

President’s Report

To begin, I would like to thank Sam Shen for four years of outstanding service to the Society—two years as President-Elect and two as President. Sam, of course, will remain on the Executive for another two years as Past-President. I look forward to his advice, guidance and continuing hard-work for the Society.

I also wish to take this opportunity to congratulate Sam on his recent election as Vice-President of the Canadian Mathematical Society (CMS). I am sure that he will help to strengthen the already good relationship between CAIMS and CMS.

I would also like to thank Anna Lawniczak for her many years of service to the Society. Anna has worked harder than anyone else I know in furthering the aims of the Society. In recognition of her exceptional contributions to the Society, she was given the Arthur Beaumont Distinguished Service Award at our AGM in Montréal last June. At that meeting, she retired as Past-President of CAIMS and stepped down from the Executive. However, Anna has a wealth of knowledge about the Society and I intend to call on her frequently for her wise counsel.

I also wish to thank the retiring Board Members, Anthony Peirce and Gordon Swaters for their contributions to the Society.

I congratulate Bill Langford on his recent election as President-Elect of the Society as well as Bob Russell, Jianhong Wu and Jack Macki on their election to the CAIMS Board of Directors. I look forward to working with them as well as Mike Foreman and Sue Ann Campbell, who, I am very glad to say, are continuing in their positions as Treasurer and Secretary, respectively, and Serpil Kocabiyik, Paul Muir and John Stockie, who are continuing as members of the CAIMS Board.

As Sam Shen notes in his Past President’s Report in this Newsletter, when he assumed the Presidency of the Society two years ago, he announced three goals: (1) to increase the number of CAIMS members, (2) to enhance the visibility and recognition of CAIMS prizes and awards, and (3) to enhance relationships with relevant societies and government agencies. Although, as Sam elucidates in his report, we have made very good progress on each of these goals, there is more to be done on each of them. Therefore, I will adopt these same goals for my Presidency. In this regard, I look forward to a very exciting joint meeting with CMS next June at Dalhousie University in Halifax. I hope to see you there.

I have been a member of CAIMS since I was a graduate student, over twenty years ago. I greatly appreciate the efforts of all the CAIMS members who have worked so hard over the past two and a half decades to advance Applied Mathematics in Canada. It is a great honour for me to serve CAIMS now. I look forward to working with you to build an even stronger Society.

*Sincerely,
Ken Jackson
CAIMS•SCMAI President*



From the Past President

When I took the presidency two years ago at Victoria, I set up three goals with the Board of Directors: to increase the number of CAIMS members, to enhance the visibility and recognition of CAIMS prizes and awards, and to enhance relationships with relevant societies and government agencies. Our progress towards the three goals has been encouraging. This report summarizes the CAIMS operations in the past two years and contains three parts: internal operations, participation in national and international activities, and inter-institute collaborations.

For internal operations, Sue Ann Campbell has made the ENews an effective media for applied and industrial mathematics information and has made the hardcopy Newsletter close to self-sufficient by attracting advertisements and by using the Ontario inter-university mail system. In early 2002, James Treacy, Sue Ann, and Mike Foreman set up the CAIMS independent websites: www.caims.ca (English) and www.scmαι.ca (French). James also set up a very useful database for CAIMS members' statistics and registration. This database enables the Treasurer to enter the membership-application data locally and allows the data to be shared immediately by authorized users such as the Secretary and President. Mike Foreman set up the VISA and Master Card payment system for CAIMS in 2001, which has proven to be convenient for payment of membership fees. Selection of a Doctoral Dissertation Award (DDA) is always an important work for CAIMS routine operations. During the last two years John Stockie has made a huge difference for the DDA. At a minimal cost, he redesigned the DDA advertisement and distributed it widely. Thesis submission was good in both years, and in 2003, the DDA committee received 8 theses for competition, a historical high. The DDA Committee, consisting of John Stockie, Bob Russell, and Gordon Swaters, did an outstanding job! Also for the DDA, Serpil Kocabiyik raised \$1,000 from Memorial University of Newfoundland in 2002 and I raised \$1,000 from the University of Alberta in 2003. In the campaign of driving up the number of CAIMS members Ken Jackson has been instrumental. Serpil Kocabiyik successfully convinced all the applied mathematics graduate students at Memorial University of Newfoundland to join CAIMS in 2002 and Matt Davison recruited 13 new members from the University of Western Ontario in 2003. A CAIMS display booth was set up at the 2003 MITACS annual meeting and attended by my students and myself, resulting in several new members being recruited. I am also on the Membership Committee, and I often email or talk to individuals to remind them of their renewal or to persuade them to become lifetime members. Anthony Peirce chaired the CAIMS Research Prize. He and John Stockie designed and distributed the advertisement of the prize in 2002. An excellent winner has been selected. Bill Langford has chaired the Arthur Beaumont Distinguished Service Award Committee and made a great selection of the winners for both 2003 and 2004. Ken Jackson has been a great help to me, stepping in as the Acting President on several occasions when I traveled to China. Anna Lawniczak provided some knowledge on the CAIMS by-laws.

