



2008

Annual Report to Members

Rapport annuel aux membres

June 6, 2009

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The 2008 reports from the President and the Advancement of Mathematics Committee, the Executive Director and the Treasurer are provided in both official languages. The other reports are in the language provided by the chair.

Les rapports 2008 du président, du Comité pour l'avancement des mathématiques, du directeur administratif et du trésorier vous sont offerts dans les deux langues officielles. Les autres rapports sont livrés dans la langue de rédaction d'origine.

Report of the President and the Advancement of Mathematics Committee (AMC)

Anthony To-Ming Lau (Alberta)

Advancement of Mathematics Committee (AMC)

Chair: T.S. Salisbury (York) to June 30 and Anthony To-Ming Lau (Alberta) from July 1

A. T. Lau (Alberta) President-Elect to June 30

J. Mighton (Fields Institute)

N. Nigam (McGill)

D.A. Pronk (Dalhousie)

D.L. Rodgers, Treasurer

T. S. Salisbury (York) Past President from July 1

R.E. Woodrow (Calgary)

G.P. Wright (CMS) Executive Director

Fundraising Committee

Chair: T.S. Salisbury (York) to June 30 and Anthony To-Ming Lau (Alberta) from July 1

H.E.A. Campbell (Memorial)

A.T. Lau (Alberta) President-Elect to June 30

D.L. Rodgers, Treasurer

T. S. Salisbury (York) from July 1

R. Woodrow (Calgary)

G.P. Wright (CMS) Executive Director

The Fundraising Committee is a sub-committee of the AMC.

Mathematics in 2008

The CMS seeks to advance and support all aspects of mathematics in Canada, in both research and education.

Our research meetings and publications are vital to the flourishing Canadian mathematical community. As the national organization that represents our profession, we speak on behalf of mathematics to industry and government. Our Math Camps and Math Competitions programs support mathematics education across Canada, as do our problem-solving publications. These and related efforts aim to stimulate students mathematically, an activity critical to Canada's increasingly knowledge-based economy. Our Endowment Grants program enables mathematically rooted projects that would not exist otherwise. Our prestigious prizes celebrate excellence in research, education, teaching and service. The community is connected through electronic services and the CMS Notes, which include conference announcements, and employment opportunities. Our success in sustaining a broad range of activities is due to the engagement of our community, and to the generosity of our supporters. The Society is immensely grateful to all our volunteers and sponsors for their commitment to building and strengthening mathematics in Canada. The detailed descriptions of the year's CMS activities, to be found throughout the pages of the annual report, attest to the health of our discipline and to the energy of our members.

In October, 2008 the CMS delegates Alejandro Adem, Roland Speicher, Nicole Tomczak-Jaegermann and Anthony Lau were

invited to Jeju, Korea to attend the 2008 Global KMS International Conference.

In 2009, the CMS Summer Meeting will be held in St. John's Newfoundland, June 6 to 8. There will be a special joint session with the Korean Mathematical Society organized by Alejandro Adem (UBC) and Jong Hae Keum (KIAS) in Algebraic Geometry and Topology. The 2009 Winter Meeting will be hosted by University of Windsor. We look forward to visiting St. John's in June and Windsor in December for the 2009 meetings.

The Canadian mathematical community continues to plan for upcoming major meetings, including the 2009 Canadian Mathematics Education Forum (May 2009), the CMS's second meeting with the Sociedad Matemática Mexicana in Vancouver (August 2009), and the large 2011 International Congress of Applied and Industrial Mathematics. The reports of the Executive Director and the Research Committee contain details about the Second Canada-France Mathematics Congress in Montreal held in June and the CMS Winter meeting in Ottawa in December.

Prizes

In June 2008, during the Second Canada-France Congress, the CMS Excellence in Teaching Award lecture was given by Edward Bierstone (Toronto); the CMS Krieger-Nelson Prize lecture by Izabella Laba (UBC) and the CMS Jeffery-Williams Prize lecture was given by Martin Barlow (UBC). In December 2008, the Coxeter-James Prize lecture was given by Ravi Vakil (Stanford);

President's and AMC Report - *Continued*

the Doctoral Prize lecture by Matthew Greenberg (Calgary), the Adrien Pouliot Award lecture was given by Harley Weston (Regina), the second David Borwein Distinguished Career Award was given to Hermann Brunner (Memorial); the first renamed Graham Wright Award for Distinguished Service was given to Bill Sands (Calgary) and the G. de B. Robinson Award was given to Dmitry Jakobson (McGill), Nikolai Nadirashvili (CNRS Marseille) and Iosif Polterovich (Montréal).

The achievements recognized by the CMS prizes are truly outstanding. But this high standard relies on a continuing flow of excellent nominations. Please give serious consideration to nominating a deserving colleague.

Advancement of Mathematics

The CMS discontinued the use of a professional fund raiser in early 2008, due in part to budgetary reasons. We were pleased that NSERC-Promo Science renewed its support for our MathCamps for three years (2008-2010), and that new funding was received from the Crabtree Foundation, TD Financial and the RBC Foundation. We thank CRM, Fields, PIMS, MITACS, BIRS and AARMS for their continuing support. Many provincial ministries of education continued to support our important educational activities. We would like to thank Sun Life Financial and the Imperial Oil Foundation for their long-term and ongoing support of our educational activities. Sun Life Financial is the Title Sponsor of the "Open", our largest mathematics competition. I was delighted that Nelson Education renewed its support of the CMS Excellence in Teaching Award. We are indeed very grateful to our many individual donors and friends of the CMS in the United States for their contributions.

At the end of 2008, the CMS had 868 members, up from 795 in 2007. Among them, about 160 are retirees and 80 graduate students. However, in some major departments there are many faculty members who are not CMS members. We will begin in early 2009 to focus on a "Membership Campaign". We will have representatives in each department talk to colleagues to encourage them to join CMS. As graduate students are very important for the future of mathematics, we will also try to have student representatives talk to graduate students on membership.

If you are not a member of CMS, please consider joining. If you are a member, please ask a colleague, a student or a friend to join.

Executive

As usual, the Executive Committee met four times in 2008; at the semi-annual meetings of the Society, and again in April and October, at the Fields Institute. It is a great pleasure working with our Vice-Presidents Michael Bennett, Gordon MacDonald, Yvan Saint-Aubin, and Catherine Sulem.

Joseph Khoury informed the Executive Committee and the Board of Directors that, for personal reasons, he would be unable to assume the position of Executive Director effective January 1, 2009, as had been planned. Graham Wright offered to remain as Executive Director, but on a slightly reduced basis (approximately 75%) until June 30, 2009. During this period, Khoury agreed to continue in his role as the Associate Executive Director (on a part-time basis) and provide assistance to Graham. A search for a new director has started again.

Other Issues

The NSERC Liaison committee continues to monitor the process of NSERC grant selection on our behalf. A formal bid for the 2014 ICM to be held in Montreal has now been submitted.

The CMS had to relocate its Executive Office on the campus of the University of Ottawa because of structural problems with the building on King Edward Avenue to a temporary space in Vanier Hall. The University informed the CMS in November, 2008, that we had to vacate the temporary space by December 31, 2008. Graham Wright and Joseph Khoury explored various options and, taking into account the current situation and the recommendations by the Executive Committee, the Board of Directors, at its meeting in December, approved that the CMS Executive Office move to 1785 Alta Vista Drive (Suite 105), in Ottawa. This will give the CMS the opportunity to consider other options in the short- or long-term. The University of Ottawa has indicated that in few years the current space shortage should be resolved and it may then be possible to re-locate back on campus. A letter was sent to the President of the University of Ottawa to arrange a meeting to discuss future plans and possible options for the CMS. The rental cost off campus is considerably more than what the CMS was paying. But, taking into account the savings from not filling one vacant staff position, there should be minimal impact on the proposed 2009 Budget.

Thanks

I would like to thank Tom Salisbury for his outstanding contribution to the Canadian Mathematical Society as President to June 30, 2008, and his generosity in delaying his sabbatical for six months to allow a smooth transition during my learning period.

The Society is also extremely grateful to its many partners, sponsors, supporters, and volunteers — including meeting organizers, editors, committee members, and the champions of our targeted activities. Special thanks go to the very hard working staff at the CMS Executive and Publications Offices, whose excellent work makes our programs possible. We must particularly thank Graham Wright for the support he provided the President through 2008 and for his outstanding service to the Society for 30 years.

Rapport du président et du Comité pour l'avancement des mathématiques (CAM)

Anthony To-Ming Lau (Alberta)

Comité pour l'avancement des mathématiques (CAM)

Président: T.S. Salisbury (York) au 30 juin et Anthony To-Ming Lau (Alberta) du 1 juillet

A.T. Lau (Alberta) président du 1 juillet

J. Mighton (Fields Institute)

N. Nigam (McGill)

D.A. Pronk (Dalhousie)

D.L. Rodgers, trésorier

T. S. Salisbury (York) président-sortant au 30 juin

R.E. Woodrow (Calgary)

G.P. Wright (CMS) directeur administratif

Comité de la collecte de fonds

Président: T.S. Salisbury (York) au 30 juin et Anthony To-Ming Lau (Alberta) du 1 juillet

H.E.A. Campbell (Memorial)

A.T. Lau (Alberta) président-élu au 30 juin

D.L. Rodgers, trésorier

T. S. Salisbury (York) du 1 juillet

R. Woodrow (Calgary)

G.P. Wright (CMS) directeur administratif

Le Comité de la collecte de fonds est un sous-comité du CAM.

Les mathématiques en 2008

La SMC s'attache à promouvoir tous les domaines des mathématiques au Canada, en recherche comme en éducation.

Nos réunions scientifiques et nos publications sont essentielles à l'essor de la communauté mathématique canadienne. En tant qu'organisme national qui représente notre profession, la SMC se fait le porte-parole de la communauté mathématique auprès de l'industrie et des gouvernements. Nos camps et concours mathématiques renforcent l'enseignement des mathématiques dans tout le Canada, tout comme nos revues de résolution de problèmes. Ces activités et autres initiatives connexes visent à stimuler l'intérêt des jeunes pour les mathématiques. C'est là une préoccupation de plus en plus importante pour le Canada dans le contexte de l'économie du savoir. Notre programme de bourses de fonds de dotation permet la réalisation de projets mathématiques qui ne verraient pas le jour autrement. Nos prestigieux prix soulignent en outre l'excellence en recherche, en éducation, en enseignement et en service à la communauté. Nous maintenons par ailleurs les liens entre les membres de la communauté grâce à nos services électroniques et aux Notes de la SMC, où nous diffusons des annonces de congrès et des offres d'emplois. Notre capacité d'offrir une gamme si vaste d'activités est largement attribuable à l'engagement de la communauté et à la générosité de nos partenaires. La Société doit une fière chandelle à tous ses bénévoles et commanditaires pour leur engagement envers l'essor des mathématiques au Canada. La description détaillée des activités de cette année à la SMC, que vous lirez dans le rapport annuel, témoigne de la vitalité de notre discipline et de l'énergie de nos membres.

En octobre 2008, les représentants de la SMC, Alejandro Adem, Roland Speicher, Nicole Tomczak-Jaegermann et Anthony Lau, ont été invités à Jeju, en Corée, au congrès international 2008 de la Société coréenne de mathématiques (2008 Global KMS International Conference).

La Réunion d'été 2009 de la SMC se déroulera à St. John's (Terre-Neuve) du 6 au 8 juin et comprendra une session com-

mune avec la Société coréenne de mathématiques organisée par Alejandro Adem (UBC) et Jong Hae Keum (KIAS) en géométrie et topologie algébriques. L'Université de Windsor sera l'hôte de la Réunion d'hiver 2009. Ce sera avec grand plaisir que nous nous réunirons à St. John's en juin et à Windsor en décembre 2009 pour les prochaines réunion d'hiver.

La communauté mathématique canadienne poursuit sa planification de grands congrès, notamment le Forum canadien sur l'enseignement des mathématiques (mai 2009), le second congrès SMC-Sociedad Matemática Mexicana à Vancouver (août 2009), ainsi que l'imposant Congrès international de mathématiques appliquées et industrielles de 2011. Les rapports du directeur administratif et du Comité de la recherche contiennent des détails au sujet du Deuxième congrès Canada-France de mathématiques tenu à Montréal en juin et de la Réunion d'hiver de la SMC tenue à Ottawa en décembre.

Prix

En juin 2008, au Deuxième congrès Canada-France, Edward Bierstone (Toronto) a prononcé la conférence du Prix d'excellence en enseignement de la SMC; Izabella Laba (UBC), la conférence du prix Krieger-Nelson, et Martin Barlow (UBC), la conférence du prix Jeffery-Williams. En décembre 2008, la conférence Coxeter-James a été prononcée par Ravi Vakil (Stanford) et la conférence du Prix de doctorat, par Matthew Greenberg (Calgary), le prix Adrien-Pouliot a été remis à Harley Weston (Regina) et le second prix David-Borwein de mathématicien émérite pour l'ensemble d'une carrière est allé à Hermann Brunner (Memorial). Le premier prix Graham-Wright pour service méritoire, sous ce nouveau nom, a été décerné à Bill Sands (Calgary), et Dmitry Jakobson (McGill), Nikolai Nadirashvili (CNRS Marseille) et Iosif Polterovich (Montréal) ont reçu le prix G. de B. Robinson.

Les réalisations soulignées par les prix de la SMC sont véritablement hors du commun. Pour maintenir ce niveau élevé, nous avons toutefois besoin d'un riche bassin de nominations. Nous vous incitons à proposer la candidature de collègues méritants.

