

Canadian Association of Palynologists
Association Canadienne des Palynologues

NEWSLETTER

Volume 42

Number 1

May 2019

President's Message

This newsletter comes at that exciting time of the year that for many is associated with the beginning of, or preparations for, a new field season. For others, the end of the academic year brings more time for research-related activities. On May 14, we took advantage of the spring transition to hold the 2019 Cap Annual General Meeting, during the GAC-MAC-IAH. The executive committee reported a healthy association with positive response from members. Detailed reports are included in this issue.

During the meeting, we discussed the next AGM's location. The 15th International Palynological Congress (IPC-XV 2020) joint with the 11th International Organisation of Palaeobotany Conference (IOPC-XI 2020) was proposed as a potential venue. This meeting will be held in Prague, from 12 to 19 September 2020. Members will be solicited via email to express their views. We encourage all who may have ideas and suggestions to be in touch with us.

On behalf of all CAP members, I would like to thank the members of the executive committee for their remarkable work. Thank you to Anna Pieńkowski (President-elect), Florin Pendea

(Newsletter Editor), Jessie Vincent (Secretary-Treasurer), Manuel Bringue (Website editor) and Francine McCarthy (CAP Councillor to IFPS). Your dedication, self-motivation, time investment and professionalism are truly appreciated and allow the association to maintain its healthy position within the community and contribute to strengthening links between palynologists from across Canada and beyond.

This year again, we received strong applications for the CAP student award. It is my pleasure to congratulate our 2019 awardee Emily Ellefson, from University of Calgary and the Geological Survey of Canada, Calgary for her research entitled Early Cretaceous in the Richardson Mountains (Northwest Territories, Canada): palynological insights on the tectono-stratigraphic architecture of the Canadian Arctic mainland. I take on the opportunity to thank Emily for her presence during the AGM, and all applicants and the evaluation committee for contributing to this high-quality competition.

Finally, we encourage all who would like to volunteer and step in for any given position of the executive committee to express their interest. We are notably seeking applications for a new President-Elect, as Anna will take up the role of President at the end of my mandate in January 2020. Similarly, we encourage all members to connect with us and provide feedback and ideas to strengthen networking and promote the domain of palynology. Please do not hesitate to use our website, bi-annual newsletter and twitter account to share content and opportunities.

We wish you a great summer!
Sincerely,

Audrey Limoges
University of New Brunswick, Fredericton

CAP EXECUTIVE 2018

President: Audrey Limoges
President elect: Anna Pieńkowski
Secretary-Treasurer: Jesse Holst Vincent
Website Editor: Manuel Bringue
Newsletter Editor: Florin Pendea
IFPS Councillor: Francine McCarthy

Editor's Notes

Thank you to all who contributed material for this edition of the *CAP Newsletter*:

M. Bringué, V. Bryant, E. Ellefson, K. Gajewski, A. Limoges, F. McCarthy, P. Richard, J. Smol, J. Holst Vincent.

Deadline for Next CAP Newsletter

Please submit items for the next issue of the *CAP Newsletter* (Volume 42, Number 2, December 2019) by November 10, 2019. Conference reports, announcements, field trip reports, notices of new books, dissertation abstracts, book reviews, news, and essays on topics relevant to Canadian palynology are all welcome. Please send contributions to:

Florin Pendea
CAP Newsletter Editor
ifpendea@lakeheadu.ca

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CAP STUDENT

AWARD

I am pleased to share with you that the 2019 CAP Student Competition received several applications from a diverse group of meritorious grad students. The Awards Selection Committee had a difficult job choosing among many strong candidates, but in the end the CAP Student Prize was awarded to Emily Ellefson, a MSc student from University of Calgary and the Geological Survey of Canada (Calgary).

Emily's thesis, titled "Early Cretaceous in the Richardson Mountains (Northwest Territories, Canada): palynological insights on the tectono-stratigraphic architecture of the Canadian Arctic mainland" focused on the Sverdrup Basin, underlying the Canadian Arctic Islands, and looked at a record of the Early Cretaceous (sub-Hauterivian) breakup unconformity associated with the opening of the Arctic Ocean and the Amerasia Basin. In the Richardson Mountains (northern Yukon and Northwest Territories), the coeval Mount Goodenough Formation also contains a large Hauterivian unconformity. We aim to determine if the two unconformities can be correlated to aid in the determination of tectonic events in mainland Arctic/subarctic

Canada. We plan to accomplish this using primarily palynology with a quantitative statistical approach to correlate floras between both localities, shedding new light on the timing and paleoenvironments associated with the

Czech Republic (a country rich in plant fossil finds, palynological sites, and palynological and palaeobotanical history) to host the leading experts in various disciplines, and to promote scientific innovations. Joint symposia are planned to foster interaction and integration between palynologists and palaeobotanists, as well as plenary sessions of general interest.