With regard to participation in national and international activities, CAIMS has been involved in the activities of various academic organizations and societies. Anthony Peirce represented CAIMS at the Canada-China 3+3 Conference in Vancouver in 2001. Ken Jackson represented CAIMS at the Fields Institute's 10-year anniversary in Toronto in 2002. I represented CAIMS at the Inaugural Ceremony of the Banff International Research Station (BIRS) in 2003 in Banff, Alberta. I also represented CAIMS at the MITACS Interchange and the banquet in the honor of the Director of the Pacific Institute for the Mathematical Sciences (PIMS)

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in Ottawa this May. Jacques Bélair just recently represented CAIMS at the Director’s reception of the Centre de Recherches Mathématiques (CRM). Sue Ann Campbell and Bill Langford represented CAIMS at the annual Nerenberg Lecture in 2002 and 2003, respectively. Jianhong Wu represented CAIMS at the 2003 Canadian Undergraduate Mathematics Conference. Bob Russell represented CAIMS at the ICIAM’s annual business meeting in Helsinki in 2001 and in Tokyo in 2002. Paul Binding and Tony Ware hosted a great annual meeting in Calgary in 2002. Paul used about a half of his sabbatical time for organizing the conference. Jacques Bélair co-chaired the first joint 2003 CAIMS-SIAM annual meeting. He had worked tirelessly with his US counterpart in setting up the scientific programs and solving numerous problems for the meeting. Anne Bourlioux also contributed to the organization of the meeting in many ways, including managing the student-travel awards and coordinating the Student Poster Session. Other CAIMS people in the CAIMS-SIAM 2003 Organizing Committee are Bob Russell and myself, who have helped to organize several mini-symposiums.

As for the inter-institute collaboration, our working relationship with MITACS has been enhanced. Thanks to John Stockie for his active participation in the activities of both sides. He is now the Deputy Scientific Director of MITACS. I often communicate with Arvind Gupta, the MITACS Scientific Director, and discuss strategies for mutual support between CAIMS and MITACS. CAIMS successfully nominated Arvind to give an invited lecture at the ICIAM’s industrial workshop in Sydney, Australia, 2003. He talked about *Establishing industry-academic projects in the mathematical sciences: a Canadian perspective*. Our bond with CMS is also getting stronger. I became the CMS Vice-President (Western Provinces) on July 1, 2003. The 2004 CAIMS-CMS in Halifax joint meeting is well planned. Our connection with SSC is also improving. James Ramsay, the SSC President, and I have many common interests in research, and we have talked about possible CAIMS-SSC joint workshops or meetings. CAIMS always participates with CMS and SSC when the BIRS, CRM, Fields, and PIMS have major activities. The CAIMS annual meeting grant from the National Program Committee, managed by the three institutes, has become a routine.

CAIMS’ prospects in the years to come appear promising. CAIMS is a young and growing society. Progress has to be made every year in order for CAIMS to one day become a large society like CMS or SSC. Because of the characteristics of a growing society, CAIMS’ operation has some differences from those of CMS and SSC and requires creative initiatives, operational strategies, and personal devotion. Many challenges and opportunities await CAIMS in the future. Among the challenges and opportunities, the fundamentals are still the following three: membership increase, sponsored CAIMS•SCMAI prizes and awards, and enhanced relationships with relevant societies and government agencies.