Rapport du président et du Comité pour l'avancement des mathématiques (CAM)

suite

Avancement des mathématiques

La SMC n'a plus recours aux services d'un professionnel du financement depuis le début de 2008, en partie pour des raisons financières. Nous sommes heureux que le programme PromoScience du CRSNG ait renouvelé son appui à nos camps mathématiques pour trois ans (2008-2010), et d'avoir reçu du financement neuf de la fondation Crabtree, du Groupe financier TD et de la Fondation RBC. Merci au Centre de recherches mathématiques, à l'Institut Fields, à l'Institut PIMS, au Réseau MITACS, à la Station de recherche internationale de Banff et à l'Association pour l'avancement de la recherche mathématique en Atlantique de leur appui continu. Bon nombre de ministères de l'Éducation provinciaux continuent en outre de financer nos importantes activités éducatives. Nous souhaitons également remercier la Financière Sun Life et la Fondation Pétrolière Impériale de leur soutien financier continu et à long terme de nos activités éducatives. Soulignons que la Financière Sun Life est commanditaire en titre de notre principal concours mathématique, le Défi ouvert canadien de mathématiques. J'ai aussi été ravi d'apprendre que Nelson Educational Ltd. avait en outre renouvelé son appui au Prix d'excellence en enseignement de la SMC. Nous sommes également très reconnaissants à nos nombreux donateurs particuliers et aux amis de la SMC aux États-Unis de leurs contributions.

À la fin de 2008, la SMC comptait 868 membres, comparative-ment à 795 en 2007. De ce nombre, 160 sont à la retraite et 80, des étudiants aux cycles supérieurs. Certains grands départements comptent toutefois de nombreux professeurs qui ne sont pas membres de la SMC. Nous lancerons au début 2009 une vaste campagne de recrutement. Nous demanderons à des représentants de chaque département d'inciter leurs collègues à se joindre à la SMC. Comme les étudiants aux cycles supérieurs sont très importants pour l'avenir des mathématiques, nous demanderons à nos représentants d'inviter aussi ces étudiants à devenir membres. Si vous n'êtes pas encore membre de la SMC, songez à vous inscrire! Si vous l'êtes déjà, incitez vos collègues, étudiants ou amis à faire comme vous.

Comité exécutif

Comme d'habitude, le Comité exécutif s'est réuni quatre fois en 2008 : lors des deux Réunions semestrielles de la Société, puis en avril et en octobre, à l'Institut Fields. Ce fut un réel plaisir de travailler avec les vice-présidents Michael Bennett, Gordon MacDonald, Yvan Saint-Aubin et Catherine Sulem.

Joseph Khoury a informé le Comité exécutif et le Conseil d'administration qu'il ne pourrait assumer comme prévu les fonctions de directeur administratif le 1er janvier 2009 pour des raisons personnelles. Graham Wright a offert de rester en poste mais à charge réduite (environ 75 %) jusqu'au 30 juin 2009, et Joseph Khoury a accepté de continuer à titre de directeur administratif

adjoint (à temps partiel) et d'épauler Graham durant cette période. Nous sommes donc à nouveau à la recherche d'un directeur.

Autres dossiers

Le Comité de liaison avec le CRSNG continue de suivre le processus de sélection des subventions du CRSNG pour nous. Dans un autre ordre d'idées, la candidature de Montréal pour accueillir le Congrès international des mathématiciens 2014 a maintenant été déposée.

La SMC a dû déménager son bureau administratif du campus de l'Université d'Ottawa, en raison de problèmes structureux du bâtiment de l'avenue King-Edward, à des bureaux temporaires au pavillon Vanier. En novembre 2008, l'Université a informé la SMC qu'elle devrait quitter ces lieux à la fin de l'année civile. Graham Wright et Joseph Khoury ont étudié diverses options et, compte tenu de la situation actuelle et des recommandations du Comité exécutif, le Conseil d'administration a approuvé le déménagement du bureau administratif au 1785, avenue Alta Vista (bureau 105) à Ottawa, à sa rencontre de décembre. La SMC aura ainsi l'occasion d'étudier d'autres options à court ou à long terme, l'Université d'Ottawa ayant indiqué que son manque d'espace devrait être résolu d'ici quelques années, et qu'il pourrait alors être possible de ramener la SMC sur le campus. Nous avons demandé une rencontre avec le recteur de l'Université d'Ottawa pour discuter de nos projets et des options qui s'offrent à la SMC. Le loyer actuel est beaucoup plus élevé que celui que payait la SMC sur campus. Toutefois, compte tenu du non-remplacement d'un membre du personnel administratif, l'impact sur le budget 2009 devrait être minimal.

Remerciements

J'aimerais remercier Tom Salisbury de sa contribution exceptionnelle à la présidence de la Société mathématique du Canada jusqu'au 30 juin 2008 et de sa générosité à reporter son congé sabbatique de six mois pour permettre une transition en douceur durant ma période d'apprentissage.

La Société est aussi extrêmement reconnaissante envers ses nombreux partenaires, commanditaires et bénévoles, notamment les organisateurs de congrès, rédacteurs, membres de comités et maîtres d'œuvre de nos activités phares. Un merci tout spécial au personnel ultra dévoué et travaillant du bureau administratif et des bureaux des publications, dont l'excellent travail assure la continuité de nos programmes. Nous devons remercier tout particulièrement Graham Wright de son aide précieuse envers le président en 2008, et de sa contribution exceptionnelle envers la Société au cours des 30 dernières années.

Executive Director's Report

Graham P. Wright (Ottawa)

An Unexpected Year

What was going to transpire during 2008 could not have been predicted as the year started.

Since 1979, the CMS Executive Office has been located on the Campus of the University of Ottawa at 577 King Edward Avenue, in a building adjacent to the Department of Mathematics and Statistics. As the scope of the Society's activities grew so did the space requirements for the Executive Office staff and renovations were made to accommodate the resulting expansion. The CMS Executive Office occupied the entire building and although the space had some limitations, the rental costs were low.

Early in 2008, the office used by the Meetings Coordinator had problems with the roof that the University of Ottawa determined were not cost-effective to repair. Temporary measures were taken to enable the office to be used until July. The remaining offices were re-configured to accommodate all of the staff within the space available. This partial move was completed by the end of July.

As has been reported previously, during the demolition of the Meetings Coordinator's office at the beginning of August, serious structural problems were found in other parts of 577 King Edward Avenue. These problems meant that the Executive Office had to be relocated urgently as a matter of safety. With significant help from the Chair and staff of the Department of Mathematics and Statistics and from the Dean and staff of the Faculty of Science, temporary space was secured on the campus of the University of Ottawa. The move, in effect the second in six weeks, took place during the first week of September.

It had been hoped this temporary space would be available until the summer of 2009 but the CMS was informed it would have to vacate the space by the end of 2008. After an exhaustive search, no space could be found to enable the Executive Office to remain on the campus of the University of Ottawa and the best alternative was to rent space from the Canadian Pharmacists Association at 1785, Alta Vista Drive. Although not on the campus, the new location is relatively close to the University of Ottawa. Unfortunately, although very competitive, the rental costs for this commercial space are considerably more than the costs of being associated with the University of Ottawa. The serious space shortage that currently exists at the University of Ottawa should decrease in three years or so and, at that time, it may be possible for the Executive Office to move back on campus. A letter requesting a meeting with Allan Rock, President, University of Ottawa, to discuss future plans and the possibility to relocate on campus was sent in early 2009.

The third move took place at the end of December 2008 and the Executive Office was functioning at the new location by the first week of January 2009. I wish to commend and thank all of the staff at the Executive Office for dealing with a turbulent period in a very professional manner such that disruptions in services were minimized. Indeed, the significant disruptions were transparent to many members and subscribers. I also wish to thank Joseph Khoury, Associate Executive Director, for all of his efforts and support during this difficult period.

The Society's electronic services have expanded considerably in recent years but this was an area where more staff resources were needed to deal with increasing demands. In May 2008, Steve La Rocque joined the CMS Web Services Group in Ottawa. This has resulted in projects being completed that have been pending for a long time. One important project was the re-design of the CMS Website that was launched in June 2008. Work is now underway to re-vamp the journals pages and the electronic delivery of the Society's periodicals.

In August 2008, Susan Latreille left on Maternity Leave and is scheduled to return in September 2009. Solange Hupé was hired on a limited term contract as the Assistant to the Executive Director. In December 2008, Rachel Cunningham resigned from the position of Administrative Assistant. Rachel wished to spend some time in Europe and may locate permanently in Ireland. Taking into account the available space at the Alta Vista Drive location and the significant financial pressures on the Society, the position has not been filled at this time. The duties of the Administrative Assistant are being assumed by other staff positions and the arrangement will be monitored going forward to determine the best strategy for the long-term.

The 2008 CMS Awards Banquet was combined with the University of Waterloo banquet for the winners of its competitions. The combined banquet took place on June 12, 2008 and was a very successful event for the students, parents, and sponsors. The arrangement will be continued for future years and I wish to thank Ian VanderBurgh, Director, Centre for Education in Mathematics and Computing (CEMC), for making this possible.

The 2008 IMO Send-off Reception was hosted by the Fields Institute and took place on June 27. There was very good media coverage for the event and several sponsors participated and made presentations to the team. The sponsors were impressed with the achievements and talents of the students. I wish to thank Barbara Keyfitz and the staff of the Fields Institute for their assistance with this highly successful event.

Executive Director's Report - *Continued*

Thanks to the efforts of all of the organizers, the partners and the host university (Université de Québec à Montréal), the 2008 Canada-France Congress featured a superb program of plenary, prize and public lectures, 33 scientific sessions, and a number of related activities. Close to 800 participants attended the Congress. 475 participants attended the 2008 Winter Meeting, hosted by Carleton University. The 2008 Winter Meeting, with 11 plenary and prize lectures, a public lecture and 23 sessions was one of the best-attended CMS Winter meetings. Further details regarding these meetings can be found in the Research Committee Report.

In March 2008, the CMS lost a most valued colleague and friend – Jim Totten. Jim was the Editor-in-Chief of CRUX with MAYHEM until December 31, 2008 and was helping Václav Linek (Winnipeg) in the transition of editorial responsibilities until his untimely death. The CMS is very grateful to Václav (Vazz) for assuming extra editorial duties. A conference, *Sharing Mathematics: A Tribute to Jim Totten*, hosted by Thompson Rivers University, will be taking place from May 13-15, 2009.

The Society's periodicals continue to appear on schedule thanks to the efforts of all the editors, and the staff of the CMS Publications Office at the University of Manitoba.

Twenty-eight titles have appeared in the CMS Books Series with Springer and further titles will be released in the near future. Two books in the CMS Treatises in Mathematics Series with A.K. Peters have appeared and the third book is in the final stages of preparation. The first book (*Summa Summarum*) received excellent reviews. The first book (*Problems from Murray Klamkin – The Canadian Collection*) in the new Problem Series with the Mathematical Association of America appeared at the end of 2008.

The 8th volume in the ATOM series has been published (*Problems for Mathematics Leagues III*) and the 9th volume (*The CAUT Problems*) will be available in early 2009.

From May to August 2008, David Rodgers, CMS Treasurer, and Gerri Jensen were resident in Ottawa. I much appreciated the assistance David provided with many aspects of the Society's financial and administrative operations during this period. The CMS is also indebted to David and Gerri for their leadership and tireless efforts with the Society's fund raising initiatives.

As detailed in the Treasure's Report for 2008, although there will be a deficit in the Operations Fund, the deficit will be significantly less than projected. The decrease in the deficit arises from a number of factors including: increased donations from members, a very successful 2008 Winter Meeting, increased participation in the Sun Life Financial Canadian Open Mathematics Challenge, additional contract work, and some committee and administrative expenses being lower than estimates.

2008 was supposed to be my last year as the CMS Executive Director. Joseph Khoury was to assume the position of Executive Director effective January 1, 2009 but, for personal reasons, was not able to assume the position. I agreed to remain as CMS Executive Director for the short-term while the position is advertized, a person hired, and training is completed. It is hoped this process will be completed by June 30, 2009. The CMS Board of Directors approved my re-appointment as the Executive Director and Secretary for the period January 1, 2009 to June 30, 2009, and I am grateful that Joseph Khoury will be continuing as Associate Executive Director, on a part-time basis (25%), for the same period.

My decision to continue as the Society's Executive Director and Secretary was greatly influenced by the excellent staff at the Executive Office, the support from the chairs and members of all the committees, the editors of our publications, and the assistance received from the President (Anthony Lau), the Past President (Thomas Salisbury) and the other members of the CMS Executive Committee.

Rapport annuel 2008 du directeur administratif

Graham P. Wright (Ottawa)

Une année toute en rebondissements

Nul n'aurait pu prévoir, en début d'année, les événements qui ont marqué 2008.

Depuis 1979, le bureau administratif de la SMC est hébergé sur le campus de l'Université d'Ottawa au 577, avenue King-Edward, dans un bâtiment adjacent au Département de mathématiques et de statistique. Le besoin d'espace pour accommoder le personnel s'est accru au rythme de la croissance des activités de la Société, si bien qu'il a fallu faire d'importantes rénovations, et que le bureau administratif de la SMC a fini par occuper tout le bâtiment. Malgré quelques contraintes et l'espace restreint, le loyer était peu élevé.

Au début de 2008, on a constaté un problème au niveau du plafond du bureau de la coordonnatrice des Réunions, problème que l'Université d'Ottawa n'a pas jugé rentable de réparer. Il a fallu prendre des mesures temporaires pour que le bureau soit habitable jusqu'en juillet. Une reconfiguration des bureaux restants a permis d'accueillir tout le personnel dans l'intervalle, et ce déménagement partiel s'est terminé à la fin de juillet.

Comme nous en avons déjà parlé, de graves problèmes structureux ont été détectés au début d'août dans d'autres parties du 577 de l'avenue King-Edward durant la démolition du bureau de la coordonnatrice des Réunions. Il a fallu déménager le bureau administratif de toute urgence par mesure de sécurité. Grâce à l'aide du directeur et du personnel du Département de mathématiques et de statistique, ainsi que du doyen et du personnel de la Faculté des sciences, nous avons trouvé des locaux temporaires sur le campus de l'Université d'Ottawa. Ce déménagement, le deuxième en six semaines, a eu lieu la première semaine de septembre.