Palyinfo

Mark your calendars



Excerpt from the First Circular

Since 2009, the world community of palynologists and palaeobotanists has met every four years to discuss the latest research, and to exchange experiences. The 15th International Palynological Congress (IPC-XV 2020) and the 11th International Organisation of Palaeobotany Conference (IOPC-XI 2020) are coming soon. This joint congress will be held in Prague, from the 12th to the 19th of September 2020, hosted by Czech palynologists and palaeobotanists. In 1820, a binomial nomenclature for fossil plants was used for the first time by the “Father of Palaeobotany” Caspar Maria Sternberg, when publishing *Flora der Vorwelt*. We are delighted to dedicate this meeting in honour of 200 years of Palaeobotany.

It will be an excellent opportunity for the

The meeting is promoted by the collective efforts of the International Federation of Palynological Societies (IFPS) and the International Organisation of Palaeobotany (IOP).

Please complete the pre-registration form on our website:
<http://prague2020.cz/registration.php>

Canadian palynologists recognised for their contribution to the discipline

On April 3, 2019, two well-known palynologists and associates from the Geological Survey of Canada (GSC) were recognised at the GSC Logan Day celebration. **Rob Fensome** and **Graham Williams**, along with retiree and current volunteer **Bill MacMillan** and the late **Nelly Koziel** (GSC-Atlantic), were awarded a Golden Logan Medallion for their long-term contribution beyond the GSC to the field of palynology.

The award is named after Sir William Edmond Logan, the founder and first director of the GSC, the oldest science-based department in Canada.



From left to right: GSC-Atlantic director Stephen Locke just handed out their Logan Medallions to Graham Williams, Rob Fensome and Bill MacMillan.

Logan Medallions are awarded in recognition of people's achievements, and the citation for our heroes of the day reads as follows:

"Microfossils are a fundamental tool for age control in sedimentary basins, especially offshore. Decades of work at GSC Atlantic organizing the taxonomy of microfossil dinoflagellates has allowed Canadian and international researchers to communicate effectively and develop their science using consistent taxon names. Two published works specifically, led out of GSC Atlantic, have received wide international acclaim in industry, academia and government, and continue to be widely cited in works worldwide on dinoflagellates. One, "The Lentin and Williams Index of Fossil Dinoflagellates", nearing its 10th edition, with its parallel database DINOFLAJ, has become a fundamental tool of this research. The second, "A classification of fossil and living dinoflagellates", received the Paleontological Society's Golden Trilobite Award, and is

a key reference for most systematic dinoflagellate studies."



The Golden Logan Medallion

Rob Fensome and Graham Williams, the lead players behind the influential contributions mentioned above (e.g., http://dinoflaj.smu.ca/dinoflaj3/index.php/Main_Page), need no further introduction (see for instance <https://capacp.wordpress.com/library-resources/palynological-personalities/g-l-williams/#interview>).

Bill MacMillan put his talents in graphic design to good use in all major projects, producing the majority of species sketches and polishing figures. The late Nelly Koziel also worked behind the scenes and typed the early Lentin & Williams Indexes, in the old days when entries were written on index cards.

But beyond the obvious gratification that such awards can provide, Rob and Graham were particularly enthused that micropaleontology be recognised. After several decades of diminished funding and research capacity, in both the federal and academic realms, the outlook for (micro)paleontology is suddenly brighter. "Things are looking up", says Rob, and we all take that at heart.

Please join me in congratulating the recipients on their award and achievements!

Manuel Bringué
Geological Survey of Canada – Calgary

Thank you to our donors!!