To all the individuals who have contributed to CAIMS, I would like to say *thank you* many times. In particular, I would again like to say to Sue Ann and Mike that *it is great working with you, and thank you for your collaboration in the last two years*.

*Sincerely,
Samuel Shen
CAIMS•SCMAI Past President*



President

Ken Jackson
Department of Computer Science
University of Toronto
Toronto, Ontario M5S 3G4
Phone: 416-978-7075
E-mail: krj@cs.utoronto.ca
Fax: 416-978-1931
Term ends: CAIMS • SCMAI 2005



President-Elect

William Langford
Department of Mathematics and Statistics
University of Guelph
Guelph, Ontario N1G 2W1
Phone: 519-824-4120 ext. 53289
Fax: 519-837-0221
E-mail: wlangfor@uoguelph.ca
Term ends: CAIMS • SCMAI 2005



 Board of Directors

Past President

Sam Shen
 Department of Mathematical Sciences
 University of Alberta
 Edmonton, Alberta T6G 2G1
 Phone: 403-492-0216
 E-mail: shen@ualberta.ca
 Term ends: CAIMS•SCMAI 2005

**Secretary**

Sue Ann Campbell
 Department of Applied Mathematics
 University of Waterloo
 Waterloo, Ontario N2L 3G1
 Phone: 519-888-4567 ext 5461
 Fax: 519-746-4319
 E-mail: sacampbell@uwaterloo.ca
 Term ends: CAIMS•SCMAI 2005

**Treasurer**

Michael Foreman
 Institute of Ocean Sciences
 PO Box 6000
 Sidney, British Columbia V8L 4B2
 Phone: 250-363-6306
 Fax: 250-363-6746
 E-mail: ForemanM@pac.dfo-mpo.gc.ca
 Term ends: CAIMS•SCMAI 2005



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Member at Large

Serpil Kocabiyik
Department of Mathematics and Statistics
Memorial University of Newfoundland
Saint John's, Newfoundland A1C 5S7
Phone: 709-737-8790
Fax: 709-737-3010
E-mail: serpil@math.mun.ca
Term ends: CAIMS•SCMAI 2004



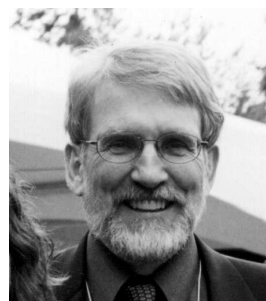
Member at Large

John Stockie
Department of Mathematics
Simon Fraser University
Burnaby, British Columbia V5A 1S6
Phone: 604-291-3331
Fax: 604-291-4947
E-mail: stockie@math.sfu.ca
Term ends: CAIMS•SCMAI 2004



Member at Large

Jack Macki
Department of Mathematical & Statistical Sciences
University of Alberta
Edmonton, Alberta T6G 2G1
Phone: 780-492-5725
Fax: 780-492-6826
E-mail: jmacki@ualberta.ca
Term ends: CAIMS•SCMAI 2005



 Board of Directors

Member at Large

Paul Muir
 Department of Mathematics and Computing Science
 St. Mary's University
 Halifax, Nova Scotia B3H 3C3
 Phone: 902-420-5794
 Fax: 902-420-5141
 E-mail: paul.muir@stmarys.ca
 Term ends: CAIMS•SCMAI 2005

**Member at Large**

Bob Russell
 Applied and Computational Mathematics Program
 Simon Fraser University
 Burnaby, British Columbia V5A 1S6
 Phone: 604-291-4819
 Fax: 604-291-4947
 E-mail: russell@cs.sfu.ca
 Term ends: CAIMS•SCMAI 2006

**Member at Large**

Jianhong Wu
 Department of Mathematics and Statistics
 York University
 North York, Ontario M3J 1P3
 Phone: 416-736-2100 Ext. 33116
 Fax: 416-736-5757
 E-mail: wujh@mathstat.yorku.ca
 Term ends: CAIMS•SCMAI 2006



**Minutes of CAIMS • SCMAI General Meeting
Held Monday June 16, 2003
St. Charles Room, Fairmont Queen Elizabeth Hotel
Montréal, Quebec**

