Submissions

Submissions and ideas for publication are appreciated. They should be sent to the editor:

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Advertising Rates

Inserts and non-advertising submissions (including letters to the editor) should be negotiated with the Secretary. Inquiries about deadlines, payment and acceptable formats should be directed to the Secretary.

Publication Information

The Canadian Applied and Industrial Mathematics Society / Société Canadienne de Mathématiques Appliquées et Industrielles (CAIMS•SCMAI) is a member society of the International Council for Industrial and Applied Mathematics (ICIAM). The newsletter is published at least once a year.

Editor: Christina Christara
Original Design: Justin Wan
Design & Production: Christina Christara
Photographs: CAIMS•SCMAI

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**Reports from the Society**

Board of Directors .................. 2
Minutes of 2020 AGM ................. 7
Committee Members ................. 16

**Society Updates**

CAIMS•SCMAI Awards ............... 17
2021 Election – Call for Nominations ................. 19

**General News**

About this issue .................... 20

**Back Cover**
CAIMS•SCMAI 2021 Announcement
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Minutes of the CAIMS•SCMAI Annual General Meeting

Tuesday, July 7, 2020 via zoom
originally planned at University of Toronto, Toronto

1. CAIMS•SCMAI President Thomas Fillen called the meeting to order at 12:10 PM ET.

2. Quorum was established.

3. The meeting was constituted.

4. Approval of the Minutes of the AGM of June 9, 2019:
The minutes were circulated electronically to members with the Notice of Meeting ahead of time.

5. Business Arising From the Minutes:
None.

6. President’s report (Thomas Hillen):
CAIMS*SCMAI has become a significant presence in industrial, scientific, and technological circles within and outside Canada. It serves the industrial and applied mathematics community in many ways. In the last year we have been very active on behalf of science and the scientific community.

Equity Diversity Inclusion and Racism
We are shocked and saddened at the repeated occurrences of racism in North America. CAIMS condemns all forms of racism and we are committed to be welcoming and supportive of all, without regard to race, religion, gender, or sexual orientation!
Many CAIMS activities over the past year were geared specifically to address inequalities and unconscious biases.

- Several years ago CAIMS released an ethical guideline as guiding principle for activities of the society. This guideline has now been published as the second CAIMS blog and is easily available on our website.
- Conferences and workshops that we support all adhere to principles of equity, diversity and inclusion.
- A CAIMS blog on “His and Her Mathematics” by Anita Layton has been published.
- Special consideration to accommodate parents with children at home during CAIMS board meetings.
• Rebecca, Jacques and I are applying to NSERC for a new Communication grant, focussing on diversity and unconscious biases. More in Rebecca’s report.

These efforts are critical, and we must both continue and expand this work, as it seems that we will always be challenged by bias and preconceptions. Our goal is a society that is just, open, and safe for everyone - there is no alternative.

Annual meetings

• The CAIMS-SCMAI Annual Meeting 2019 in Whistler BC, organized by Weiran Sun and Manfred Trummer (SFU) and their team, was a real highlight of the year.

• The 2020 meeting had its particular challenges, and I am very happy that so many of us have worked together to get this online meeting off the ground. It is particularly important for the next generation of scientists to not miss a conference season. Colleagues who finish their PhD, look for postdoc positions, look for faculty positions and look for tenure all need to be able to be seen and heard. Please make sure to continue to support the next generation during this conference and attend their talks. Thank you all for your support!

• CAIMS/SCMAI 2021 University of Waterloo (Anita Layton, Brian Ingalls, Justin Wan)

• CAIMS/SCMAI 2022 is considered to be held in Kelowna, BC, at UBC-Okanagan

CAIMS/SCMAI Awards

It is unfortunate that we cannot present the CAIMS*SCMAI awards in person this year. It is impressive to see the accomplishments of all of our nominees and I am grateful to the work of the selection committees. Thank you very much for your work on these important distinctions!

• CAIMS/SCMAI Research Prize: Steven Ruuth (SFU) In recognition of his outstanding contribution to the development of robust numerical methods for time dependent partial differential equations and interfacial dynamics, and the impact of his work in scientific computing.

• CAIMS-Fields Industrial Mathematics Prize: Vakhtang Putkaradze (UofA and ATCO) In recognition of his many contributions to geometric mechanics and
its novel industrial applications, and his ability to straddle both the theoretical and the industrial aspects of mathematical discovery.

- CAIMS/PIMS Early Career Award: Jun Liu (U Waterloo) In recognition of his contributions to mathematical control theory for cyber-physical systems, using innovative approaches that combine theoretical depth and computational analysis, applied to problems that are of practical importance.