The Canadian Association of Palynologists would like to express our gratitude to the generous donations made by some of our colleagues. We would like to acknowledge the financial donations made by **Thomas Demchuk, Russ Harms, Carl Jonsson, and Diana Tirlea.**

Donations are to be used for increasing the value of the CAP student prize. Contributions of any amount are highly appreciated and can be done during membership payment or at any time by contacting Jessie Vincent. More information can be found on our website: <https://capacp.wordpress.com/membership/>

Graduate Opportunity

PhD opportunity based at University of New Brunswick, Joint with Université du Québec à Rimouski-ISMER

As part of a large cross-disciplinary Arctic-Net-funded study, we invite applications for one full-time PhD position that will document the long-term evolution of sea-surface conditions and primary production in northern Baffin Bay in relation to the climate variability of the past 2000 years. This study will be based on the analysis of microfossils (dinoflagellate cysts or diatoms) and geo-

chemical proxies applied to a series of marine sediment cores collected in northern Baffin Bay and near the entrance to Jones Sound.

More information about the position and application procedure can be found at: https://www.unb.ca/fredericton/science/depts/earth-sciences/_resources/pdf/openphdposition_limoges.pdf

CAP Member recognised for lifelong achievements

Dr. Vaughn Bryant Jr. from Texas A&M University was recently awarded the Reagent Professorship. The prestigious award is given once a year from candidates selected among the 2,800 faculty from the 14 universities in the Texas A&M System. The title is for life.



Dr. Vaughn Bryant, Reagent Professor at Texas A&M.



Dissertation

Masters of Science Thesis: Late Holocene environmental change across the Canadian Arctic

Camille Tamo

Department of Geography,

University of Ottawa

Supervisor: Konrad Gajewski

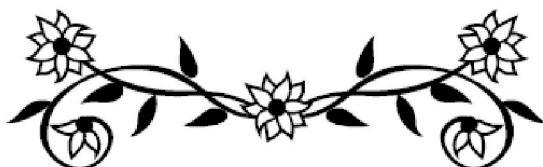
Abstract.

Lake sediment cores spanning the last 2000 years from four sites across the Canadian Arctic Archipelago (CAA) document the responses of terrestrial and freshwater ecosystems to regional climate variability. Biogenic silica (BSi) records in cores from Banks Island, NWT (Lake B503; 72.3245, -123.4036, 84 masl), Bathurst Island, Nunavut (PR01; 75.6497, -99.1144, 30 masl), Prince of Wales Island, Nunavut (SW08; 72.3177, -97.2678, 104 masl), and Ellesmere Island, Nunavut (CV03; 79.9211, -82.9348, 363 masl) were used to examine the relationship between diatom production and climate. A pollen record from Prince of Wales Island provided the first high-resolution July temperature recon-

struction for the last 1000 years for the central CAA.

Dissolution was evident in three out of the four lakes; core SW08 contained no BSi above detection and cores CV03 and PR01 only contained values above detection in the uppermost sediments, suggesting that the preservation of biogenic silica (BSi) in the sediment is likely influenced by sedimentary carbonates. A BSi sequence from core B503 showed that diatom production was affected by climate changes such as the Medieval Climate Anomaly and the Little Ice Age.

The vegetation on southern Prince of Wales Island underwent marked transitions during the Little Ice Age and Medieval Climate Anomaly, which was mainly observed in the proportion of Cyperaceae and Poaceae. The mean July temperature reconstruction showed a long-term cooling from 1080-1915 CE with a sustained cold period from 1800-1915 CE prior to 20th-century warming. A synthesis of paleoclimate records from across the Arctic demonstrated that pollen-based reconstructions record both high and low frequency climate variability, when sampling resolution is sufficient, and can improve regional climate reconstructions.





Recent Publications

Ferguson, C. and I.F. *Pendea. 2018. Identifying glacio-isostatic rebound processes using testate amoeba as palaeohydrological proxies; a case study from subarctic Québec, Canada. *Revista de Geomorfologie*, 20(1): 5-16.

Fréchette, B., P.J.H. *Richard, P. Grondin, M. Lavoie et A. C. Larouche, 2018. Histoire postglaciaire de la végétation et du climat des pessières et des sapinières de l'ouest du Québec. Gouvernement du Québec, ministère des Forêts, de la Faune et des Parcs, Direction de la recherche forestière, Mémoire de recherche forestière No 179, xvii+165 pages. Suppléments: 84 pages.

*Gajewski, K, B Kriesche, M *Chaput, R Kulik, and V Schmidt. 2019. Human vegetation interactions during the Holocene in North America. *Vegetation History and Archaeobotany* doi:10.1007/s00334-019-00721-w – OPEN ACCESS

*Gajewski, K. 2019. Environmental History of the Northwestern Québec treeline. *Qua-*

ternary Sciences Reviews 206:29-43. <https://doi.org/10.1016/j.quascirev.2018.12.025>

*Smol, J.P. 2018. A crisis in science literacy and communication: Does reluctance to engage the public make academic scientists complicit? *Facets* 3: 952–957 | DOI: 10.1139/facets-2018-0022. Open access at: <https://www.facetsjournal.com/doi/full/10.1139/facets-2018-0022>.