1. The incoming president, Professor Ken Jackson of the University of Toronto, took the Chair and called the meeting to order at 12.07 P.M. Twenty-five members of the Society were in attendance.
2. It was moved by Michael Foreman and seconded by Bill Langford that the agenda be approved as written. The motion carried.
3. It was moved by Paul Sullivan and seconded by John Stockie that the minutes of the General meeting held on Sunday, June 9, 2002 be approved as written. The motion carried.
4. There were no matters arising from the minutes.
5. The outgoing president, Sam Shen, presented his report. Highlights are included below. Details will appear in the Fall Newsletter.

President Shen began by reviewing his goals for CAIMS • SCMAI for the two years of his presidency:

- (a) to increase the number of members;
- (b) to enhance the visibility and recognition of the Society’s prizes and awards;
- (c) to enhance the Society’s relationships with relevant societies and government agencies.

The President reviewed the progress which had been made on the five objectives set up with the Board to work toward the goals.

- (i) To reach 300 paid members. The President indicated that while we have not yet reached this objective, we are doing very well with 236 individual members and 20 institutional members.
- (ii) To increase the Society’s bank account by \$10,000. The President indicated that the bank account has increased by \$40,000.
- (iii) To achieve good recognition of the Doctoral Dissertation Award (DDA) and Research Prize. The President noted that both awards were widely advertised this year, with the result that a record number of theses (eight) were submitted for the DDA.
- (iv) To enhance the Society’s relationship with other relevant societies. The President indicated that the 2004 meeting will overlap with the MITACS AGM, which should help increase the participation by grad students, and with the Canadian Undergraduate Mathematics Conference, which should help increase the participation by undergraduates. The President indicated that he will be a VP for the Canadian Mathematical Society (CMS) and will work to promote the importance of Applied Mathematics in the CMS. The President noted that a CAIMS • SCMAI board member, John Stockie, is the new Deputy Scientific Director of MITACS. He also noted that CAIMS • SCMAI is well represented at the Fields Institute and other institutions, which is helping to increase recognition of the Society.

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- (v) To find sponsors for CAIMS•SCMAI Awards and Prizes. The President indicated that no further progress on this objective has been made.

The President also indicated some ways in which CAIMS•SCMAI members can help achieve these objectives. For (i), he asked members to try to recruit new members in their departments. For (ii) he encouraged members to submit proposals to MITACS, and noted that a new theme in Environment and Resources was being started.

President Shen thanked the Board Members for their service to the Society. He thanked Michael Foreman for his significant donation of time (up to 10 hours/week during the busy period) as Treasurer of the Society. He thanked Sue Ann Campbell for her work on the web page/database and Newsletters, especially making the print Newsletter self financing. He thanked John Stockie for his work promoting the DDA. He thanked Bob Russell for acting as the CAIMS•SCMAI representative to ICIAM and indicated that ICIAM is now starting to listen to our suggestions and view CAIMS•SCMAI as representing Canada.

Outgoing president Shen concluded his report by suggesting a goal for the future: to try to increase the membership to 350-400 in the next two years.

Incoming president Ken Jackson thanked Sam for four years of service to the Society—two as President-Elect and two as President. He indicated that he will try to continue the development of the Society in the directions that Sam has started.

- 6. Treasurer’s Report was presented by Michael Foreman. Highlights are included below. The Society’s financial picture continues to improve.

Income: 21,596.03
 Expenses: 7,592.91
 Profit: 14,003.15

The Treasurer indicated that the Society now has \$25,265.09 in the Bank and Term Deposits of \$55,000. He gave a brief explanation of the TSE 35 GIC which is maturing in July 2003. He also noted that:

- (a) the credit card system is very well used (\$624.82 in fees)
- (b) the Newsletter made a \$400 profit this year
- (c) there were 9 new lifetime members.

The Treasurer reported that Rob Lake (former Treasurer of the Canadian Oceanographic Society) had reviewed the Financial Statement and found it to be “complete and accurate”.

In closing, the Treasurer reviewed the Society’s financial state in the last four years. The Society has gone from \$40,000 in assets to \$80,000 and from a deficit situation to an income situation.