- Arthur Beaumont Distinguished Service Award: Raymond Spiteri (U Sask) In recognition of his outstanding service to CAIMS/SCMAI as member and chair of the Doctoral Dissertation Award committee, organizer and regular contributor of Annual Meetings, co-founder of the CAIMS/SCMAI journal, Mathematics in Science and Industry, for spearheading improvements to CAIMS/SCMAI operations, and for his leadership as President-Elect, President, and Past-President.

- CAIMS Cecil Graham Dissertation Award: Nadia Shardt (U of A) In recognition of an extraordinarily thorough thesis with strong scientific merit in multiple areas where multicomponent, multiphase systems arise, including chemical engineering, medical research, and nanotechnology.

Thanks again for the tremendous work of the committee members, and congratulations to the prize winners! Please consider nominating somebody for the next round. Nominations are due by the end of January.

**MSI (Mathematics in Science and Industry)**

- The first issue of MSI is now online! It has been published as volume 4 (6) 2019 of AIMS AIMS Mathematics.
- AIMS Mathematics is now fully indexed!
- We currently have four submissions to a special issue by Roi Sun.
- We are always accepting new submissions for MSI.
- MSI and MASE. MASE = Mathematics Applied to Science and Engineering was started last year under the leadership of Xingfu Zou. It came out of a collaboration with Chinese Universities, who wanted an open access journal for their work. There is very little relation to MSI and a collaboration does not seem appropriate at the moment.

**CMS/CAIMS Book Series**

- The new CMS/CAIMS Book Series with Springer has now started.
• CAIMS/SCMAI is represented by two chief editors: Nilima Nigam (SFU) and Frithjof Lutscher (Ottawa), and three Associate Editors: Ben Adcock (SFU), Matt Davison (Western), and Ray Spiteri (Saskatchewan). I like to thank them for serving as editors.
• Please, consider sending your next book project to one of them.

CAIMS-blog
Last year we started a CAIMS-blog. A CAIMS-blog gives members the opportunity to explain concerns that are of interest to society from a scientific point of view. It is a way that our community can participate in discussions of global relevance. So far we have

1. Welcome message
2. CAIMS/SCMAI Ethical Guideline
3. Fighting Coronavirus with Mathematics (Dan Coombs)
4. His and Her Mathematical Models (Anita Layton)
5. Are We There Yet? Decision Making Under Extreme Uncertainty in the COVID-19 Pandemic (Solymos, Lele, Lemzouji)
6. A Mathematical Record From the Pandemic (Anthony Bonato)
7. Planned: The Diversity of Statistics and Myopia of Mathematicians (John Braun)
8. Planned: Challenges of interdisciplinary work (Rebecca Tyson)
9. Planned: Math and Technology (Hassan Safouhi)

CAIMS Membership Fees
Proposal to increase membership fee:

• We had some significant expenses on the new website and the new bylaws.
• There are new recurring costs for lawyers fees and accountants.
• Increased publication efforts (journal, blog, book series).
• We are currently the lowest, so we might as well increase.

Current membership fees in comparison

• SIAM $164 US
• AMS $153 US
• CMS $208-$312 CAD
• Soc. Math. Biol. $75 US
• GAMM, Gesellsch. Angew. Math and Mech. 100 Euro
• Australian MS: $148 AUS

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<thead>
<tr>
<th>Fee</th>
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<th>Proposed</th>
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<td>Regular</td>
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<td>75</td>
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<tr>
<td>Lifetime</td>
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<td>1000</td>
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<tr>
<td>Retired lifetime</td>
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<td>300</td>
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<tr>
<td>Student etc.</td>
<td>20</td>
<td>30</td>
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<tr>
<td>SIAM members</td>
<td>42</td>
<td>70% of 75</td>
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<td>GAMM members</td>
<td>40</td>
<td>2/3 of 75</td>
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<tr>
<td>Industrial members</td>
<td>300</td>
<td>450</td>
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<tr>
<td>Institutional</td>
<td>100 or 200</td>
<td>200 or 300</td>
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MOTION: I move that these fee-changes be presented to the AGM for a vote to approve them. Discussion about fee structure. Clarification that membership fees do not pay HST, while conference registrations pay HST. Suggestion to consider to increase individual and institutional membership fees. Proposed change of MOTION: Regular membership $80 (and accordingly SIAM 70% of 80 and GAMM 3/4 of 80). Moved by T. Hillen, Seconded by R. Tyson, Carried (16 yes, 3 abs.).