Țutuianu, L., A. Vespremeanu-Stroe, I.F. *Pendea, and T. Sava. 2018. Mid and Late Holocene evolution of Brăteș Lake region (Danube floodplain) based on the multi-proxy analysis. *Revista de Geomorfologie* 20 (2): 43-55.

CAP President-Elect Nominations now Open!

The Canadian Association of Palynologists is inviting nominations for the position of President-Elect.

Please send your nominations (or self-nominations) to CAP president Audrey Limoges Audrey.Limoges@unb.ca no later than August 1st, 2019.

Audrey will leave her position on January 1st, 2020, and the presidency will be assumed by Anna Pieńkowski.

Thank you
The CAP Executive

Editorial:

Crawford Lake: the story of the Anthropocene from the Canadian Heartland

There is no doubt that Crawford Lake has been a major landmark for Canadian paleoenvironmental and geoarchaeological research since the late 1960s, when Maria Boyko convinced her supervisor Jock McAndrews that the abundant large grains

of grass pollen well below the *Ambrosia* rise in her sediment core were *Zea mays*.

McCarthy and colleagues are participating in an effort to define a new geological epoch with a GSSP (Global Stratotype Section and Point). The Anthropocene Working Group (established by the Subcommission on Quaternary Stratigraphy chaired by Martin Head) recently voted in favour of placing the base of this epoch in the mid-20th century <https://www.nature.com/articles/d41586-019-01641-5>. This is the so-called Great Acceleration, a mid-20th century phenomenon associated with global industrialization, commercialization and a large increase in energy use, recorded by carbonaceous particles and



A drone captures aerial footage of the coring at Crawford Lake on February 20, 2019. Scientists from Carleton and McMaster Universities and Conservation Halton participated in the Brock University-led initiative to characterise the sediments and the unusual hydrology of the deep basin of Crawford Lake. Photo credit: Mercury Films.

abundant microplastics – together with nuclear fallout (137Cs peaked in 1963 due to nuclear proliferation during the Cold War). Freeze coring, led by Tim Patterson and his students from Carleton, preserves the delicate varves filled with information about what has been happening to our world since man decided to “hit the gas” hard.

The annually laminated sediments are the main reason this deep, meromictic basin of Crawford Lake has the potential to become a type section for the base of this new epoch; “Hundreds of years from now, people will be able to come here to find 1950 and that’s the important thing,” said McCarthy in an interview with Hamilton Spectator. Other advantages include its location in a protected area managed by Conservation Halton, but with easy access for scientists and non-scientists alike. Additionally, recent measurements of the water column have revealed that the bottom waters are actually well oxygenated (contrary to decades of assumption) and because many of the products of nuclear fallout are readily mobilized in anoxic conditions, the unique (and yet to be fully understood!) varving mechanism is another asset.

A film crew from Mercury Films, a Toronto-based filmmaker, joined McCarthy and colleagues in the field to record the collection of the GSSP candidate cores in February of this year. Their most recent film

“Anthropocene: The Human Epoch”, which premiered at the Toronto International Film Festival last September, is part of a multimedia project that includes a travelling museum exhibition of photographs, short films and augmented reality. It has also been featured

at the Art Gallery of Ontario and National Gallery of Canada, and was on display in Bologna, Italy, in April. International news outlets, such as Aljazeera, have broadcast this great project to a large international audience (https://www.youtube.com/watch?v=endGnyQ70Sc&feature=push-fr&attr_tag=0DRiLRyE1vPmXHqz%3A6)

McCarthy and Head recently attended a workshop in Berlin funded by the *Haus der Kulturen der Welt*. This organisation is also funding ongoing analyses at each potential candidate site to assist the Anthropocene Working Group (AWG) in submitting a formal proposal to the International Subcommission on Quaternary Stratigraphy and subsequently the International Commission on Stratigraphy to define the Anthropocene Epoch. Crawford Lake is not – as you can imagine – the only candidate for the Anthropocene reference site and many other locations around the world are seeking the same “glory”. Yet, the unique geographical and limnological conditions of the lake makes it a prime candidate..