Nous avons espéré pouvoir rester à cet endroit jusqu'à la fin de l'été 2009, mais l'Université nous a informés qu'il faudrait libérer les locaux à la fin de 2008. Après une recherche exhaustive, nous n'avons pas trouvé de place pour garder le bureau administratif sur le campus de l'Université d'Ottawa. Notre meilleure option a donc été de louer des bureaux à l'Association des pharmaciens du Canada, au 1785, promenade Alta Vista. Même si nous ne sommes pas sur le campus, le nouvel emplacement est assez près de l'Université d'Ottawa. Malheureusement, même si le loyer est très concurrentiel par rapport au marché, il est beaucoup plus élevé que celui que demandait l'Université. La pénurie de locaux que vit en ce moment l'Université d'Ottawa devrait s'atténuer d'ici trois ans à peu près. À ce moment-là, le bureau administratif pourrait se réinstaller sur le campus. Nous avons d'ailleurs écrit au recteur Allan Rock, au début de 2009, pour discuter de nos projets et de la

possibilité de ramener la Société à l'Université d'Ottawa.

Le troisième déménagement s'est donc produit à la fin de décembre 2008, et le bureau administratif était opérationnel dès la première semaine de janvier 2009. Je tiens à remercier le personnel du bureau d'avoir géré cette période de turbulence avec autant de professionnalisme, de sorte que les interruptions de services ont été minimales. En effet, bien des membres et abonnés n'ont rien vu de tous ces chambardements. J'aimerais aussi remercier Joseph Khoury, directeur administratif adjoint, de ses grands efforts et de son soutien durant cette période difficile.

Les Services électroniques de la Société ont connu une croissance fulgurante au cours des dernières années, sans toutefois que les ressources humaines n'augmentent au même rythme. En avril 2008, Steve Laroque s'est donc joint à l'équipe des services web de la SMC à Ottawa. Depuis son arrivée, des projets qui étaient en attente depuis longtemps se sont réalisés, notamment la refonte du site de la SMC, dont la nouvelle version a été lancée en juin 2008. L'équipe travaille en ce moment à la mise à jour des pages de nos revues et à la parution électronique des périodiques de la Société. En août 2008, Susan Latreille est partie en congé de maternité et devrait revenir au travail en septembre 2009. Solange Hupé a été engagée pour un contrat à durée limitée en tant qu'adjointe du directeur administratif. En décembre 2008, Rachel Cunningham a quitté son poste d'adjointe administrative. Elle a quitté le Canada pour l'Europe et pourrait s'installer en Irlande de façon permanente. Compte tenu de l'espace dont nous disposons sur Alta Vista et des contraintes financières qui pèsent sur la Société, nous n'avons pas encore pourvu ce poste. Pour l'instant, les tâches de l'adjointe administrative sont donc distribuées entre les autres membres du personnel, mais nous réévaluerons la situation au fur et à mesure et verrons ce qu'il faut faire à long terme.

Le banquet des prix de la SMC 2008 a été jumelé au banquet où l'Université de Waterloo remettrait ses propres prix. L'événement, qui s'est tenu le 12 juin 2008, a remporté un très vif succès auprès des étudiants, parents et commanditaires. La formule sera sûrement reprise dans les années à venir. Je remercie Ian VanderBurg, directeur du Centre d'éducation en mathématiques et en informatique, d'avoir rendu cet événement possible.

La réception pour souligner le départ de l'équipe de l'OIM 2008 s'est déroulée à l'Institut Fields le 27 juin. L'activité a reçu une excellente couverture médiatique, et plusieurs commanditaires y ont participé et fait des présentations. Ces derniers se sont dits impressionnés des réalisations et du talent des élèves. J'aimerais remercier Barbara Keyfitz et le personnel de l'Institut Fields de leur aide dans l'organisation de cette belle réussite.

Rapport du directeur administratif - suite

Grâce au travail des organisateurs, des partenaires et de l'université hôte (l'Université du Québec à Montréal), le congrès Canada-France 2008 a présenté un superbe programme de conférences plénières, publiques et de lauréats, 33 sessions scientifiques et plusieurs activités connexes. Près de 800 participants y ont pris part. Quelque 475 participants ont assisté à la Réunion d'hiver 2008, tenue à l'Université Carleton. Avec ses 11 conférences plénières et de conférenciers, sa conférence publique et ses 23 sessions au programme, ce fut l'une des Réunions d'hiver les plus populaires de l'histoire de la SMC. Pour de plus amples renseignements sur ces rencontres, on consultera le rapport du Comité de la recherche.

En mars 2008, la SMC a perdu l'un de ses collègues et amis les plus précieux en la personne de Jim Totten. Le mandat de Jim comme rédacteur en chef du CRUX with MAYHEM devait se terminer le 31 décembre 2008; il aidait Václav Linek (Winnipeg) durant le transfert des responsabilités, jusqu'à son départ soudain. La SMC est très reconnaissante envers Václav (Vazz) des tâches éditoriales supplémentaires qu'il a accomplies. L'Université Thompson Rivers sera l'hôte d'une conférence intitulée *Sharing Mathematics: A Tribute to Jim Totten* du 13 au 15 mai 2009.

Les périodiques de la Société continuent de paraître selon l'horaire prévu grâce aux efforts de tous les rédacteurs et du personnel du bureau des publications de la SMC, à l'Université du Manitoba. Vingt-huit titres sont déjà parus dans la collection « Ouvrages de mathématiques de la SMC », en collaboration avec Springer, et d'autres titres paraîtront bientôt. Deux ouvrages ont été publiés dans la collection « Traités mathématiques de la SMC », en collaboration avec A.K. Peters, et le troisième en est aux dernières étapes de préparation. Le premier ouvrage (Summa Summarum) de cette collection a reçu d'excellentes critiques. Le premier numéro de la nouvelle collection « Problem Series with the Mathematical Association of America » (Problems from Murray Klamkin -- The Canadian Collection) est paru à la fin de 2008.

Le 8e volume de la collection ATOM vient de paraître (Problems for Mathematics Leagues III), et le 9e volume (The CAUT Problems) sortira au début de 2009.

De mai à août 2008, David Rodgers, trésorier de la SMC, et Gerri Jensen ont élu domicile à Ottawa. Je suis très reconnaissant à David pour son aide à de nombreux aspects des opérations financières et administratives de la Société durant cette période. La SMC doit aussi une fière chandelle à David et Gerri pour leur direction et leurs efforts soutenus au chapitre des activités-bénéfices de la Société.

Comme vous le lirez en détail dans le rapport du trésorier 2008, nous terminerons l'année avec un budget de fonctionnement déficitaire. Le déficit sera toutefois beaucoup moins élevé que prévu, et ce, en raison de plusieurs facteurs, notamment : une hausse des dons des membres; le vif succès de la Réunion d'hiver 2008; une hausse de la participation au DOCM; des contrats supplémentaires; des dépenses de comités et des dépenses administratives inférieures aux prévisions.

L'année 2008 devait être ma dernière à titre de directeur administratif de la SMC. Joseph Houry devait prendre ma place à compter du 1er janvier 2009, mais il n'a pu le faire pour des raisons personnelles. J'ai donc accepté de demeurer en poste à court terme, durant la période de recrutement, d'embauche et de formation de la personne qui me remplacera. Nous espérons que ces étapes seront franchies d'ici le 30 juin 2009. Le conseil d'administration a approuvé mon retour au poste de directeur administratif et secrétaire pour la période s'échelonnant du 1er janvier 2009 au 30 juin 2009, et je remercie Joseph Houry de conserver le poste de directeur administratif adjoint à temps partiel (25 %) durant cette période.

Ma décision de rester en tant que directeur administratif et secrétaire de la SMC a été grandement influencée par l'excellent personnel du bureau administratif, le soutien des présidents et membres des comités, les rédacteurs de nos publications et l'aide du président (Anthony Lau), du président sortant (Thomas Salisbury) et des autres membres de l'exécutif de la SMC.

Treasurer's Report

David Rodgers

The CMS operating deficit for 2008 is \$24,399, much less than the \$54,586 deficit in the 2008 Budget approved by the Board of Directors, and dramatically reduced from the year-end projection of \$106,106 in the fall. This was made possible by a very successful Winter Meeting (480 delegates), adjustments in expenses from the 2008 Summer Meeting, significantly increased end-of-year donations by CMS members, several unanticipated donations from the public and private sectors, and still lower than projected administrative and committee costs.

While operating deficits are never cause for celebration, a great deal of effort by many people went into managing 2008 CMS resources and risk to yield a reasonable outcome in VERY bad times, often involving moving targets. The whole CMS organization and its membership are to be commended.

The global financial situation going forward seems to assure that the Society will need to continue to find new sources of revenue through individual and other donations, if the CMS is to continue to support the current portfolio of activities. Leaving the Society to the mercy of currency exchange is not prudent.

2009 Budget

The 2009 Operations Fund Budget approved by the Board of Directors in December 2008, projects a deficit of \$61,208 and includes:

- only committed donations and grants so that the impact on the 2009 finances of not raising additional funds is clearly visible;
- rent for the Executive Office at \$47,550 at the new location;
- compensation for the Executive Director position is based on a 75% - 25% split between Graham Wright as Executive Director and Joseph Khoury as Associate Executive Director through June 30, and a new full-time Executive Director from April 1;
- foreign exchange revenue projected at \$18,067 based on a Canadian Dollar at \$0.97 US for CJM and CMB subscription revenue and some from membership and general administration;
- no foreign exchange income projected for other publications and services.

The good news is that 2009 subscription money received is much higher than originally projected due to the lower Canadian dollar relative to the US dollar (about \$0.80 US, where it has hovered since October). The majority of subscription revenue is received

in the months November through April.

CJM and CMB together represent the bulk of CMS subscription revenue, with smaller (but not insignificant) revenues from CRUX with MAYHEM, the various book series, and membership fees. Hence, for 2009, foreign exchange revenue should more than offset the projected deficit.

Electronic-Only Subscriptions and Model for Consortium Pricing

Looking ahead, the Board of Directors approved a 15% discount for electronic-only subscription rates for 2009; \$864 for both the CJM and CMB and \$906 including CRUX with MAYHEM.

The Board also approved a consortium pricing model that can be implemented on a case-by-case, under the principle that subscribers get discounted subscriptions when the CMS gets increased revenues.

Factors that informed the decision were:

- Libraries want electronic-only pricing options to provide their users with better service (e.g., desktop delivery, electronic search capability) while also saving on storage/re-shelving costs.
- The 2009 packaged price for the CJM and CMB (\$1,017) for print and electronic formats is already a discounted price.
- A 15% discount for electronic-only is the low-end of what is likely to trigger the kind of subscriber attention that will naturally cascade to considerations of end-user benefits and library savings.
- Presently, 160 subscribers take both the CJM and CMB so even a 100% conversion to electronic-only in 2009 nets to needing approximately 28 new or renewed lapsed subscriptions to render the outcome revenue neutral. It may be that only 3-6 will actually convert in the first year.
- Presently, 450 libraries appear to take only the CJM. These libraries can be offered electronic-only subscriptions to BOTH CJM and CMB for a small increase of \$112 per subscriber. This option will be publicized widely to libraries and chairs, and form the basis of a campaign to all prospective subscribers.

This decision protects the CMS revenue stream, with a strong short-term story for CJM-only subscribers to convert to electronic-only, thereby increasing overall revenues. It also provides a tool to forestall or reduce cancellations from the group of 160 existing subscribers.

Treasurer's Report - *Continued*

Coupled with consortium pricing, the possibility of getting 28 new or lapsed subscribers does not feel daunting, if pursued systematically and aggressively, particularly with Special Libraries Association (SLA) corporate members.

The purpose of these changes is to offer subscribers choices and flexibility in ways that can bridge the transition from print to electronic delivery that is sustainable long-term. This approach folds naturally into the current pricing model used with agents.

2008 Fundraising Initiatives

A. 2008 Fundraising Campaign

In 2007, the focus of fundraising was CMS Math Camps and prospects that had previously been CMS donors or had established business relationships with the CMS. Overall, about 65 proposals were sent to corporations, foundations, and government, mostly in the last half of the year - too late to impact 2007 finances. Early in 2008, we received a number of positive replies (e.g., NSERC, Crabtree, TD Financial, RBC Foundation, and some provinces), some of which are multi-year commitments.

For 2008, we thought that, based on 2007 experience, better research, a more seasoned request strategy, and with a more timely execution and follow-up, the CMS would be positioned for better results. We

- Developed “CMS Math Advantage”, an umbrella program for Math Camps, Competitions, and CRUX with MAYHEM; and bundled them with a compelling public awareness program (e.g., 2009 Mathematics Education Forum);
- Redesigned the focus and language of the proposals;
- Constructed a fundraising database that made it possible to track actions;
- Researched 150 corporations and foundations and sent out more than 100 proposals by mid-year;
- Meetings took place from May to August with potential donors in Toronto, Ottawa, and Calgary;
- Consulted an experienced Canadian fundraiser about the focus, the materials, and the methodology.

The results were disappointing. At least 6 proposals went to corporate or foundation Boards, which usually signals serious interest, but with no positive outcomes.

B. Feedback and Observations

The following points reflect feedback from corporations that declined to support the CMS:

- The state of the Canadian and global economy clearly impacts CMS fundraising but it is not the whole story.
- There is a strong sense that the CMS ought to be able to raise needed funds from its own (professional) membership, either through donations or by adjusting prices for products and services.
- Mathematics education activities are main-stream and should be funded by governments and not by corporations and foundations.
- Corporations want engagement and direct and timely benefits for their donations, such as research collaboration, near-term pipeline access to employees, or programs only in communities where the company operates.
- Foundations want to seed 1-year, highly innovative, risky start-up programs because they believe mainstream programs such as mathematics are funded by governments.
- Canada does not have any number of very large, wealthy (e.g., Mellon, Carnegie, Ford) foundations.

C. Future CMS Fundraising Initiatives

For almost three years now, and particularly in 2008, the focus has been on corporations and foundations - Canadian, American with Canadian offices, and American who claim to donate in Canada - and there doesn't appear to be much traction. The advice received to date suggests that if there is a path, it is through influential, wealthy individuals in Canada who are interested in mathematics or mathematics education. This approach is slower, but the advice from experts is that building these types of relationships is the better path for the CMS in the longer run.