Miscellaneous

• Agreement with CMS office to help us with our accounting and tax reporting.
• CAIMS supported the conference Foundations of Computational Mathematics at SFU.
• CAIMS supports an online COVID-19 Epidemiology Seminar Series.
• CAIMS ran the CAIMS-PIMS Coronavirus Modelling Conference in June 2020.
• CAIMS - Distinguished Math Biology lectures series
• CUMC (Canadian Undergraduate Mathematics Conference)
• Math Education Matters (organized by Hongmei Zhu, math outreach program for high school students). The online component took place, the in-person event was canceled.

Closing
As you see, the Society is alive and active. This could not be done without the
involvement of every member of the Society, for example in award committees, organizational committees, editorships, and the CAIMS board. I thank you all for your involvement and I am looking forward to see all of you - in person - at the next meeting!

MOTION to accept President Report: Moved by T. Hillen, Seconded by R. Tyson. Carried.

7. **President-Elect’s report (Rebecca Tyson)**

**Committees**

I found volunteers for all of the prize committees and the membership committee. A few changes had to be made under some time pressure in February once the nominations were received and conflicts-of-interest were created. See attached spreadsheet for final list of committee members.

One committee chair suggested that it would be helpful if last-minute February changes could be avoided. Suggestions:

a) create an LOI process with submissions due fairly early (I was filling committees in October and November). b) ??? (I don’t have any other ideas at the moment)

Discussion of a two-tier process. It was agreed that such a change creates to much additional work and is not needed.

**Mentorship**

With Jacques Bélair, I applied for an NSERC Science Communications Skills Grant in order to run an online workshop next spring that is aimed at improving public science communications skills among graduate students, faculty, and post-docs. I have received financial support from two science deans, and am hopeful that more can be secured. Jacques Bélair is running the workshop on the French side. Funding will be announced mid-July. If we are unsuccessful, we will try to run a scaled-down version of the workshop by using university media departments and knowledgeable faculty. There may be other resources that we can tap into as well. We will be looking for volunteers to help me with this effort later in the summer.

MOTION to accept President Elect Report: Moved by R. Tyson, Seconded by T. Hillen. Carried.
8. **Past-President’s report**

   - Provided wise counsel to the CAIMS Executive

9. **Treasurer’s report**

   Financial summary:

   **Income**
   - Regonline $78,173
   - Memberships $10,833
   - From Societies $1789
   - Other $1626
   - Total $92,441

   **Expenses**
   - Meeting Expense $94,299
   - Sponsored events $3200
   - Admin costs $11,901
   - Total $109,330

   Draft of review engagement is enclosed.

   **MOTION:** Maintaining Michael Northcote as our chartered accountant. Moved by D. Iron, Seconded: Ion Bica. Carried

   **MOTION:** Approve a Review Engagement Report for next year. Moved by D. Iron, seconded by: Christina Christara.

   Discussion of compilation report versus a review engagement. Our discussion is based on a draft version as the full review engagement is not yet finished by the accountant. Carried.

   **MOTION** to accept Treasurer report Report: Moved by D. Iron, Seconded by Ion Bica. Carried.

10. **Communications Officer’s report (Kathleen Wilkie)**

    1. Website. The new website had a make-over
    2. Front page redesigned
    3. CAIMS BLOG added
    4. Page updates were made to prize / award pages, committee pages, blogs, e-news, etc
5. Several software updates made to wordpress
6. Switch over from old server (CACloud) to new server (SiteGround) completed, website and domain now both with SiteGround
7. Domain name - next payment due September 1, 2021 ($20 USD / year)
8. Web hosting services - next payment due May 1, 2022 ($1000 USD / 3 years)
9. Several social media posts (facebook) promoting the new website, new journal, blog, new programs in Canadian Universities, or job opportunities
10. Award nominations were opened / closed and packages distributed to committees. Award plaques were ordered for the 2020 winners and mailed directly to the winners.
11. Levin Fest (2019) videos were added to the CAIMS YouTube channel. New content welcome (especially with the ability to record virtual talks now).

MOTION to accept Communication Officer Report: Moved by K. Wilkie, Seconded by T. Hillen. Carried (16 yes, 1 abs).

11. Secretary’s report (Justin Wan)

E-News & Annual Newsletter
Since AGM last year, there were 9 issues of E-News sent out. The main contents were announcements of CAIMS activities as well as events from other institutions. There has been a trend of receiving fewer announcements from members in the past few years. The Annual Newsletter was sent out in December, 2019. It included reports from the Society, memberships of various Committees, recent award recipients, and general news from CAIMS sponsored activities and other institutes and societies.