Please join me in congratulating Francine and her colleagues for this outstanding work. More information on the project and its media coverage can be found at the links below:

<https://brocku.ca/brock-news/2018/08/brock-led-team-collects-samples-at-crawford-lake-to-explore-possible-anthropocene-reference-site/>

<https://brocku.ca/brock-news/2019/03/film-crew-joins-crawford-lake-research-efforts/>

Florin Pendea
CAP Newsletter Editor

2019 CAP ANNUAL GENERAL MEETING AGENDA AND MINUTES

May 14, 2019
Québec City, QC

AGENDA

- 1) Acceptance of agenda
- 2) Reading of the minutes of the 2018 Annual General Meeting, Calgary, AB
- 3) Business arising from minutes
- 4) President's report, Audrey Limoges
- 5) Secretary/Treasurer report, Jessie Holst Vincent
- 6) Auditor's Statement, Terri Lacourse
- 7) Newsletter Editor's report, Florin Pendea
- 8) Website Editor's report, Manuel Bringué
- 9) CAP Councillor to IFPS's report, Francine McCarthy
- 10) Applications CAP student award
- 11) Timing of AGM
- 12) Location for the 2020 AGM
- 13) Priorities and Goals
- 14) Other Business
- 15) Adjournment

MINUTES

Members present (in person or via Skype*): Audrey Limoges* (Chair), Manuel Bringué* (Recording Secretary), Emily Ellefson*, Jessie Holst Vincent*, Francine McCarthy, Florin Pendea*. Quorum reached.

Meeting called to order by Audrey Limoges, 11:00 am ET.

1. Acceptance of agenda

Audrey L. asked for additions to the agenda, none were proposed. Manuel B. moved to accept the agenda, seconded by Florin P. Agenda accepted.

Agenda and all reports from the Executive are appended to the minutes.

2. Reading of the minutes of the 2018 Annual General Meeting, Calgary, AB

Audrey L. read the 2018 AGM minutes out loud. Minutes accepted unanimously.

3. Business arising from minutes

Following on the topic raised at the 2018 AGM, a discussion was held about the possibility to establish fixed terms for positions on the CAP executive. Members present highlighted the difficulty to find volunteers and members of the executive in place should continue to serve if they are still willing to, as is currently practiced. Florin P. emphasized that a call for volunteers should still be made amongst the CAP membership, at least at every AGM. Consensus was reached on continuing current practices.

4. President's report, Audrey Limoges

CAP President Audrey L. read her report in which she highlighted the low number of applications to the CAP award in the 2019 competition. The association's website and Twitter account are good platforms to promote the award in the future. Audrey L. extends her thanks to the hard-working members of the executive.

5. Secretary/Treasurer report: Jessie Holst Vincent

CAP Secretary/Treasurer Jessie V. delivered her report, starting with welcoming three new members. Membership was low at the time of the meeting but this was rather due to the early date of the AGM. Jessie V. had several members contacting her since she wrote the report and membership is on track to be at least at par with last year's numbers. Jessie V. thanked the first two donors to the CAP Student Award, Thomas Demchuk and Diane Tirlea. Francine M. suggested to include a note in the Newsletter about these donations as they greatly help the association. It was agreed to acknowledge people

who also contribute in other ways (e.g., postage to send Newsletters to National Library [Florin] and checks [Jessie]). CAP dues to IFPS are now paid, thanks to Francine M. who put Jessie V. in touch with Jim Riding, with CAP catching up on fees for the last two years only. Jessie V. calculated that a membership of 38 is needed to maintain balance in CAP's bank account. Jessie V. was thanked for her continued great work as CAP Secretary/Treasurer.

6. Auditor's Statement, Terri Lacourse

Auditor's Statement was read by Audrey L. and accepted unanimously; Terri L. was thanked for her review.

7. Newsletter Editor's report, Florin Pendea

CAP Newsletter Editor Florin P. reported on only one new issue (December 2018 Newsletter, Vol. 41, No.2) since the last AGM, due to the early date of the 2019 AGM. Florin deeply thanked all contributors and highlighted Francine M.'s journal-quality contribution on freshwater dinoflagellates, among others.

Florin P. suggested to include a biographical piece on some renown Canadian palynologists in a future issue of the newsletter, emphasizing the importance of recognizing people's contributions to the domain of palynology. The idea was very well received and some names were already suggested.

