partnership Group for Science and Engineering (PAGSE; www.pagse.org) is a cooperative association of national organizations in Science and Engineering. It was formed in June 1995 at the invitation of the Academy of Science of the Royal Society of Canada. The national organizations that comprise PAGSE represent almost 60,000 individual members from industry, academia, and government sectors. We work collectively to represent the Canadian science and engineering community to the Government of Canada, and to advance research and innovation for the benefit of Canadians. PAGSE is *not* a lobby group. It does not seek an audience to advance the cause of specific science and engineering initiatives. Rather, its intent is to address the broader issues of science and engineering policy at the national level and to inform parliamentarians on topics of science and engineering.

Members and Representatives

On May 1, 2019, Jerome Marty, Council of Canadian Academies, assumed the role of Chair of PAGSE.

A full list of PAGSE Member Organizations and Representatives can be found in Appendix I below.

Organizational Update

Recent events demonstrate that it is now more important than ever for senior decision-makers to have access to the latest research in science and engineering. The level of access will shape the post-COVID recovery, and will help Canada's Parliamentarians move forward on other looming crises such as climate change and senior care. While PAGSE's normal external activities were quite intermittent this year, first interrupted by the fall 2019 election and now the COVID-19 pandemic, several management projects are underway, including updating the website, branding, and exploring incorporation as an official non-profit organization. These initiatives will promote the visibility of PAGSE in the future. PAGSE is also gearing up for the next SciEng Page issue, and the Bacon and Eggheads Committee, based on direct feedback from MPs and Senators, is finalizing plans to take the breakfast series virtual until it is safe to resume in person meetings.

Bacon & Eggheads

PAGSE (*in partnership with its supporting organizations, listed in Appendix I below*) presents a monthly breakfast meeting on Parliament Hill, known as “Bacon and Eggheads”. Speakers at the meetings inform parliamentarians about recent advances in science and engineering. Due to the fall election and the COVID-19 pandemic, in 2019-2020 PAGSE was able to host Dr John Smol from Queen’s University. The remaining events that were scheduled for Spring 2020 have been postponed as noted below.

[The “fierce urgency of now”: Lessons for Canada from the ghosts of climate past](#)

John Smol, Queen’s University

Thursday, February 20, 2020

Using Light to Save the Planet: Photonics for the Environment – POSTPONED to April 22, 2021

Donna Strickland, University of Waterloo. ~~Thursday, March 26, 2020~~

Pain, Sex and Death – POSTPONED until further notice

Jeff Mogil, McGill University, ~~Thursday, April 23, 2020~~

SciEng Pages

SciEng Pages is an initiative undertaken by PAGSE to provide brief, evidence-based assessments of topical science and engineering topics to Parliamentarians and the public. PAGSE has obtained seed funding for the next edition of SciEng Pages and is currently soliciting proposals from member organizations for topics and expert contributors.

To view all the SciEng Pages publications please visit the SciEng Pages website. <http://sciengpages.ca/> or <http://sciengpages.ca/fr/>

PAGSE Council Meetings

Guests, representing science and engineering in the government and industry sectors, are invited to PAGSE Council meetings to present their perspectives on science and engineering in Canada, on the activities of their organizations, as well as the potential issues and challenges that they would like to see PAGSE address. Members also consider federal activities and reports and how best to promote and sustain Canada’s scientific base. During the last year PAGSE has welcomed the following guests:

- December 9, 2019: **Jeff Kinder**, Director, Institute on Governance
- May 8, 2020: **Jeremy McNeil, John Smol, Darren Gilmour** - Royal Society of Canada

Meetings with Other Organizations

- January 2020: Royal Society of Canada
- February 2020: National Research Council of Canada
- April 2020: Canadian Federation for Earth Sciences Annual General Meeting
- April 2020: Engineering Institute of Canada Annual Council Meeting

Submissions to Parliamentary Committees and Consultations

PAGSE will prepare briefs to respond to calls for consultations from the government (<http://www.consultingcanadians.gc.ca/>) when the topic is broad and there is a science/engineering component. Yearly, PAGSE will submit a brief to House of Commons Standing Committee on Finance in response to the questions provided in the pre-budget consultations. [Our submissions are available on the PAGSE website.](#)

APPENDIX I

PAGSE Members

Canadian Academy of Engineering (Representative: *Robert Crawhall*)
Canadian Aquatic Resources Section of the American Fisheries Society (Representative: *Caleb Hasler*)
Canadian Association of Physicists (Representative: *Francine Ford*)
Canadian Conference for Fisheries Research (Representative: *Steven Cooke*)
Canadian Council of University Biology Chairs (Representative: *vacant*)
Canadian Federation of Earth Sciences (Representative: *Chris Burn*)
Canadian Geophysical Union (Representative: *Rich Petrone*)
Canadian Meteorological and Oceanographic Society (Representative: *Gordon Griffith*)
Canadian Physiological Society (Representative: *Catherine Chan*)
Canadian Rivers Institute (Representative: *Glenn Benoy*)
Canadian Society of Microbiologists (Representative: *Thien-Fah Mah*)
Canadian Society of Plant Biologists (Representative: *Owen Rowland*)
Canadian Society of Zoologists (Representative: *Katie Gilmour*)
Canadian Society for Ecology and Evolution (Representative: *vacant*)
Canadian Society for Molecular Biosciences (Representative: *Imogen Coe*)
Chemical Institute of Canada (Representative: *Ian Jobe*)
Engineering Institute of Canada (Representative: *Branislav Djokic*)
IEEE Canada (Representative: *Kexing Liu*)
Society of Canadian Limnologists (Representative: *Jérôme Marty*)
Statistical Society of Canada (Representative: *Jack Gambino*)

Supporting Organizations

Canadian Science Publishing
CANARIE Inc.
Coherent Advice
Genome Canada
International Development Research Centre
Natural Sciences and Engineering Research Council (NSERC)
TD Bank