Mailing List & E-Voting
The CAIMS mailing list is completely derived from the CAIMS member database. Last year, membership registration has moved from RegOnline to Cvent. The transition was generally smooth. However, it still requires manual effort to update the CAIMS mailing list which sits on a different server. Discussion should continue in the future how the CAIMS mailing list can be updated automatically from the CAIMS member database. The voter list is also updated annually and manually for the online voting system. It is usually updated at the same time as the CAIMS mailing list, around early March. Only current CAIMS members are eligible to vote.
Election
CAIMS Election was held in April 2020 for three positions on the Board of Directors: Secretary and two new Directors. Jacques Bélair was elected Secretary (three years) by acclamation. Justin Wan will step down as CAIMS Secretary who served in the past 5 years.

There were three nominees for the two Director positions (Christina Christara, Alexey Shevyakov, Diana White). The votes were collected and tallied by the online system. The candidates with the highest votes were Christina and Alexey. They will join the Board of Directors for a three-year term. We thank Diana White for standing. We also thank Ray Spiteri and Olga Trichtchenko for their service as interim Directors.

MOTION accept the votes for the new Executive. Moved: J. Wan, seconded T. Hillen, Carried.

The election results will be ratified by the CAIMS members at the Annual General Meeting on July 7, 2020. This year, we have a total of 87 members voted, which is about the same as last year (94). The total number of eligible voters is 195, and the voting rate is around 45%. The voting rates were 43% in 2019 and 38% in 2018.

Personal words
Five years of CAIMS secretary has been a privilege and pleasure. Learned a lot of new things and had the chance to meet wonderful people at CAIMS. Thanks for all your support.

MOTION to accept Secretary Report: Moved by J. Wan, Seconded by C. Christara Discussion if personal CAIMS meeting attract new members, which we were missing this year. Carried.

T. Hillen thanks Justin for his many years of service as CAIMS secretary. T. Hillen thanks Ray Spiteri and Olga Trichtchenko for their service as interim Directors.

12. Other Business and Termination of Meeting
No other business.

Meeting adjourned: Moved T. Hillen, Second C. Christara, carried. 2:30 MST.
Committee Membership

1. **Cecil Graham Doctoral Dissertation Award Committee:**
   Matthew Betti (Mount Allison), Colin Macdonald (UBC), Yana Nec (Thompson Rivers), Stephanie Portet (Manitoba), Pouria Ramazi (Alberta).

2. **Arthur Beaumont Distinguished Service Award Committee:**
   Pauline van den Driessche (Chair, Victoria) Gerda de Vries (Alberta), Hao Wang (Alberta).

3. **CAIMS Research Prize Committee:**
   Matthew Betti (Chair, Mount Allison), Jimmy Garnier (CNRS), Anita Layton (Waterloo), Yana Nec (Thompson Rivers), Steve Ruuth (SFU).

4. **CAIMS-PIMS Early Career Award in Applied Mathematics:**
   Connell McCluskey (Chair, Wilfrid Laurier, CAIMS), Sue Ann Campbell (Waterloo, CAIMS), Bahman Gharesifard (Queen’s, CAIMS), Stephanie Portet (Manitoba, PIMS), Weirun Sun (SFU, PIMS).

5. **CAIMS-Fields Industrial Mathematics Prize:**
   Kumar Murti (Chair, Toronto, Fields), James Feng (UBC), Ian Frigaard (UBC, CAIMS), Kirsten Morris (Waterloo, CAIMS), Catherine Sulem (Toronto).

6. **Membership Committee:**
   Amy Hurford (Chair, Memorial), Alexander Bihlo (Memorial), Colin Macdonald (UBC), Rebecca Tyson (UBC-Okanagan).

7. **CAIMS 2021 General Chairs:**
   Brian Ingalls (Waterloo), Anita Layton (Waterloo), Justin Wan (Waterloo).
2020 Arthur-Beaumont Distinguished Service Award

The Arthur Beaumont Distinguished Service Award honours members of CAIMS•SCMAI for outstanding service to the society or to Applied Mathematics in Canada. The award is named after its first recipient, and was initiated as a means to honour Arthur for his years of unselfish service to the society.

This award is given to Prof. Raymond Spiteri in recognition of his outstanding service to CAIMS•SCMAI as member and chair of the Doctoral Dissertation Award committee, organizer and regular contributor of Annual Meetings, co-founder of the CAIMS•SCMAI journal, Mathematics in Science and Industry (MSI), for spearheading improvements to CAIMS•SCMAI operations, and for his leadership as President-Elect, President, and Past-President.