8. Website Editor's report, Manuel Bringué

CAP Website Editor Manuel B. reported a healthy state for the CAP website, with a slight increase in views worldwide. No increase in views prior to the CAP Student Award deadline of March 1st was observed; rather, viewers seemed to be more consistently accessing the site throughout the year. Manuel B. suggested to include a link to the CAP Twitter account and encouraged members to contribute pictures to enhance the appearance and appeal of the website. The Opportunities page is also back online and

members are encouraged to populate it. Jessie V. raised the important point that the Membership form on the website needs to be updated to reflect new costs as voted at the 2018 AGM in Calgary.

9. CAP Councillor to IFPS's report, Francine McCarthy

CAP Councillor to IFPS Francine M. reported on re-established contact with IFPS, with the Association now being in good standing on the international front. CAP's membership gives members access to *PALYNOS*, a real mine of information. The next IPC will be held in Prague in Sept. 2020, which is a possible venue to consider holding the next CAP AGM.

Motion by Francine M. to accept all reports, seconded by Jessie V. All reports accepted.

10. Applications CAP Student Award

Florin P. commented on the fact that the process surrounding CAP Student Award may be too close to the Executive and that the association would benefit from opening it up, especially when evaluating and ranking applications. Audrey L. reassured that no direct conflict of interest exists since supervisors of students who submit applications have never been asked to review applications. Francine M. suggested to make it a practice to ask other CAP members (not sitting on the Executive) to review applications, and have members of the Executive review applications only if no other volunteer could be found. It was also suggested to reach out beyond CAP members as well as to past recipients, which could also help increase membership numbers and/or renewals.

Florin P. moved on the fact that CAP henceforth asked the wider CAP membership to review CAP Student Awards applications, seconded by Francine M. Audrey L. moved to vote, seconded by Manuel B. Vote was unanimously in favor and CAP will adopt this strategy going forward.

11. Timing of AGM (with regard to financial reporting)

Jessie V. explained that reporting on finances by calendar year, as opposed to ever-changing time intervals between consecutive AGMs, would make financial reporting more consistent, as is considered best practice in the accounting world. The Secretary / Treasurer would also provide an update for each AGM. Consensus was reached on reporting CAP finances by calendar year.

12. Location for 2020 AGM

The XV IPC (Prague, Czech Republic, Sept. 12-19 2020) was proposed as a possible venue for the 2020 CAP AGM, but CAP members should be consulted before making a decision. A note will be included in the next Newsletter and an email will be sent to all members for suggestions and preferences. [Florin P. and Jessie V. had to leave the meeting at this point.]

13. Priorities and goals

The following points were discussed:

M. Bringué noted that the field of Paleontology in general is looking on the upside, which bodes rather well for the future of the association and its members.

Broad priorities should remain the same (in particular attracting and retaining members, promoting the CAP Student Award). CAP is a small but healthy association.

It was suggested to invite applications or nominations for the position of President -Elect (which will become vacant when Audrey L. steps down as President and is relieved by current President-Elect Anna Pienkowski on January 1, 2020) in the next issue of the CAP Newsletter.

14. Other Business

No other business arose.

15. Adjournment

Francine M. moved to adjourn the AGM, seconded by Manuel B. Meeting adjourned at ~ 12:15 pm ET.

CAP EXECUTIVE REPORTS

CAP President's Report

The following consists of a brief report on CAP activities since the last AGM in Calgary, Alberta (August 7, 2018).

This year's CAP student research award attracted fewer students than previous years. Despite the fact that the price was augmented to \$500 and a three-year membership of the association, only three students applied. It should be noted however that the three applicants submitted high-quality applications. For this year again, increasing the number of CAP members represents a priority for the association – this could in part be achieved by an increased visibility and retention of members. Both the CAP website and new twitter account, recently set up by Florin Pendea in Fall 2018, are good platforms to reach this objective and are contributing to CAP's visibility. The option of paying membership fees for three years also should aid in retaining membership numbers at a higher level.

I would like to thank all members of the executive committee for their hard work. Many thanks to Anna Pieńkowski (president-elect), Jessie Holst Vincent (secretary-treasurer), Florin Pendea (newsletter editor), Manuel Bringué (website editor) and Francine McCarthy (CAP councillor to IFPS). I would also like to thank Terri Lacourse for providing this year's auditor letter.

Respectfully submitted,



Audrey Limoges
CAP President
May 11, 2019

CAP Secretary/Treasurer Report

1. Membership

We would like to welcome our newest members Kelsey Koerner, Scott Cocker, and Emily Ellefson. As of 28 April 2019 CAP has 25 members in good standing. Membership is low at this time, however, I sent the membership dues reminder later than usual and the CAP AGM is earlier than usual. Memberships tend to trickle in over a few months and I expect the numbers to increase.