Considering the feedback and observations, as well as expert counsel, the CMS is best served focusing its resources on approximately 75% individual prospects and 25% on a small number of corporations and foundations where a hand-in-glove fit exists and where we can find insiders to champion CMS requests.

D. Changes for the Advancement of Mathematics Committee

The Advancement of Mathematics Committee sub-committee on fund-raising will be expanded to include individuals, not necessarily CMS members, who are in a position to help with CMS fundraising initiatives.

Rapport du trésorier

David Rodgers

Pour l'exercice 2008, le budget de fonctionnement a affiché un déficit de 24 399 \$, soit beaucoup moins que le déficit prévu au budget adopté par le Conseil d'administration et incroyablement moins que la projection budgétaire de 106 106 \$ présentée l'automne dernier. Nous devons cette bonne nouvelle au vif succès de la Réunion d'hiver (480 participants), à des révisions des dépenses de la Réunion d'été 2008, à une augmentation considérable des dons en fin d'année par les membres de la SMC, à plusieurs dons imprévus des secteurs public et privé, et à des dépenses administratives et des comités inférieures aux prévisions.

Si les déficits de fonctionnement ne sont jamais de bonnes nouvelles, il faut tout de même souligner les efforts immenses déployés par de nombreuses personnes pour gérer les risques et les ressources de la SMC en 2008 afin d'obtenir un résultat raisonnable en des temps TRÈS difficiles et instables. C'est l'ensemble de la SMC et de ses membres qu'il faut féliciter.

La situation financière mondiale actuelle porte à croire que la Société devra continuer à chercher de nouvelles sources de revenus au moyen de dons individuels et autres, si elle souhaite maintenir son éventail actuel d'activités. Il n'est pas prudent de laisser la Société à la merci des taux de change.

Budget 2009

Le budget de fonctionnement 2009 approuvé par le Conseil d'administration en décembre 2008 prévoit un déficit de 61 208 \$ et comprend :

- les dons et les subventions promis seulement, de sorte que l'effet sur les finances de 2009 de ne pas trouver d'autres sources de don est clairement visible;
- le loyer du bureau administratif, soit 47 550 \$ à la nouvelle adresse;
- le salaire du directeur administratif, divisé à 75 % - 25 % entre Graham Wright en tant que directeur administratif et Joseph Khoury en tant que directeur administratif adjoint jusqu'au 30 juin, et celui d'un nouveau directeur administratif à compter du 1er avril;
- des recettes découlant du taux de change s'élevant à 18 067 \$ basées sur un dollar canadien valant 0,97 \$US pour l'abonnement au JCM et au BCM, de l'adhésion et de l'administration générale;
- aucun autre montant découlant du taux de change prévu

pour les autres publications et services.

La bonne nouvelle, c'est que le montant reçu pour les abonnements de 2009 est beaucoup plus élevé que les prévisions, notamment en raison de la faiblesse du dollar canadien par rapport au dollar américain (il tourne autour de 0,80 \$US depuis octobre). Nous recevons la majeure partie des recettes d'abonnement de novembre à avril.

Le JCM et le BCM représentent à eux deux la plus grosse partie des recettes d'abonnement de la SMC. Le CRUX with MAYHEM, les collections d'ouvrages et les droits d'adhésion comptent pour une plus petite partie, mais tout de même importante. Pour l'exercice 2009, les recettes obtenues grâce au taux de change devraient donc éponger assez facilement le déficit projeté.

Abonnement aux versions électroniques et modèle de tarification en consortium

Le Conseil d'administration a approuvé une réduction de 15 % pour l'abonnement aux publications électroniques seulement pour 2009; 864 \$ pour le JCM et le BCM, et 906 \$ avec le CRUX with MAYHEM.

Le Conseil a aussi approuvé un modèle de tarification en consortium qui pourrait être appliqué au cas par cas, en partant du principe que les abonnés obtiennent des réductions lorsque la SMC voit ses recettes augmenter.

Les facteurs qui ont influencé cette décision sont les suivants :

- Les bibliothèques veulent avoir l'option de s'abonner aux publications électroniques seulement pour offrir un meilleur service à leurs utilisateurs (consultation à l'ordinateur, fonctions de recherche électronique, etc.) tout en réalisant des économies d'argent et d'espace.
- Le prix combiné 2009 pour le JCM et le BCM (1 017 \$) en versions imprimées et électroniques est déjà réduit.
- Une réduction de 15 % sur l'abonnement aux publications électroniques seulement est sans doute le minimum nécessaire pour intéresser suffisamment les abonnés et se traduire naturellement en avantages pour les utilisateurs et en économies pour les bibliothèques.
- En ce moment, la SMC compte 160 abonnés au JCM et au BCM, de sorte qu'il faudrait environ 28 nouveaux abonnements ou renouvellements pour ramener à zéro le coût d'une conversion de 100 % aux publications électroniques

Rapport du trésorier - suite

seulement en 2009. Dans les faits, il n'y aura peut-être que de 3 à 6 personnes qui se convertiront la première année.

- En ce moment, 450 bibliothèques ne sont abonnées qu'au JCM. Or, nous pourrions offrir à ces bibliothèques l'abonnement au JCM ET au BCM en version électronique seulement pour une petite hausse de 112 \$ par abonné. Nous diffuserons cette option à grande échelle dans les bibliothèques et auprès des directeurs de départements, et elle sera au cœur d'une campagne de recrutement d'abonnés à nos publications.

Cette décision offre une certaine garantie financière à la SMC, les prévisions étant une conversion massive à court terme des abonnés du JCM uniquement à la version électronique seulement, ce qui se traduira par une augmentation globale des recettes. Cette décision nous aidera aussi à prévenir ou à réduire les annulations du groupe des 160 abonnés actuels.

Compte tenu de la tarification en consortium, le recrutement de 28 nouveaux abonnés ou renouvellements d'abonnements échus ne paraît pas difficile, pourvu que nous nous y appliquions de façon systématique et persistante, en particulier auprès des membres organisationnels de la Special Libraries Association (SLA).

L'objectif de ces changements est d'offrir aux abonnés des choix et une certaine souplesse par des moyens qui assureront une transition viable à long terme entre les publications imprimées et les publications électroniques. Cette démarche s'inscrit naturellement dans le modèle de tarification actuel des agents.

Initiatives de financement 2008

A. Campagne de financement 2008

En 2007, les objectifs de la campagne de financement de la SMC étaient les camps mathématiques et la sollicitation des anciens donateurs de la SMC et d'entreprises ou d'organismes avec lesquels la SMC a tissé des liens au fil des ans. Nous avons envoyé environ 65 propositions à des entreprises, à des fondations et aux gouvernements, la plupart dans la deuxième moitié de l'année, soit trop tard pour obtenir des effets mesurables sur les finances de 2007. Au début de 2008, nous avons reçu des réponses positives (CRSNG, Crabtree, Groupe financier TD, Fondation RBC, quelques gouvernements provinciaux), dont certaines ont abouti à des engagements sur plusieurs années.

En 2008, et d'après l'expérience de 2007, nous avons pensé qu'en faisant des recherches plus poussées, en élaborant une meilleure stratégie de sollicitation et en assurant une mise en œuvre et des suivis plus serrés, la SMC serait bien placée pour obtenir de meilleurs résultats. Nous avons :

- Élaboré un programme cadre appelé CMS Math Advantage pour les camps de mathématiques, les concours et le CRUX with MAYHEM, et l'avons intégré à un programme de sensibilisation du public (par ex. : Forum sur l'enseignement des mathématiques 2009);
- Revu l'orientation et le vocabulaire des propositions;
- Conçu une base de données pour la campagne de financement pour pouvoir assurer les suivis nécessaires;
- Dressé une liste de 150 entreprises et fondations, et envoyé plus de 100 propositions dans la première moitié de l'année;
- Des rencontres ont eu lieu de mai à août avec des donateurs potentiels à Toronto, Ottawa et Calgary;
- Consulté un spécialiste des campagnes de financement canadiennes quant à l'orientation, le matériel et la méthodologie de la campagne.

Les résultats ont été décevants. Au moins six propositions se sont rendues au conseil d'administration d'entreprises ou de fondations, ce qui indique généralement un grand intérêt, mais nous n'avons reçu aucune réponse positive.

B. Commentaires et observations

Les points suivants reflètent les remarques des organisations qui ont décliné la demande pour supporter la SMC.

- La situation de l'économie canadienne et mondiale a de toute évidence des répercussions sur la campagne de financement de la SMC, mais ce n'est pas le seul facteur en cause.
- On semble généralement croire que la SMC devrait pouvoir trouver les fonds nécessaires à même ses membres (professionnels), soit au moyen de dons, soit en ajustant le prix de ses produits et services.
- Les activités d'éducation mathématique sont des activités grand public et devraient être financées par les gouvernements et non par des entreprises ou des fondations.
- Les entreprises veulent des engagements et des avantages directs et rapides en contrepartie de leurs dons : collaboration scientifique, accès direct à des employés potentiels presque prêts à intégrer le marché du travail, programmes réservés à la communauté où est située l'entreprise, etc.

Rapport du trésorier - suite

- Les fondations souhaitent accorder du financement de démarrage à des programmes d'un an, très innovateurs et à haut risque, parce qu'elles croient que les programmes plus grands publics, comme les programmes d'éducation mathématique, sont financés par les gouvernements.

- Il n'y a pas, au Canada de fondation très grosse et très riche (Mellon, Carnegie, Ford, etc.).

C. L'avenir des activités de financement de la SMC

Depuis près de trois ans maintenant, et en particulier en 2008, la SMC a centré ses énergies sur la sollicitation des entreprises et des fondations (canadiennes, américaines ayant des bureaux au Canada, américaines qui disent faire des dons au Canada), ce qui n'a pas donné de très bons résultats. Selon les conseils que nous avons reçus, s'il y a une façon d'obtenir des résultats auprès de ces entreprises et fondations, ce sera avec l'aide de personnalités canadiennes bien nanties qui s'intéressent aux mathématiques

ou à l'éducation mathématique. C'est une formule dont les résultats sont plus lents, mais les spécialistes nous disent que l'établissement de relations de ce type est la meilleure option pour la SMC à long terme.

Compte tenu des commentaires, observations et conseils d'experts que nous avons reçus, la SMC visera à recueillir environ 75 % de ses ressources auprès d'individus, et 25 % auprès d'un petit nombre d'entreprises et de fondations dont les objectifs correspondent aux nôtres et où nous pourrions compter sur des influences internes pour faire avancer les intérêts de la SMC.

D. Changements au Comité pour l'avancement des mathématiques

Le sous-comité du financement du Comité pour l'avancement des mathématiques sera élargi et accueillera des personnes qui, sans être nécessairement membres de la SMC, pourront aider la SMC à mener ses activités de financement.

Balance Sheet as of December 31, 2008

ASSETS	Operations Fund \$	Contingency Fund \$	Endowment Fund Capital \$	Endowment Fund Operations \$	Mathematical Olympiads Fund Capital \$	Mathematical Olympiads Fund Operations \$	Borwein Distinguished Career Fund Capital \$	Borwein Distinguished Career Fund Operations \$	2008 Total \$	2007 Total \$
Current Assets										
Cash	151,987								151,987	83,660
Short-term Investments	73,366								73,366	24,146
Accounts receivable	398,818	23,313							422,131	213,718
Budget advances	4,000								4,000	1,557
Prepaid expenses	60,004								60,004	63,329
Due from (to) specified fund	97,655	(67,654)	(28,466)	12,658	(15,640)	6,284	(4,262)	(575)		
	785,830	(44,341)	(28,466)	12,658	(15,640)	6,284	(4,262)	(575)	711,488	386,410
Investments	455	773,125	360,846		178,605		47,374		1,360,405	1,600,305
Capital assets	35,621								35,621	45,084
	821,906	728,784	332,380	12,658	162,965	6,284	43,112	(575)	2,107,514	2,031,799
Liabilities										
Current liabilities										
Accounts payable and accrued liabilities	338,029			16,000					354,029	251,093
Deferred revenue	448,256	145,108							593,364	328,028
	786,285	145,108		16,000					947,393	579,121
Fund Balances										
Invested in capital assets	35,621								35,621	45,084
Restricted		583,676	332,380	(3,342)	162,965	6,284	43,112	(575)	1,124,500	1,407,594
	35,621	583,676	332,380	(3,342)	162,965	6,284	43,112	(575)	1,160,121	1,452,678
	821,906	728,784	332,380	12,658	162,965	6,284	43,112	(575)	2,107,514	2,031,799

Statement of Revenue and Expenditures Year Ended December 31, 2008

	GENERAL DIVISION		PUBLISHING DIVISION		RESEARCH DIVISION		EDUCATION DIVISION		TOTAL	
	2008 \$	2007 \$	2008 \$	2007 \$	2008 \$	2007 \$	2008 \$	2007 \$	2008 \$	2007 \$
Revenue										
Grants	4,000				171,376	101,922	120,000	67,048	295,376	168,970
Donations	6,688	10,145	1,084	1,018	719	831	124,298	74,383	132,789	86,377
Membership fees	122,206	111,985							122,206	111,985
Registration fees and other sales	1,050				249,759	166,002	112,710	105,876	363,519	271,878
Subscriptions and publications	66	7	702,619	744,795	40	160			702,725	744,962
Services, advertising and sales	79,736	70,484	9,197	17,783	25,740	7,948			114,673	96,215
Sundry (expenditures)	3,179	(511)	3,272	35	11	60			6,462	(416)
	216,925	192,110	716,172	763,631	447,645	276,923	357,008	247,307	1,737,750	1,479,971
Expenditures										
National projects	7,971	2,419		(228)			238,488	237,569	246,459	239,760
Speakers and prizes	330	221	361	142	196,016	129,386	19,703	18,568	216,410	148,317
Production			124,832	133,270	9,829	9,597			134,661	142,867
Promotional material	3,306	3,194	5,785	1,514	4,543	7,363	5,102	4,444	18,736	16,515
Salaries and benefits	184,052	162,726	257,167	234,504	166,817	141,398	93,825	78,230	701,861	616,858
Boards and committees	39,636	27,557	68,397	75,544	180		1,619	4,210	109,832	107,311
Legal and audit	4,924	5,794	4,925	4,023	4,925	3,862	3,743	1,931	18,517	15,610
General administration	33,877	43,629	66,368	59,776	171,914	126,557	13,317	13,626	285,476	243,588
Amortization of capital assets	3,178	3,362	2,435	2,577	7,409	7,557	2,435	2,577	15,457	16,073
Development campaign	5,528	23,530			1,842	7,843	7,370	31,373	14,740	62,746
	282,802	272,432	530,270	511,122	563,475	433,563	385,602	392,528	1,762,149	1,609,645
Excess (deficiency) of revenue over expenditures	(65,877)	(80,322)	185,902	252,509	(115,830)	(156,640)	(28,594)	(145,221)	(24,399)	(129,674)