Copies of the detailed Financial Statements may be obtained by contacting the Secretary or Treasurer.

- 7. Announcements:

Results of the 2003 Election:

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For President-Elect there was one candidate: Dr. William Langford. There was one write-in vote for Dr. Christopher Essex. Dr. Langford was declared elected for the period ending at CAIMS • SCMAI-2005.

For Treasurer there was one candidate: Dr. Michael Foreman. Dr. Foreman was declared elected for the period ending at CAIMS • SCMAI-2005.

For Secretary there was one candidate: Dr. Sue Ann Campbell. Dr. Campbell was declared elected for the period ending at CAIMS • SCMAI-2005.

For the member-at-large positions there were four candidates: Dr. Benqui Guo, Dr. Jack Macki, Dr. Robert Russell and Dr. Jianhong Wu. There was one write-in vote for Dr. Christopher Essex. After counting the ballots, Dr. Robert Russell and Dr. Jianhong Wu were each declared elected for three-year terms ending at CAIMS • SCMAI-2006 and Dr. Jack Macki was declared elected for a two-year term ending at CAIMS • SCMAI-2005, to fill the member-at-large position vacated by Dr. William Langford.

Incoming President Ken Jackson thanked retiring Board Members Anthony Peirce, Gordon Swaters and Anna Lawniczak for their contributions to the Society.

Awards:

- John Stockie announced there were two winners of the Doctoral Dissertation Award this year:
 - C. Connell McCluskey
Department of Mathematical Sciences, University of Alberta
Thesis title: *Global stability in epidemiological models*
 - Petter Wiburg
Department of Computer Science, University of Toronto
Thesis title: *Computation of value-at-risk: The fast convolution method, dimension reduction and perturbation theory*

He noted that there were a record number of nominations (8) and thanked the committee members for all their hard work.

- On behalf of Anthony Peirce, Sam Shen announced that the first annual CAIMS • SCMAI Research Prize winner was Jianhong Wu of York University. He thanked the committee for their hard work and encouraged further nominations for next year’s prize.
- Bill Langford announced that the Arthur Beaumont Distinguished Service Award would be presented this year to Anna Lawniczak of the University of Guelph.

Upcoming Meetings:

Paul Muir announced that the 2004 CAIMS • SCMAI Meeting would be held June 13-15 at Dalhousie University. The meeting will be a joint with the CMS Summer meeting and with the Canadian Symposium for Fluid Dynamics (CSFD). The co-directors for the meeting are Pat Keast and Richard Wood.

Serpil Kocabiyik gave an overview of the 2004 CSFD. The focus is on Oceanography and Atmospheric Science. One third of the talks will be from Engineering, one third from Applied Mathematics and one third from Physics.



Sam Shen announced that the 2004 MITACS AGM would also be held in Halifax, June 10-12, immediately preceding the CAIMS•SCMAI meeting.

Sam Shen announced that the 2005 CAIMS•SCMAI Meeting would be held in Winnipeg.

Ken Jackson thanked the organizing committee of the 2003 meeting: Jacques Bélair, Anna Lawniczak, Sam Shen, Anne Bourlioux and Bob Russell.

CAIMS•SCMAI Committee Membership for 2003-2004:

- (a) Doctoral Dissertation Award Committee: John Stockie (UNB, Chair), other members TBA
- (b) Arthur Beaumont Award Committee: Bill Langford (Guelph, Chair), Serpil Kocabiyik (Memorial), Bryant Moodie (Alberta)
- (c) Research Prize Committee: Jianhong Wu (York, Chair), Anthony Pierce (UBC), Don Dawson (Carleton)
- (d) Nominating Committee: Bill Langford(Guelph, Chair), Bob Russell (SFU), Serpil Kocabiyik (Memorial)
- (e) Scientific Program Committee: Ken Jackson (Toronto, Chair), Claudio Albanese (Toronto), Jacques Bélair (Montréal), Pat Keast (Dalhousie)
- (f) ICIAM '07 Program Committee: Bob Russell (SFU) and Sam Shen (Alberta)
- (g) Executive Document Drafting Committee: Anna Lawniczak (Guelph, Chair), Ken Jackson (Toronto), Nicholas Derzko (Toronto)
- (h) Publications Committee: Sue Ann Campbell (Waterloo, Chair), Ken Jackson (Toronto), Michel Delfour (Montréal), Sam Shen (Alberta), Jack Macki (Alberta), Anna Lawniczak (Guelph)
- (i) Fund Raising Committee: Sam Shen (Alberta, Chair), Serpil Kocabiyik (Memorial), Bill Langford (Guelph), Mike Foreman (IOS), Jack Macki (Alberta)
- (j) Membership Committee: TBA
- (k) MITACS Liaison Committee: John Stockie (UNB, Chair), other members TBA
- (l) Human Rights Committee: Ken Jackson (Toronto, Chair) Sue Ann Campbell (Waterloo), Gail Wolkowicz (McMaster)