2. Financial Report

On behalf of CAP, I would like to thank Thomas Demchuk and Diane Tirlea for their donations to the CAP student award. Francine McCarthy has contacted the IFPS Secretary-Treasurer, Dr. Jim Riding, on my behalf. Thank you to Francine her assistance. Dr. Riding has kindly suggested that CAP catches up on our fees for the last two years only, to avoid hardship as we have not paid since 2016. IFPS fees are calculated as \$1.50/member in USD. All calculations to follow are based on a payment for 2018-2019 only. The 28 April 2019 balance in the CAP account is 6820.43 \$ (vs. \$6710.43 at the time of the 2018 Financial Report). The balance does not yet reflect withdrawal of the CAP student award (\$485 = \$500-2019 membership fee) or IFPS dues which will be approximately \$106.50 USD (\$146.97 CAD) plus bank transfer fees for 2018 and 2019.

After the CAP student award and IFPS fees are paid, I anticipate a bank balance of approximately \$6190. We need to attract 38 members per year to maintain our bank balance while covering IFPS dues and the

\$500 student award. Our low expenses, increased membership fee and current membership levels provide us with the ability to run a small deficit for several years before we reach a \$5000 bank balance at which time we must also pay bank fees.

Recommendations

1. CAP should pay for two years, rather than three, to the IFPS, given that we continue to run a deficit and we are striving to support student research with our \$500 student prize.
2. CAP should market our CAP student award more effectively and enforce membership before submission of award applications.
3. Careful monitoring of the membership numbers and financial statements will become necessary as we approach the \$5000 no-fee ban account minimum.

Respectfully submitted,
 Jessie Vincent
 CAP Secretary-Treasurer
 28 April 2019

Auditor's Report

May 5th, 2019

Dr. Audrey Limoges
 President
 Canadian Association of Palynologists

Dear Dr. Limoges,
 I have reviewed the financial documents of the Canadian Association of Palynologists for the period from July 21, 2018 to April 28, 2019 that were provided to me by the Association's Secretary/Treasurer. These documents consist of a Bank of Montreal

statement, a spreadsheet of financial transactions including membership dues and student award donations, and a financial statement and 2019 Annual General Meeting report from the Secretary/Treasurer.

These documents represent a full and fair account of the financial affairs of the Association for the time period noted above. The financial affairs of the Association are in good order.

Sincerely,

Terri Lacourse, PhD
Associate Professor
Department of Biology
University of Victoria
Victoria, BC
V8W 2Y2

CAP Newsletter Editor's Report

Since my last report, one issue of the CAP Newsletter was produced. The December 2018 Newsletter (Vol. 41, No. 2) had 31 pages and was distributed to CAP members on Wednesday, December 26, 2018. Most notably, the December 2018 newsletter included an article by Francine McCarthy, titled "Palynology in Canada", featuring a historical account of research on freshwater dinoflagellates and their cysts. This issue also included a conference report by Kimberley Bell and Manuel Bringé with news from the 51st Annual Meeting of AASP-The Palynological Society and the Annual General Meeting of the Canadian Association of Palynologists (CAP) in Calgary.

As per CAP Bylaws, this issue contained the minutes of the 2018 CAP Annual General

Meeting held on August 7 in Calgary, AB.

I would like to remind our members that our past Newsletters are available in electronic format on the CAP website. Contributions for the next issue of the Newsletter will be accepted until May 10, 2019.

Respectfully submitted,
Florin Pendea
Orillia, April 29, 2019

CAP Website Editor's Report

The association maintains a healthy online presence through CAP's website (capacp.wordpress.com), hosted by WordPress since January 2017. Since the last reporting period, the website was accessed 1660 times (July 2018 – Apr. 29 2019), with an average of ~166 monthly views, representing a 12% increase compared to the last reporting period. The most visited pages over the last year are the Home page (443 views), Palynology laboratories in Canada (141), CAP Newsletters (119), Membership (115) and Student Award (106 views).



Fig. 1. Total monthly views (all pages combined) from January 2016 until Apr. 29, 2019. Current reporting period indicated with red rectangle; data included in Fig. 2 indicated with green rectangle.