Statement of Revenue, Expenditures and Changes in Restricted Fund Balances, Year Ended December 31, 2008

	Contingency Fund	Endowment Fund Capital	Endowment Fund Operations	Mathematical Olympiads Fund Operations Capital	Mathematical Olympiads Fund Operations	Borwein Distinguished Career Fund Capital	Borwein Distinguished Career Fund Operations	Total 2008	Total 2007
	\$	\$	\$	\$	\$	\$	\$	\$	\$
Revenue									
Donations		2,775		770		450		3,995	5,445
Dividend, interest and other income	30,113	15,224		7,491		1,973		54,801	58,527
Loss on investments due to changes in market value	(161,454)	(81,623)		(40,165)		(10,578)		(293,820)	(91,598)
	(131,341)	(63,624)		(31,904)		(8,155)		(235,024)	(27,626)
Expenditures									
Projects			16,000					16,000	33,376
Mathematical Olympiad annual transfer									7,648
Service fees	8,243	4,168		2,050		539		15,000	15,000
Invested Funds Committee	71		34		16		4	125	
Speakers and prizes							2,009	2,009	3,597
	8,314	4,168	16,034	2,050	16	539	2,013	33,134	59,621
Contribution (to) / from		(12,825)	12,825	(6,300)	6,300	(1,700)	1,700		
Excess (deficiency) of revenue over expenditures	(139,655)	(80,617)	(3,209)	(40,254)	6,284	(10,394)	(313)	(268,158)	(87,247)
Fund balances, beginning of year	738,267	412,997	(133)	203,219		53,506	(262)	1,407,594	1,443,668
Opening adjustments for change in accounting policy related to financial instruments									181,122
Transfer to Operations Fund	(14,936)							(14,936)	(129,949)
Fund balances, end of year	583,676	332,380	(3,342)	162,965	6,284	43,112	(575)	1,124,500	1,407,594

Budgets - Operations Fund Summary

SUMMARY BY DIVISION	2007 Year-end	Budget 2008	Actuals year end	BUDGET 2009
GENERAL				
Total Revenue	192,110	228,307	216,925	223,983
Total Expenditure	272,432	311,072	282,802	297,196
NET REVENUE/EXPENDITURE	(80,322)	(82,765)	(65,877)	(73,213)
EDUCATION				
Total Revenue	247,307	359,500	357,008	443,350
Total Expenditure	392,528	425,044	385,602	521,781
NET REVENUE/EXPENDITURE	(145,221)	(65,544)	(28,594)	(78,431)
RESEARCH				
Total Revenue	276,923	526,000	447,645	291,075
Total Expenditure	433,563	651,625	563,475	424,259
NET REVENUE/EXPENDITURE	(156,640)	(125,625)	(115,830)	(133,184)
PUBLISHING				
Total Revenue	763,631	747,394	716,172	773,393
Total Expenditure	511,122	528,045	530,270	549,773
NET REVENUE/EXPENDITURE	252,509	219,349	185,902	223,620
OPERATIONS FUND				
Total Revenue	1,479,971	1,861,201	1,737,750	1,731,801
Total Expenditure	1,609,645	1,915,786	1,762,149	1,793,009
NET REVENUE/EXPENDITURE	(129,674)	(54,586)	(24,399)	(61,208)

Budgets - General and Education Divisions

GENERAL SUMMARY	2007 Year-end	Budget 2008	Actuals year end	BUDGET 2009
REVENUE				
Administration	79,475	95,075	94,719	88,385
Members	111,985	131,232	122,206	135,598
Projects	650	2,000	0	0
TOTAL REVENUE	<u>192,110</u>	<u>228,307</u>	<u>216,925</u>	<u>223,983</u>
EXPENDITURE				
Administration	208,833	235,165	213,410	214,129
Members	57,035	61,800	60,170	71,117
Projects	6,563	14,108	9,222	11,950
TOTAL EXPENDITURE	<u>272,430</u>	<u>311,072</u>	<u>282,802</u>	<u>297,196</u>
NET REVENUE/EXPENDITURE	<u>(80,321)</u>	<u>(82,765)</u>	<u>(65,877)</u>	<u>(73,213)</u>

EDUCATION SUMMARY	2007 Year-end	Budget 2008	Actuals year end	BUDGET 2009
REVENUE				
Administration	8,450	13,500	22,826	12,000
Competitions	193,801	211,400	218,009	199,500
Forum	0	0	0	126,100
Math Camps	20,723	95,600	95,050	80,250
Projects	24,334	39,000	21,123	25,500
TOTAL REVENUE	<u>247,307</u>	<u>359,500</u>	<u>357,008</u>	<u>443,350</u>
EXPENDITURE				
Administration	90,406	106,529	95,115	97,278
Competitions	181,947	188,010	184,879	184,327
Forum	0	0	0	126,100
Math Camps	69,413	73,269	57,966	64,977
Projects	50,762	57,236	47,642	49,098
TOTAL EXPENDITURE	<u>392,528</u>	<u>425,044</u>	<u>385,602</u>	<u>521,781</u>
NET REVENUE/EXPENDITURE	<u>(145,221)</u>	<u>(65,544)</u>	<u>(28,594)</u>	<u>(78,431)</u>

Budgets - Research and Publications Divisions

RESEARCH SUMMARY	2007 Year-end	Budget 2008	Actuals year end	BUDGET 2009
REVENUE				
Administration	1,586	1,000	1,575	1,000
Meetings	275,336	525,000	446,070	290,075
Projects	0	0	0	0
TOTAL REVENUE	276,922	526,000	447,645	291,075
EXPENDITURE				
Administration	10,147	7,717	6,754	3,715
Meetings	417,880	638,391	554,090	418,644
Projects	5,538	5,518	2,631	1,900
TOTAL EXPENDITURE	433,565	651,625	563,475	424,259
NET REVENUE/EXPENDITURE	(156,642)	(125,625)	(115,830)	(133,184)

PUBLISHING SUMMARY	2007 Year-end	Budget 2008	Actuals year end	BUDGET 2009
REVENUE				
Administration	4,841	4,575	3,334	5,525
Journal	523,491	507,998	491,183	520,174
Bulletin	170,277	167,160	162,646	174,767
Notes	10,912	14,786	7,110	13,091
CRUX with MAYHEM	39,166	38,275	39,760	43,536
Other Publications	14,945	12,100	12,139	16,300
Projects	0	2,500	0	0
TOTAL REVENUE	763,631	747,394	716,172	773,393
EXPENDITURE				
Administration	41,808	41,370	47,239	44,628
Journal	162,184	185,731	179,397	191,652
Bulletin	105,686	109,036	112,987	115,768
Notes	65,070	69,139	67,160	69,627
CRUX with MAYHEM	87,731	95,434	96,662	96,831
Other Publications	31,593	27,235	29,964	31,168
Projects	17,049	100	(3,139)	100
TOTAL EXPENDITURE	511,121	528,045	530,270	549,773
NET REVENUE/EXPENDITURE	252,511	219,349	185,902	223,620

Education Committee Report

Chair: Joseph Khoury (Ottawa)

L. Baribeau (Laval)
S. Craven (Toronto D.S.B.)
M. Dubiel (SFU) CMESG Representative
S. Fallat (Regina)
A. Liu (Alberta) MAA Gov of Canada
O. Oellermann (Winnipeg)
Y. Saint-Aubin (Montréal)
D. Tingley (UNB-Fredericton)
M. Tingley (UNB-Fredericton)

Sub-Committees:

Education Materials on the web

Chair: J. Khoury (Ottawa)
S. Fallat (Regina)

The role of the Education Committee is to help implement education strategies, consistent with the Society's mission and Strategic Plan. The Committee is also involved in developing new ideas and strategies that expand existing programs or in creating new programs with the goal of impacting more students and educators. This is accomplished by reviewing reports and issues that impact mathematics education in Canada, by carefully selecting the winners for Society's education prizes, and by recommending support for provincial and local educational activities.

In addition to selecting the winner for the Adrien Pouliot Award, choosing judges for the Canada Wide Science Fair, the Halton Peel Data Fair, appointing and assisting the organizers for the education sessions at both semi-annual meetings and overseeing the provincial grants applications, the Committee is now responsible for selecting the recipient of the CMS Excellence in Teaching Award. The Excellence in Teaching Award focuses on the recipient's proven excellence as a teacher at the undergraduate level, as exemplified by unusual effectiveness in the classroom and/or commitment and dedication to teaching and to students.

The Committee met twice in 2008 and the main activities throughout the year can be summarized as follows:

- The 2008 CMS Excellence in Teaching Award was presented to Dr. Edward Bierstone (Toronto) at the Second Canada-France Congress in Montreal. The Chair of the Committee introduced Dr. Bierstone before his talk.
- At the Summer Meeting in Montreal, the Committee selected Dr. Harley Weston (Regina) as the 2008 recipient of the Adrien Pouliot Award. Dr. Weston was presented the Award at the Winter Meeting Banquet in Ottawa.

Adrien-Pouliot Award Selection Committee

Chair: J. Khoury (Ottawa) from July 1
L. Baribeau (Laval) from July 1
M. Dubiel (SFU) from July 1
S. Fallat (Regina) from July 1

Excellence in Teaching Award Selection Committee

Chair: J. Khoury (Ottawa) from July 1
N. Nigam (McGill) from July 1
O. Oellermann (Winnipeg) from July 1
Y. Saint-Aubin (Montréal) from July 1
D. Tingley (UNB-Fredericton) from July 1
R. Woodrow (Calgary) from July 1

- The 2008 Summer Meeting Education Session in Montreal was organized by Michèle Artigue (Paris) and Bernard Hodgson (Laval). The theme was "Technology and the teaching/learning of mathematics" and the session attracted many well-known mathematics educators from Canada and France.
- The 2008 Winter Meeting Education Session in Ottawa was organized by John Poland (Carleton) and Benoit Dionne (Ottawa). The theme was "Transition from High School to University" and the session included a very interesting panel discussion on the topic.
- The Committee secured organizers for the education sessions at both the 2009 semi-annual meetings. The organizer for the meeting in St-John's (June) is Sherry Mantyka from Memorial University of Newfoundland and the organizer for the meeting in Windsor (December) is Dragana Martinovic from the Faculty of Education, University of Windsor.
- The Committee approved a total of \$2,950.00 in support of educational activities in Alberta, Manitoba, Newfoundland, Ontario, Prince Edward Island and Quebec.
- The 2008 Canada-Wide Science Fair took place on the Campus of the University of Ottawa in May. The Chair of the CMS Education Committee judged for the special award sponsored by the CMS (\$1,000). The winner of the CMS award was Ethan Toumishey from St. Stephen High School in New Brunswick for his project "Take a Slide Down the Learning Curve".
- The 2008 Halton Peel Data Fair was held on April 3rd in Burlington for intermediate level students. The CMS prize winners were Hannah Aikman and Amy He from Pineland

Education Committee Report - *Continued*

PS, HDSB for their project “If You Had \$1000, What Charity Would You Choose?” and Tahmid Abdulla, Alexander’s PS, HDSB for his project “TV and Video Games Versus Reading and Studying”.

- The Education Committee Chair also chaired the NSERC/CMS Math in Moscow Scholarships competitions committee. The winners of the Spring Competition were Kyle Hambrook (Lethbridge) and Maxime Fortier Bourque (Laval) and the winner of the Winter Competition was Saman Gharib (UBC).

- The sub-committee for the CMS Excellence in Teaching Award (supported by Nelson Education Ltd) met in Ottawa in December and chose the recipient for the 2009 Award. The winner will receive the Award at the Summer Meeting in St.

John’s.

- The CMS Math Camps provide an excellent opportunity to bring together talented students and to offer them a variety of enriching mathematical activities that demonstrate that the field of mathematics is fun, challenging, and rewarding. The Math Camp Coordinator (Daryl Tingly) is a member of the Education Committee. In 2008, thirteen regional camps and one national camp took place with at least one camp in every province with nearly 350 students participating. For 2009, about 400 students are expected. The committee is delighted by the continued success of the Math Camps Program. Comments from participants and organizers were extremely positive. A survey of participants shows that a vast majority indicated an increased interest in Mathematics, Science and Engineering.

Electronic Services Committee Report

Chair: J. Carette (McMaster)

D. Bar-Natan (Toronto)
I. Chen (SFU)
X. Liu (Waterloo)
G. MacDonald (University of PEI)
D. Pike (Memorial)
S. Watt (Western)

The Electronic Services Committee (ESC) provides policy oversight for the services provided by the Electronic Services Group in Ottawa and the Publications Office in Winnipeg.

For the Electronic Services Group, 2008 was a mixed year. After a number of years of turbulence, staffing at the Ottawa Office seems to have stabilized, and I am pleased to report that the CMS can look forward for this to have a very positive impact in 2009.

In 2008, the improvement in staffing produced visible results: the Society's website got a long-overdue makeover. Not only does the new website look much better, information is much easier to find. Furthermore, the underlying infrastructure has been modernized, so that further upgrades to the website, including addition of relevant content, should be greatly simplified.

Behind the scenes, further work was done: newer, more stable servers are now in place, which should insure reliable services. The office infrastructure stayed operational (save for short periods) through two moves in 2008. That these moves were generally invisible to CMS members reflects a large amount of work in the Office to make it so.

The Web Services Group continues to provide contract services to the Statistical Society of Canada (SSC). It is important that when

the CMS undertakes contract work it should provide benefits to the CMS and not interfere with the mission of CMS electronic services.