CAIMS•SCMAI Representatives to Other Organizations for 2003:

- (a) Representatives to ICIAM: Bob Russell (SFU) and Sam Shen (Alberta)
- (b) Representative to the CMS: Sam Shen (Alberta)
- (c) Representative to the Fields Institute: Ken Jackson (Toronto)
- (d) Representative to MITACS: John Stockie (UNB)
- (e) Representative to CRM: Jacques Bélair (Montréal)
- (f) Representative to PIMS: TBA
- (g) Representative to the Canadian Forum on Education in Mathematics: Jacques Bélair (Montréal)

8. Other business:

- On behalf of the Nominating Committee, Bob Russell invited people to send in suggestions for committee members and for future nominations for the Board.

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- Ken Jackson noted that this is a great time for Applied Mathematics, with lots of opportunities in new research areas. Bob Russell indicated that we need to get young people in these new areas (such as Bioinformatics) involved in CAIMS • SCMAI. Peter Chatwin suggested we should get people in Statistics and Stochastic Processes involved.
- There was a short discussion of how CAIMS • SCMAI can increase the visibility of Applied Mathematics to NSERC. Sam Shen indicated that it was important for people to get involved, e.g. serve on the GSC's. Jianhong Wu (a member of GSC327) indicated that we need people to get involved at higher levels if we want to increase the funding allotted to the GSC. Jacques Bélair (a member of Interdisciplinary GSC) noted that there is an opportunity for CAIMS • SCMAI to be "the voice of mathematics" on other committees such as the Interdisciplinary GSC.

9. At 13:11 p.m. the meeting adjourned.

10. Afterword.

The Awards Luncheon was held Tuesday, June 17, 2003 at the Hotel Windsor Banquet Hall. At this time, the Doctoral Dissertation Award, Arthur C. Beaumont Distinguished Service Award and CAIMS • SCMAI Research Prize were presented. In addition, a plaque was presented to the Centre de Recherches Mathématiques in recognition of hosting the 24th annual meeting of the Society. The Canadian co-chair of the conference, Jacques Bélair, accepted the award on behalf of the Centre.

The winners for the Poster Session were announced on Wednesday, June 18, 2003. They are as follows:

First Place (received a copy of Waterloo Maple):

Charles Fortin, McGill University, *A trust region subproblem algorithm for large scale optimization based on extremal ellipsoids*

Two Runners-Up (in no particular order; received the book of their choice from the Springer-Verlag display):

Vincent Lemaire, Université de Montréal, *Modeling the interactions between osteoblast and osteoclast activities in bone remodeling;*

Karl Lawrence, Memorial University of Newfoundland, *Numerical study of streamwise oscillations of a cylinder in a steady current*

Addendum to the Minutes

Listed below are updates to the membership of various committees:

Scientific Program Committee: Ken Jackson (Toronto, Chair), Jacques Bélair (Montréal), Raymond Spiteri (Dalhousie), Bill Langford (Guelph), Claudio Albanese (Toronto) and Abba Gumel (Manitoba)

CAIMS Executive Documents Committee: Anna Lawniczak (Guelph, Chair), Ken Jackson (Toronto), Nicholas Derzko (Toronto)

Human Rights Committee: Gail Wolkowicz (McMaster, Chair), Sue Ann Campbell (Waterloo), Ken Jackson (Toronto)

Representative to PIMS: John Stockie (SFU)

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