As in previous reports, most viewers accessed the site from Canada, but the website also attracted viewers from the US, UK, In-

dia and several other countries spread over all continents (Fig. 2). Note that there is some overlap with previous reporting period in the data presented in Fig. 2.

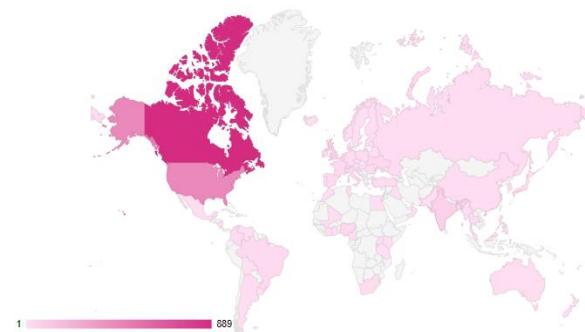


Fig. 2. CAP website views per country over the year (last 365 days) ending on Apr. 29, 2019. Out of a total of 1963 views, Canada had 889, the US 430, the UK 76, India had 65, and all other countries identified on the map had less than 35 views. Total views for 2018 were 1967, and the site has 709 views so far in 2019.

Thus, the website continues to serve effectively as a repository for CAP-related activities and resources relevant to palynology in Canada. I invite members who are looking for students or contracts, or are aware of hiring opportunities that may be of interest to the palynological community to contact me for postings on the website's Opportunities page. The website would also benefit from pictures of palynomorphs from the membership to help making it more visually appealing. Suggestions are welcomed! I look forward to continuing serving the association and to helping promote our fascinating field of study!

Respectfully submitted,
Manuel Bringué
CAP Website Editor
April 29, 2019

IFPS Councillor's report

I am happy to be serving as councillor to IFPS for CAP, having filled that role previously for AASP. I have contacted President J.-N. Haas (long-time CAP member) and Secretary-Treasurer J. Riding who have welcomed us back to IFPS after a few years of lapsed membership, as you will see as a substantial debit in our finances for this year. Our membership gives us access to PALYNOS as soon as it is published, but back issues are available to those of you who did not receive access through other palynological society memberships at <https://palyno-ifps.com/palynos/>.

The major initiative of the IFPS currently is the upcoming congress: the XV IPC, to be held in Prague, Czech Republic, Sept. 12-19, 2020. It is a celebration of 200 years of paleobotany to be held jointly with the International Organization of Palaeobotany. Information is available on their website www.prague2020.cz/.

I will continue to update the CAP membership on IFPS initiatives and I encourage you to submit any news items that might be of international interest to PALYNOS (as well as to the CAP Newsletter, of course!).

Respectfully submitted,
Francine McCarthy
IFPS Councillor



CAP MEMBERSHIP FORM

Canadian Association of Palynologists / Association Canadienne des Palynologues (CAP) membership is open to all members of the palynological community in Canada and others with an interest in Canadian palynology. The Association is dedicated to the advancement and encouragement of all aspects of palynology in Canada and the promotion of co-operation between palynologists and those engaged in related fields of study. Membership dues include two issues a year of the *CAP Newsletter*, to which all members are invited to contribute. CAP is affiliated with the International Federation of Palynological Societies (IFPS) and members receive two issues of the IFPS newsletter (*PALYNOS*) each year.

CAP membership dues are \$15 per year in Canadian or US funds payable at the beginning of the year. Lapsed members are removed from the mailing list after one year, following a reminder. Members may, if they wish, pay for up to three years in advance for a reduced amount of \$40. To join or renew, please fill out this membership form (by hand or in Adobe Reader®) and send your payment *via* either: a) a cheque (Canadian bank only) or money order payable to CAP along with your form, or b) an Interac e-Transfer to:

Dr. Jessie Holst Vincent, CAP Secretary-Treasurer, c/o Prof. Francine McCarthy,
Dept. of Earth Sciences, Brock University, St Catharines, ON, L2S 3A1, CANADA

Name: _____

Affiliation: _____

Address: _____

Tel: _____ Fax: _____

E-mail: _____

Research interests: _____

Do you want to make a donation towards the Annual CAP Student Research Award?

Yes No Amount: _____

New membership Renewal Total amount enclosed: _____

If you are the head of a palynology laboratory in Canada, may we include your name/address/research interests/webpage in the online "Directory of Canadian Palynology labs" on the CAP website? Yes No

Lab page URL: _____

Do you permit your name/address/email address to be included in the printed "World Directory of Palynologists" being compiled by IFPS? Yes No