In 2009, it is anticipated that more of the work of the Electronic Services Group will be directly visible to the membership. The ESC considers it very important to find an appropriate balance between pure infrastructure work that provides benefits for the effectiveness of the CMS Executive Office staff, and work that is more directly visible and useful to the CMS members. For example, in conjunction with the Publications Office, a revamping of the web site for the Society's periodicals is planned in ways similar to the main web site. This should also allow for improved electronic delivery of our journals.

The Publications Office continues to produce issues of CMS periodicals on a timely basis with few problems, as well as providing editorial and technical assistance to other CMS-supported publications. While the Publications Office also has had issues with staffing and hardware problems, these did not have a visible effect on the publications, for which those responsible should be congratulated.

Endowment Grants Committee Report

Chair: Karl Dilcher (Dalhousie)

J. Hyndman (UNBC)
F.V. Kuhlmann (Saskatchewan)
F. Mendivil (Acadia)
H. Safouhi (Alberta)
C. Sulem (Toronto)

The main task of the Endowment Grants Committee is to adjudicate proposals for projects that request financial support from the CMS Endowment Grants Competition. Projects that are funded must contribute to the goals of the CMS and to the broader good of the Canadian mathematical community.

The committee was allocated \$16,000 for the 2008 competition. Fifteen applications were submitted, of which six were funded. Given the very limited allocation, only two applications could be funded in full, and even then, only for the first year. All others received partial funding, also for one year only. The total allocated amount was awarded. All applicants have been notified of the funding decisions.

The successful applications from the 2008 Endowment Grants Competition were:

- Contributing to the costs of a championship of mathematical games for school children involving thousands of students across Quebec and bringing hundreds to the Laval University campus.
- The Canadian version of an international contest-game for students in Grades 3-12; the CMS Endowment Grant will help with the expansion to more cities.
- Supporting the production of a high-quality French-language mathematical publication and its distribution to schools in Quebec.

- A French-language web-based mathematics competition based in Moncton, with mathematical problems at varying levels and expecting to reach thousands of students.
- Supporting mathematics competitions and a mathematics fair in Northern Ontario, aimed at students between Grade 7 and Grade 12.
- Supporting the 2009 Canadian Mathematics Education Forum which will take place at Simon Fraser University (Downtown Campus) in May.

More details on the successful applications can be found on the CMS website:

www.cms.math.ca/Grants/EGC/

Reports on projects funded in the past can also be found at this site.

Once again, the applications showed a great degree of diversity; they came from seven provinces, showed a good gender and linguistic distribution, and the target groups ranged from Grade 3 (elementary school) to university and teacher education.

The Endowment Grants Committee expects that, in spite of the difficult financial situation, a meaningful competition for Endowment Grants can also be held in 2009.

Finance Committee Report

Chair: Kenneth R. Davidson (Waterloo)

D. Bates
G. Cliff (Alberta)
A.T. Lau (Alberta)
D.L. Rodgers (Michigan)
T. Salisbury (York)
G.P. Wright (Ottawa)

This year was the second year in a row that the Society has passed a deficit budget for the coming year. Several unusual events have made this necessary, and the CMS has had to dig into its diminishing reserve funds to cope.

First, we are still suffering from loss of publication revenue due to the strong Canadian dollar this past year, since the vast majority of journal subscriptions are paid in US dollars. The current depressed state of our dollar is, in fact, good for the Society; and the predicted deficit will be much less if this prevails. To address this matter, the Finance Committee has established a sub-committee to look into the currency hedging.

Secondly, the CMS unexpectedly had to vacate the rented space on the campus of the University of Ottawa. This has required securing space off-campus at a much higher rent, as well as resulting additional workload for the staff.

We also have the transition to a new Executive Director, with the proposed retirement of Graham Wright. This transition has been delayed to 2009 and will incur some additional expenses.

Finally, the market meltdown has resulted in a significant decrease in the CMS Endowed and Contingency Funds.

Clearly the CMS cannot continue to operate with deficit budgets. While a number of the key issues are unlikely to persist, it is nevertheless important for the Society to pursue avenues to secure and increase our revenues. There are really only three sources of funding.

The primary one is publications. One step taken this year was the introduction of an electronic-only price for the Society's journals. It is hoped that this will stem the decline in subscriptions as well as win back some subscribers.

The second main source of funds is membership fees. The Executive Committee has launched a concerted effort to increase the number of members among Canadian university faculty. There has been a significant increase in membership this past year, and a new push this year will hopefully continue the trend. I hope all members will encourage colleagues to join - especially new faculty members.

The third source of possible income is fundraising. The Society has made a concerted effort over the past few years. Although fundraising revenues have increased, they have not yielded the major increases originally planned. Several companies and foundations have been staunch supporters of certain education initiatives for a long time. The attempt to find significant new funds for other areas has not been very successful but this was definitely not due to a lack of effort. Securing new major donors seems very unlikely and it is important for the Society to make every effort regarding the stewardship of existing sponsors. In the future, it appears that the CMS needs to focus on individuals as a means to increasing donations.

All together, the current picture is not rosy, but certainly looks as if there is a light at the end of the tunnel.

International Affairs Committee Report

Chair: Christiane Rousseau (Montréal) to September 22 and Richard Kane (Western) from September 23

M. Bennett (UBC)
 F. Glanfield (Alberta) CMESG Representative from June 1
 G. Ivanoff (Ottawa) SSC Representative
 V. Leblanc (Ottawa) CAIMS representative
 E. Perkins (UBC)

C. Rousseau (Montréal) from September 23
 N. Kamran (McGill)
 R. Kane (Western) to September 22
 F. Gourdeau (Laval) CMESG representative to May 31
 K. Taylor (Dalhousie)

The International Affairs Committee (IAC) is the liaison committee that serves as the voice of Canadian mathematics within the International Mathematical Union (IMU). It is officially a committee of the National Research Council (NRC) and NRC provides most of the funding used to support the participation of Canadian mathematics within the IMU. Countries that are members of the International Mathematical Union are divided into five groups with Canada belonging to Group V, the highest group, consisting of only 10 countries.

Every four years, the IMU organizes an International Congress of Mathematicians (ICM). These Congresses are the major events of the mathematical world. In particular, the Fields Medals are presented at these Congresses. The most important initiative in the Canadian mathematical community during 2008 was the preparation and submission of a Canadian bid to hold ICM 2014 in Montreal. This bid was a sequel to the unsuccessful, but very well received, bid to hold ICM 2010 in Montreal. The ICM will conduct a site visit to Montreal in March of 2009 and the recommendation of the Site Committee regarding the three competing bids (Brazil, Canada, Korea) for ICM 2014 will be announced by May 31, 2009.

The major task of the IAC is to facilitate Canadian participation in IMU committees and activities. During 2008 the IAC completed a comprehensive effort to raise the level of Canadian participation in International Congresses. This initiative was a response to the small number of Canadian speakers at recent ICM's, small in comparison to the perceived stature of Canadian mathematics. Anticipating an official call in 2008 by the Secretary of the IMU for input by National Organizations to the Program Committee of ICM 2010, the IAC organized in 2007 the preparation of a list of Canadian mathematicians who deserve consideration as speakers at ICM 2010. The IAC first nominated 20 small sub-committees (consisting of two or three individuals) in each discipline covered by a session at ICM 2006. These sub-committees identified deserving Canadians in their discipline and arranged for short rationales to be prepared for each candidate. The IAC then nominated a General Committee that evaluated these suggestions and formulated a single list. The final list was submitted to the Secretary of the IMU in May 2008.

In the past few years there has been an increasing level of scrutiny

by NRC regarding ongoing funding commitments. In particular, NRC's International Affiliations program came under review in 2007 and it was decided by NRC that a detailed annual performance review (APR) questionnaire would be sent out to all participants in the program with the goal of determining the strongest candidates for continued support. The APR evaluation is centered around two criteria: the relevance of the international affiliation within the Canadian context and the effectiveness of the liaison committee or supporting organization in "generating beneficial results and outcomes for Canadians". This detailed report on the impact of the International Affairs Committee was completed and submitted to NRC for the first time in February of 2008.

In 2007, the IMU issued a call for proposals which would offer "a sustainable location with associated suitable infrastructure at which the IMU secretarial staff could reside for a (long) period of time, and at which the costs of running the IMU operations is either low or covered by some long term grant/subsidy or the like." In response to this call, the Fields Institute has submitted a bid for hosting the secretarial staff of IMU, on a long-term basis, in Toronto.

The IAC unsuccessfully submitted the name of Jacques Hurtubise as the Canadian entry in a random draw conducted by the IMU to determine a member of the IMU Nominating Committee from Group V countries. Similar draws were conducted to determine a member from Group I and II countries and from Group III and IV countries. This Nominating Committee will determine the initial election slates for IMU positions which will be voted upon at the 2010 IMU General Assembly.

Finally, the current chair notes that the year 2008 marked the end of Christiane Rousseau's four year term as IAC chair. She has been a diligent and effective chair throughout that period, helping to raise the profile of Canadian mathematics at the international level. In particular, the above described initiative to bring Canadian mathematics to the attention of the ICM 2010 Program Committee would not have taken place without her considerable efforts. It might also be mentioned that she chaired the organizing committee for the very well received Canadian ICM 2010 bid and is an active participant in the committee dealing with the 2014 bid.

Invested Funds Committee Report

Chair: David Bates

T.J. Appelt (Structured Capital Inc.)

D.L.E. Bates

T.R. Hurd (McMaster)

D.J. Oakden (OSFI)

D. Promislow (York)

The Invested Funds Committee met at the Fields Institute, Toronto, twice during 2008, once in April and again in October. During the April meeting, investment strategy for the Endowed Funds was reviewed and the current passive investment approach using indexed funds was affirmed. Discussion of the issue of whether or not to consider using currency hedging for the funds concluded that, because this was only an operational issue for the CMS and not an investment return/risk issue, currency risk should be handled outside of the Invested Funds Committee. Suggestions regarding minor changes to the asset mix of the portfolio were deferred to the October meeting for a decision.

The global credit crisis, and the resulting economic downturn, dominated the discussions during the October meeting. A review of the Investment Fund Report as of September 30, 2008 revealed a yearly overall investment return of -10.69%, after the payment of the allocations approved in 2007 and annual administration fees, leaving the total funds invested at \$1,436,888. The decline of the Canadian dollar, relative to the US dollar, served to cushion the effects of the recent market declines. In view of the size and global nature of the decline, it was decided inappropriate to consider any change in asset mix at this time.

Concern regarding the additional market declines that took place early in October prompted a postponement of the allocation vote until the effect of these declines on the invested funds was revealed. A subsequent report by TD Asset Management showed the value of the invested funds as of October 16, 2008 to be \$1,322,737 – an additional annual decline of approximately 6.3% since the end of the September. Concern for the preservation of the Endowed Funds' capital in the current economic conditions prompted the Committee to reduce the funding level for each endowed fund to 3% of the corresponding fund value less administration costs. The following projected allocations for the Endowed Funds for 2009, net of administration fees, were approved: \$5,425 for the CMS Endowment Fund, \$2,645 for the Olympiads Fund, and \$693 for the David Borwein Fund.

At the October meeting, Tim Appelt announced his resignation from the Committee after serving the CMS for over 13 years as an investment consultant on the Finance Committee and subsequently on the Invested Funds Committee. The CMS is extremely grateful for Tim's contributions to the Society and wish him all the best.

Mathematical Competitions Committee Report

Chair: Neal Madras (York)

E. Barbeau (Toronto) to August 31
 Y. Chen (Lakehead)
 S. Craven (Toronto D.S.B.)
 D. Hrimiuc (Alberta)
 K. Karu (UBC) from September 1
 G. MacDonald (University of PEI)
 B. Sands (Calgary) to August 31
 B. Shawyer (Memorial)
 C. Small (Waterloo) from September 1
 D. Tingley (UNB-Fredericton)
 I. VanderBurgh (Waterloo)
 G.P. Wright (Ottawa)

Sub-Committees:

Canadian Open Mathematics Challenge (COMC) Sub-Committee

Chair: I. VanderBurgh (Waterloo)

M. Eden (Preston High School)
 N. Madras (York)

International Mathematical Olympiad (IMO)

B. Sands (Calgary) to August 31, C. Small (Waterloo) from September 1

E. Barbeau (Toronto)
 N. Madras (York)
 D. Pronk (Dalhousie) from September 1
 F. Recio (Toronto)
 B. Sands (Calgary) from September 1
 C. Small (Waterloo) to August 31
 L. Yen (Capilano College) to August 31

Mathematical Olympiads Correspondence Program

E. Barbeau (Toronto) Correspondence Program Coordinator

Canadian Mathematical Olympiad (CMO)

E. Barbeau (Toronto) to August 31, K. Karu (UBC) from September 1

A. Adler (UBC) from September 1
 E. Barbeau (Toronto) from September 1
 J. Bell (SFU) from September 1
 O. Bormashenko (Waterloo) to August 31
 M. Choi (Toronto) to August 31
 E. Doolittle (Regina) to August 31
 J.C. Fisher (Regina) to August 31
 J. Gordon (UBC) from September 1
 K. Karu (UBC) to August 31
 R. Morewood (Bodwell High School) from September 1
 V. Pandelieva to August 31
 F. Recio (Toronto) to August 31
 Z. Reichstein (UBC) from September 1
 N. Sato (Art of Problem Solving)
 J. Solymosi (UBC) from September 1
 J. Tsimmerman (Toronto) to August 31
 E. Wang (Wilfred Laurier) to August 31

The Mathematical Competitions Committee (MCC) oversees the Society's involvement in mathematics contests. The Society sponsors and runs two competitions: the Sun Life Financial Canadian Open Mathematics Challenge (COMC), in conjunction with the Centre for Education in Mathematics and Computing (University of Waterloo), and the Canadian Mathematical Olympiad (CMO). The MCC is responsible for Canada's participation in the Asian Pacific Mathematics Olympiad (APMO) and the International Mathematical Olympiad (IMO), and supervises the Mathematical Olympiad Correspondence Program (Olymon) and the CMS National Math Camp.