2020 CAIMS-Fields Industrial Mathematics Prize

The CAIMS-Fields Industrial Mathematics Prize is awarded to a researcher in recognition of exceptional research in any branch of industrial mathematics, interpreted broadly, and conducted primarily in Canada.

In 2020, the CAIMS-Fields Industrial Mathematics Prize is awarded to Prof. Vakhtang Putkaradze (UofA and ATCO) in recognition of his many contributions to geometric mechanics and its novel industrial applications, and his ability to straddle both the theoretical and the industrial aspects of mathematical discovery.
2020 CAIMS-PIMS Early Career Award in Applied Mathematics

The CAIMS-PIMS Early Career Award is given to a researcher less than ten years past the date of Ph.D. at the time of nomination. The prize recognizes exceptional research in any branch of applied mathematics, interpreted broadly. The nominee’s research should have been conducted primarily in Canada or in affiliation with a Canadian university.

The 2021 CAIMS-PIMS Early Career Award in Applied Mathematics was awarded to Prof. Jun Liu (U Waterloo) in recognition of his contributions to mathematical control theory for cyber-physical systems, using innovative approaches that combine theoretical depth and computational analysis, applied to problems that are of practical importance.

2020 CAIMS·SCMAI Research Prize

The CAIMS·SCMAI Research Award is the society’s preeminent research award, established to recognize innovative and exceptional research contributions in an emerging area of applied or industrial mathematics.

The 2020 CAIMS·SCMAI Research Prize was awarded to Prof. Steven Ruuth (SFU) in recognition of his outstanding contribution to the development of robust numerical methods for time-dependent partial differential equations and interfacial dynamics, and the impact of his work in scientific computing.

2020 CAIMS·SCMAI Cecil Graham Doctoral Dissertation Award

The Cecil Graham Doctoral Dissertation Award recognizes the most outstanding Ph.D. thesis in Applied Mathematics defended at a Canadian University during the calendar year prior to the year of the award. We receive a good number of nominations every year for this award, and the quality of the nominees is extremely high.

The 2020 Cecil Graham Doctoral Dissertation Award was awarded to Dr. Nadia Shardt (U of A) in recognition of an extraordinarily thorough thesis with strong scientific merit in multiple areas where multicomponent, multiphase systems arise, including chemical engineering, medical research, and nanotechnology.
CAIMS·SCMAI 2021 Election: Call for Nominations

by Christina Christara

CAIMS·SCMAI will be holding an election in April 2021 for:

- Three Member-at-Large positions on the Board of Directors
- President-Elect
- Secretary
- Communications Officer

The three member-at-large positions will fill the positions to be vacated by Christina Christara, who is candidate for secretary, covering the position vacated by Jacques Bélair (two years remaining), and Ben Adcock and Brian Wetton, whose terms will come to an end in 2021. However, they are willing to continue their role. The member-at-large positions will be for two-year term.

This year we have an open President-Elect position, and the usual “shifting” of the current President to Past-President, and the current President-Elect to President. Past-President Matt Davison’s term ends in 2021. The President-Elect appointment will be for a two-year term.

The Communications Officer position will fill the position to be vacated by Kathleen Wilkie, and the appointment will be for a three-year term.

All members of CAIMS·SCMAI are invited to put forward names of candidates for these offices. Nominations should reach the CAIMS Secretary, at (secretary@caims.ca) by March 31, 2021.
About this issue

by Christina Christara, CAIMS•SCMAI Secretary

This issue comes out about a year later than it should. It is now end of 2021, and it ought to come out end of 2020. The disruption caused by the pandemic did not allow the CAIMS•SCMAI Board in 2020 to prepare the issue on time. However, having been elected as a new Secretary, I felt, and the CAIMS•SCMAI Board agreed, that even a late publication of this issue is useful as it serves continuity, and allows the archive of CAIMS•SCMAI to be complete, with all members serving in various positions listed, prizes awarded highlighted, and the minutes of the AGM displayed. Furthermore, it shows the resilience of CAIMS•SCMAI to the pandemic and beyond.

Best wishes to all members, with health and high spirit.

Christina Christara
CAIMS · SCMAI 2021 Annual Meeting

University of Waterloo
Waterloo, ON, Canada

June 21-24, 2021

https://uwaterloo.ca/canadian-applied-industrial-math-society-annual-meeting-2021/