Most of the work of the MCC is done by four sub-committees; the COMC, CMO and IMO Committees, and the Correspondence Coordinator. Further information, including press releases, on most of the items in this report can be found through the CMS Competitions web page www.cms.math.ca/Competitions/ and www.cms.math.ca/MediaReleases/.

The MCC and (especially) its sub-committees are very active, with a large number of deadlines throughout the calendar. We would like to thank all members for their enthusiasm, reliability, and hard work in making sure that everything runs smoothly. Special recognition is due to Edward Barbeau (Toronto) and Bill Sands (Calgary), who completed their terms as Chairs of the CMO sub-committee and IMO sub-committee respectively, on August 31, 2008, as well as to Daryl Tingley (New Brunswick - Fredericton), who completed his term as Math Camps Coordinator at the end of 2008. The CMS Executive Office staff, especially the Executive Director Graham Wright, also deserve our gratitude for their dedication.

The Canadian Mathematical Olympiad

96 students wrote the 40th Canadian Mathematical Olympiad on Wednesday, March 26, 2008. Eight students were presented with awards at the annual Awards Banquet at the University of Waterloo on Thursday, June 12, 2008:

FIRST PRIZE and the Sun Life Financial Cup - Chen Sun, A.B. Lucas Secondary School, London, ON; **SECOND PRIZE** - Jonathan Schneider, University of Toronto Schools, Toronto, ON; **THIRD PRIZE** - Yan (Cynthia) Li, Dr. Norman Bethune Collegiate Institute, Toronto, ON. **HONOURABLE MENTIONS** were awarded to: Dimitri Dziabenko, Don Mills Collegiate Institute, Toronto, ON; Neil Gurram, Indus Center for Academic Excellence, Troy, MI, USA; XiaoLin (Danny) Shi, Sir Winston Churchill High School, Calgary, AB; Chengyue (Jarno) Sun, Western Canada High School, Calgary, AB; and Tianyao Zhang, Sir John A. Macdonald Collegiate Institute, Toronto, ON. A full report of the CMO, including the question paper, solutions and an analysis of the grading can be found at www.cms.math.ca/Competitions/CMO/.

The candidates for the CMO are selected mainly on the basis of their performance in the Canadian Open Mathematics Challenge (COMC) written the previous November. We have been aware that this method of screening the candidates is imperfect, and the CMS introduced an intermediate step in 2008: the CMO Qualifying Repêchage (CMOQR). The top 67 students in the 2007 COMC were automatically invited to write the CMO. In January 2008, the next 200 (approximately) were invited to submit solutions to a set of ten repêchage problems posted on-line, within one week. Among these students, 126 submitted solutions, which were

Mathematical Competitions Committee Report - *continued*

graded at the University of Waterloo under the supervision of Ian VanderBurgh. On the basis of the results, 35 additional students were invited to write the CMO. The first CMOQR was viewed as a successful experiment, which will continue for at least one more year before a decision is made as to whether and how to formalize the CMOQR as a permanent part of the CMS' annual competition cycle.

The Society is indebted to many sponsors for the success of the CMO, particularly to its dedicated and long-term major sponsor, Sun Life Financial.

The Asian Pacific Mathematics Olympiad

The 20th Asian Pacific Mathematics Olympiad (APMO) was written on March 10, 2008. A total of 36 Canadian students wrote the exam. The top two students were Chen Sun and Jonathan Schneider, with Nikita Lvov a very close third. The top ten students became Canada's official APMO contestants, and earned one Gold, two Silver, and four Bronze Awards, plus one Honourable Mention. Problem #5 of the contest was proposed by Daniel Brown of Toronto, a member of Canada's 1990 IMO Team. Further details regarding the 2008 APMO may be obtained through www.cms.math.ca/Competitions/APMO/.

International Mathematical Olympiad

The 49th International Mathematical Olympiad (IMO) took place in Madrid, Spain, from July 10 to July 22, 2008. The Team Leader was Dr. Felix Recio of the University of Toronto, the Deputy Leader was Mr. Yufei Zhao of the Massachusetts Institute of Technology, and the Deputy Leader Observer was Ms. Lindsey Shorser of the University of Toronto. The six high school students on the Canadian team were Yan (Cynthia) Li, Dr. Norman Bethune Collegiate Institute, Scarborough, ON; Alexander Remorov, William Lyon Mackenzie Collegiate Institute, North York, ON; Jonathan Schneider, University of Toronto Schools, Toronto, ON; XiaoLin (Danny) Shi, Sir Winston Churchill High School, Calgary, AB; Chen Sun, A.B. Lucas Secondary School, London, ON; and Chengyue (Jarno) Sun, Western Canada High School, Calgary, AB. The Canadian team placed 22nd out of 92 countries and Silver Medals were awarded to Yan (Cynthia) Li and Jonathan Schneider, and Bronze Medals to Alexander Remorov, XiaoLin (Danny) Shi, Chen Sun, and Chengyue (Jarno) Sun.

The Winter Training Seminar was hosted by York University, January 3-8, 2008, and was attended by fourteen high school students from across Canada. The local organizer was Neal Madras, assisted by Alfred Pietrowski and Andrew Toms (all from York University), as well as the staff of the Department of Mathematics and Statistics of Bethune College. The program of the seminar was organized by the Team Leader and Deputy Leader, with the

following assistant trainers: Edward Barbeau (Toronto), Peter Gibson (York), Lindsey Shorser (Toronto), and IMO alumni David Arthur, Peng Shi, and Jacob Tsimerman.

The Summer Training Seminar took place at Wilfrid Laurier University (WLU) from June 27 to July 9. On June 27, a Team Sendoff Reception was held at the Fields Institute in Toronto, where the Team was introduced to the local media, and later that afternoon the team members departed to WLU. Six local students from Ontario also attended the first few days of the Seminar. Thanks are due to Edward Wang for organizing the logistics of the Seminar. The trainers included the team leaders as well as Ed Barbeau, Felix Recio, Christopher Small (Waterloo), Edward Wang (Wilfrid Laurier University), and IMO alumni David Rhee (Waterloo), Adrian Tang (Calgary), and Jacob Tsimerman (Princeton). At the completion of the training, the team flew to Madrid, where they trained with the Swedish team for several days.

Lindsey Shorser's report on the 2008 IMO was published in the December 2008 issue of the CMS Notes. More information regarding the 2008 IMO can be found at www.cms.math.ca/MediaReleases/ and www.cms.math.ca/Competitions/IMO.

The CMS is grateful for the support from the Imperial Oil Foundation for the 2008 Canada IMO team.

Mathematical Olympiad Correspondence Program

The Mathematics Olympiad Correspondence Program (Olymon) is a continuing program in which secondary school students submit solutions to problems for marking. In 2008, there were nine sets of problems, proposed and marked by Edward Barbeau, Rosu Mihai, and Valeria Pandelieva. Generally, each set attracts solutions from about a dozen students. There are now over 500 problems with solutions available at:

www.cms.math.ca/Competitions/MOCP or www.math.utoronto.ca/barbeau.

CMS National Math Camp

The National Math Camp is designed primarily for younger Canadian students with at least two years remaining in high school (Grades 8-10) and with the potential to compete at the Mathematical Olympiad level. Participation in this camp is by invitation.

The 2008 CMS National Math Camp took place at John Abbott College (Quebec) from July 6 to 12. Seventeen students attended the camp (3 female, 14 male). We are grateful to the main organizer, Daniel Gatien (John Abbott), for all of his work in making

Mathematical Competitions Committee Report - *continued*

this camp very successful. (See the Education Committee Report for information about the CMS Math Camps program.)

The Sun Life Financial Canadian Open Mathematics Challenge

November 2008 marked the thirteenth writing of the COMC, and its second under the banner of Sun Life Financial. The COMC is a collaborative activity between the CMS and the Centre for Education in Mathematics and Computing (CEMC). This Sun Life Financial Open Mathematics Contest (the Open) has several purposes. First and foremost, it aims to encourage students in their exploration of mathematics and problem-solving. Second, the Open provides an enrichment activity for teachers to use with their students during the fall term. And third, the Open is used by the CMS to identify students who will write the Canadian Mathematical Olympiad and who will attend, among other events, the Winter Training Seminar and the National Math Camp.

The 2008 Open had a record number of over 8200 participants (with almost 9200 registrants). The papers had an average mark of 43.9 out of 80, thus giving a good chance of success to every student who wrote the paper, while continuing to provide a challenge for the very best problem-solvers in the country. The 2008

Open also saw a marked increase in the number of international competitors, as well as Ontario competitors.

Thanks to the continuation in 2008-09 of the Canadian Mathematical Olympiad Qualification Repêchage, the Open does not have to be as difficult at the “top end”, as there is now an additional mechanism to help select students to write the CMO. This should allow the COMC to maintain a slightly more consistent feel.

The top eight competitors in the 2008 Open were: Frank Ban, Vincent Massey Secondary School, Windsor, ON; Robin Cheng, Pinetree Secondary School, Coquitlam, BC; Neil Gurram, Indus Center for Academic Excellence, Troy, MI; Jonathan Schneider, University of Toronto Schools, Toronto, ON; Danny Shi, Sir Winston Churchill High School, Calgary, AB; Chen Sun, A.B. Lucas Secondary School, London, ON; Jarno Sun, Western Canada High School, Calgary, AB; Jonathan Zhou, Pinetree Secondary School, Coquitlam, BC. Thanks go to the hard-working Problems Committee who continue to ensure that the paper meets its varying goals, as well as the wonderful group of more than 70 graders. Further details are available at: www.cms.math.ca/Competitions/COMC/ or www.cemc.uwaterloo.ca/contests/open.shtml.

Nominating Committee Report

Chair: Edgar Goodaire (MUN) to June 30 and Richard Kane (Western) from July 1

H. Darmon (McGill)
E. Goodaire (MUN) from July 1
M. Lamoureux (Calgary)

A.T. Lau (Alberta)
J. Quastel (Toronto)
T. Salisbury (York)

Nearly 150 individuals contribute to the work of the Canadian Mathematical Society by serving on a CMS standing committee or sub-committee. During 2008, the Nominating Committee recruited 25 new volunteers to serve on these committees. This included both replacements for people whose terms expired at the end of 2008 and members to serve on the newly established Bilingualism Committee. Since 2009 is an election year, the committee also recruited another 20 people to stand as candidates for the CMS Executive Committee and for the Board of Directors. The election will take place in the spring and those chosen will begin their service on July 1, 2009.

There is an enormous amount of energy and talent within the Canadian mathematical community. Nevertheless, it always proves to be a significant challenge for the Nominating Committee to identify individuals willing to contribute their talents and expertise to the Society, especially individuals who have not served the Society before. Given the major turnover in mathematics faculty

across the country in the last few years, it is important to involve such “new people” and, given the changing gender balance in graduate schools and faculties across the country, it is particularly important to recruit more women to fill these positions. As well, the Committee also made a concerted effort to enlist the support of business and other professional people from outside academia because of the special expertise and fresh view points such individuals provide. The Society is grateful for the contributions to the Board of Directors and committees such as Electronic Services, Finance and Invested Funds, of people like Timothy Appelt, David Bates, Thomas Hurd, David Oakden, Klaus Peters, David Rodgers and Walter Stewart.

If you know of anyone within or outside academic circles whom you believe could help the Society, or if you yourself can see an opportunity for service, you are urged to contact the Chair of the Committee (chair-nomc@cms.math.ca).

Publications Committee Report

Chair: Matthias Neufang (Carleton)

M. Bennett (UBC)
E. Goren (McGill)
J. Mashreghi (Laval)

M. Pugh (Toronto)
A. Toms (York)

The chief mandate of the CMS Publications Committee is to oversee and participate in various activities of the Society related to its publications. In particular, the Committee plays a key role in Editorial Board appointments. As reported below, many changes of this nature occurred within the last year.

In January 2008, the Committee welcomed three new Members for a three-year term:

- Javad Mashreghi (Laval);
- Mary Pugh (Toronto);
- Andrew Toms (York).

The current Editors-in-Chief of the *Canadian Journal of Mathematics* are Henry Kim and Robert McCann of the University of Toronto who are beginning the third year of their term. The Editors-in-Chief of the *Canadian Mathematical Bulletin*, Nantel Bergeron and Jianhong Wu of York University, are beginning the fourth year of their term.

Of the 11 Associate Editors on the Editorial Board for the *Canadian Journal of Mathematics* and the *Canadian Mathematical Bulletin* in 2008, Stephen Boyer (UQAM) and Pengfei Guan (McGill) stepped down in December at the end of their term. Stephen Kudla (University of Toronto) agreed to serve for another five-year term. The following individuals were appointed by the CMS Board of Directors for five-year terms as associate editors commencing in January 2009:

- Vladimir Pestov (Ottawa);
- Gordon Slade (UBC);
- Roland Speicher (Queen's);
- Vinayak Vatsal (UBC);
- Jie Xiao (MUN).

Thanks are due to ad hoc Electronic Submissions Sub-committee of the Publications Committee, chaired by David Rodgers, as well as to Robert McCann and Nantel Bergeron. As recommended by the Sub-committee, an online system - Editorial Express - for submitting, processing, refereeing and tracking articles submitted to the CJM or CMB, has been purchased and fully implemented. The system greatly streamlines the processes both for authors and for the editorial process.

Following the established tradition of alternating between the *Canadian Journal of Mathematics* and the *Canadian Mathematical Bulletin*, the 2008 G. de B. Robinson Award was given for the best

article published in the CJM in 2006 or 2007. The recipients of the 2008 G. de B. Robinson Award were Dmitry Jakobson (McGill), Nikolai Nadirashvili (CNRS Marseille) and Iosif Polterovich (Montréal) for their article *Extremal metric for the first eigenvalue on a Klein bottle* which appeared in the Canadian Journal of Mathematics (2006), volume 58, no. 2, pages 381-400.

Bruce Shawyer (Memorial University) has been appointed for another three-year term starting in January 2009, as Editor-in-Chief of the series *A Taste of Mathematics* (ATOM). Graham Wright (CMS) will continue his service as Managing Editor until June 2009.

In 2008, Volume VIII: *Problems for Mathematics Leagues III*, by Peter Booth, John Grant McLoughlin and Bruce Shawyer appeared; and Volume IX: *The CAUT Problems*, by Edward Barbeau will be released in early 2009.

In March 2008, with Jim Totten's sudden passing, the Society lost a long-time friend and tireless worker who, beyond his retirement from Thompson Rivers University in 2007, had continued to serve as Editor-in-Chief of *Crux Mathematicorum with Mathematical Mayhem*. The Society is very grateful to Vaclav Linek of the University of Winnipeg for his work as Editor-in Chief since then. Further CRUX appointments approved by the Publications Committee are:

- J. Chris Fisher (University of Regina) as Problems Editor for a five-year term starting in January 2009;
- Mogens Lemvig Hansen (Yen-Hansen Learning Centre) and Lily Yen (Capilano University) as Skoliad Editors for one-year terms starting in January 2009, after Robert Bilinski (Collège Montmorency) stepped down in December 2008;
- John Grant McLoughlin (University of New Brunswick) as Member-at-Large for a one-year term starting in January 2009;
- Amar Sodhi (Memorial University, Sir Wilfred Grenfell College), as Book Reviews Editor for a five-year term starting in January 2009;
- Nicolae Strungaru (Grant MacEwan College) as Problems Editor for a five-year term starting in January 2009.

Publications Committee Report - *continued*

The Editors-in-Chief of the CMS Books in Mathematics series, published by Springer, are Karl Dilcher and Keith Taylor from Dalhousie University. Both the terms of Karl Dilcher as an Editor-in-Chief and of Richard Kane (Western) as an Associate Editor have been renewed for another five-year period starting in January 2009. The following books were published in the series in 2008 or will appear in 2009:

- *Biorthogonal Systems in Banach Spaces*, by P. Hajek, V. Montesinos Santalucia, J. Vanderwerff, and V. Zizler (2008);
- *The Riemann Hypothesis: A Resource for the Afficionado and Virtuoso Alike*, by P. Borwein, S. Choi, B. Rooney, and A. Weirathmueller (2008);
- *A Concrete Approach to Classical Analysis*, by M. Mureşan (2009).

In July 2008, Henri Darmon (McGill University) was appointed the Editor-in-Chief of the CMS Treatises in Mathematics series, published by A.K. Peters. At the same time, Jonathan Borwein (Dalhousie University) has been appointed Member of the Editorial Board. Their terms will end in December 2012 and December 2013, respectively. In 2008 one book was published: *Factorization: Unique and Otherwise* by S.H. Weintraub.

The terms of the *CMS Notes* Editors-in-Chief Robert Dawson (Saint Mary's) and Srinivasa Swaminathan (Dalhousie) have been renewed for three years starting in January 2009. Edward Barbeau (University of Toronto) will continue his role as Contributing Editor (Education) on the *CMS Notes* Editorial Board to June 2009.

Both the terms of Michael Doob (Manitoba) as Technical Consultant and Craig Platt (Manitoba) as Technical Editor have been extended for another three years. Moreover, Srinivasa Swaminathan's term as Associate Technical Editor was renewed, effective January 2008, and will end in December 2010.

Research Committee Report

Chair: Edward Bierstone (Toronto)

J.F. Jardine (Western)
L. Jeffrey (Toronto)
I. Laba (UBC)
R. Sharifi (McMaster)
R. Vakil (Stanford)

Sub-Committee: Doctoral Prize Selection Committee

Chair: R. Vakil (Stanford)

J. Colliander (Toronto)
M.R. Murty (Queen's)
I. Putnam (Victoria)

The Research Committee met on June 2, 2008 at the CMS Summer Meeting in Montreal, and on November 23, 2008 at the Fields Institute, Toronto. Much of the Committee's work is done by email correspondence.

The Research Committee helps select the scientific organizers for the summer and winter meetings, and participates in the scientific organization of these meetings. The Committee participates, to a lesser extent, in the organization of other special meetings of the CMS.

The Committee selects the winners of the Coxeter-James, Jeffery-Williams and Krieger-Nelson Prizes. These prizes recognize outstanding contributions to research by members of the Canadian mathematical community (the Coxeter-James Prize by younger mathematicians and the Krieger-Nelson by women mathematicians).

At the meeting in November 2008, the Research Committee selected the following prize winners: 2009 Coxeter James - Patrick Brosnan (UBC), 2010 Krieger-Nelson - Lia Bronsard (McMaster), and 2010 Jeffery-Williams - Mikhail Lyubich (SUNY - Stony Brook).

The Research Committee appoints the members of the Doctoral Prize Selection Committee (one of whom must be a member of the Research Committee). The Committee selected Matthew Greenberg (Ph.D. - McGill) as the recipient of the 2008 Doctoral Prize for his thesis supervised by Eyal Goren and Henri Darmon.

A summary of the CMS meetings held in 2008 is as follows:

Second Canada-France Congress 2008 (June 1-5, Université du Québec à Montréal)

The Second Canada-France Congress 2008 (June 1 to 5) was organized in partnership with the following organizations: Canadian Applied and Industrial Mathematics Society (CAIMS), Centre de recherches mathématiques (CRM), Fields Institute, Institut des sciences mathématiques (ISM), Mathematics of Information Technology & Complex Systems (MITACS), Pacific Institute for the Mathematical Sciences (PIMS), Société de Mathématiques Appliquées & Industrielles (SMAI), Société Mathématique de France (SMF), and Université du Québec à Montréal (UQAM). Close to 800 participants attended the 33 scientific sessions and mini-symposia, poster presentations, and workshops.

The Scientific Directors - Octav Cornea (Montréal), Nassif Ghoussoub (UBC), and François Loeser (ENS), together with the entire program committee - Jean-Pierre Bourguignon (IHES), Ivar Ekeland (UBC and PIMS), Étienne Ghys (ENS, Lyon), Arvind Gupta (SFU and MITACS), Barbara Keyfitz (Fields and Houston), François Lalonde (CRM and Montréal), William F. Langford (Guelph), Claude Le Bris (École nationale des Ponts et Chaussées), Etienne Pardoux (Provence), Gilles Pisier (Paris VII), and Christiane Rousseau (Montréal), who was also the Chair of Local Arrangements, planned the superb program.

Yves André (CNRS-ENS, Paris), Olivier Biquard (Strasbourg), Luc Devroye (McGill), Andrew Granville (Montréal), Alice Guionnet (CNRS-ENS, Lyon), Rick Kenyon (Brown), Gérard Laumon (CNRS-Orsay), Eric Sere (Paris-Dauphine), Jean-Pierre Serre (Collège de France), Nicole Tomczak-Jaegermann (Alberta), Nizar Touzi (CREST-Paris), Jianhong Wu (York) presented the plenary lectures; Yvan Saint-Aubin (Montréal) presented the public lecture. The Prize Lectures were given by Alysson M. Costa (Universidade de Sao Paulo, Brazil) - CAIMS Cecil Graham Doctoral Dissertation Award; Alan George (Waterloo) - CAIMS Research Prize; Edward Bierstone (Toronto) - CMS Excellence in Teaching Award; Izabella Laba (UBC) - CMS Krieger-Nelson Prize; and Martin Barlow (UBC) - CMS Jeffery-Williams Prize.

CMS Winter Meeting 2008 (December 6-8, Ottawa, Ontario)

The Scientific Directors, Matthias Neufang and Benjamin Steinberg (Carleton) organized the 23 scientific sessions for this meeting.

The program included plenary lectures given by David Acheson (Oxford), Fan Chung (UC San Diego), Gilles Godefroy (Paris), Sorin Popa (UCLA), Laurent Saloff-Coste (Cornell), Mark Sapir (Vanderbilt), and Keith Taylor (Dalhousie), and the public lecture by Patrick Hayden (McGill). The prizes lectures were given by: Harley Weston (Regina) - Adrien Pouliot Award; Ravi Vakil (Stanford) - Coxeter-James Prize; and Matthew Greenberg (Calgary) - Doctoral Prize.

With 475 participants, this was one of the best-attended CMS Winter meetings.

The 4th Workshop of Connecting Women in Mathematics Across Canada (CWIMAC 2008), organized by the CMS Committee for Women in Mathematics, took place at the University of Ottawa just before the 2008 Winter Meeting.

Student Committee Report

Co-chairs: Jenna Tichon (Winnipeg), Joy Abramson (York) to June 30 and Iva Halacheva (Toronto) from July 1

G. Bazdell (Carleton) from September 1
J. Colling (Western) from July 1
B. Dart (MUN) from February 1
R. Dinath (McMaster) to June 30
M. Fortin-Boisvert (McGill) to June 30
K. Garaschuk (Victoria) from July 1

L. Gauthier (Concordia) to June 30
P. Gladki (Saskatchewan) to June 30
I. Halacheva (Toronto)
N. Johnston (Guelph) from July 1
O. Lafleur (Sherbrooke)
K. Mann (Toronto) to August 31

J. McDonald (Waterloo) to June 30
L-X. Proulx (Montréal) from July 1
N. Richardson (USF) from July 1
G. Robertson (Toronto) to June 30
R. Woodrow (Calgary)
G.P. Wright (Ottawa)

The Student Committee (Studc) has seen a significant overhaul in its membership in 2008 as the majority of the positions were filled by new members. We are excited to have this new group of people with fresh ideas and a lot of enthusiasm continue the committee's previous projects as well as undertake new ones. Even with the undergoing membership changes, the Committee continued its work in reaching out to Canadian undergraduate and graduate students, and encouraging communication among students from across the country.

Change of Membership

The Committee members whose terms ended in 2008 were Joy Abramson, Riyaad Dinath, Melisande Fortin-Boisvert, Laura Gauthier, Kathryn Mann, and Jessica McDonald. Thanks are due to these members for their work and dedication to the Student Committee. The new members of the Student Committee are: Gary Bazdell, Joanne Colling, Bradley Dart, Kseniya Garaschuk, Nathaniel Johnston, Louis-Xavier Proulx and Natasha Richardson. Their biographies are available at <http://www.cms.math.ca/Students/Studc/>.

Studc Website

The website has been updated on a regular basis. New projects have been planned for the new year. One of these is to re-launch the forum to encourage communication between mathematics students all over Canada. Also, new tools for communicating will be added on the website. We encourage readers to visit www.cms.math.ca/Students/. If you have any comments about the website, please e-mail student-webmaster@cms.math.ca.

Student Mailing Lists

The Studc webmaster moderates listservers that distribute announcements to math students across the country. There are separate lists for graduate and undergraduate students. There are currently 161 members on the graduate list and 208 members on the undergraduate list. The Committee is working to increase the frequency of postings to this list. The responsibility of sending relevant content to the list has been transferred to Bradley Dart.

Student Events

At every CMS meeting, Studc organizes successful student events. The task of organizing these events entails finding suitable speakers, getting gifts for the speakers and ordering lunch for

students, creating the discussion points, and moderating the panel; contacting the local math student organizations, booking the social location, and printing flyers for the student activities.

At the 2008 CMS Summer Meeting, a panel discussion took place on the hiring process at universities. The 2008 CMS Winter Meeting featured a panel with four speakers on the topic "What, When, Who and How of Thesis Writing". At both meetings, catered student socials took place at a local pub.

Poster

The current version of the Studc poster was created some time ago. English and French versions are available on the Studc website. However, the poster is outdated and work is underway on creating a new poster.

Canadian Undergraduate Mathematics Conference

The 15th Canadian Undergraduate Mathematics Conference was held at the University of Toronto (July 9th to 12th). This was one of the highlight events in undergraduate mathematics in Canada for the year. The conference brought together over 150 undergraduates from across the country with more than 80 student talks and several keynote lectures. CUMC 2008 received administrative support from Studc, and financial support (\$1000) from the CMS as well as support from various other scientific organizations. CUMC 2009 will be hosted by Carleton University (July 8th to 11th) and promises to be another great event.

Student Newsletter

The Winter 2008 issue was the 11th volume of The Student Mathematical Communicator. The Studc newsletter is a great way to keep students informed about mathematical events and activities, provide book reviews and articles on topics in mathematics as well as some interesting trivia, and at the same time increase awareness about the Student Committee. The 11th Volume was recently mailed to mathematics departments across Canada and included information about Studc and articles on topics like Pure Math vs. Applied Mathematics, Math in Quantum Computing, and the MITACS Industrial Math Summer School. In addition to contributions from Committee members, students are also encouraged to submit articles.

Women in Mathematics Committee Report

Chair: Ping Zhou (St. Francis Xavier)

G. de Vries (Alberta)
 S. Fitzpatrick (UPEI)
 M. Frigon (Montréal)

B. Keyfitz (Fields/Houston)
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The Committee on Women in Mathematics is charged with monitoring the status of women within the Canadian mathematical community, recommending actions that will help to ensure equitable treatment of women in the community, and encouraging the participation of women in mathematics at all levels.

The main activity of the Committee in 2008 was to host the fourth Connecting Women in Mathematics Across Canada (CWIMAC) workshop (held previously in 2003, 2005, and 2006). The purpose of the workshop is to bring together women in mathematics from all different levels (undergraduate and graduate students, postdoctoral fellows, and women in junior and senior faculty positions), with the aim of supporting women in the early stages of their career in the mathematical sciences. The CWIMAC 2008 workshop was held from December 4 to 5, at the University of Ottawa, in conjunction with the CMS Winter Meeting. Thirty-four women participated in the 2008 workshop and financial support was received from the CMS and the Fields Institute. The support provided partial funding for travel and registration.

The opening talk was given by Margaret-Ann Armour (Alberta) and focused on the needs and strategies for increasing the number

of women faculty in mathematics and science departments. Mentorship was facilitated through informal pairings of junior and senior women at both dinner and lunch discussions. The dinner discussion was preceded by a presentation from Larissa Vingilis-Jaremko (Canadian Association for Girls in Science). The second day began with two featured talks by Gerda de Vries (Alberta) and Malgorzata Dubiel (SFU) followed by a Poster Session. The lunch was followed by a presentation by Wendy MacCaull (St. Francis Xavier). The most interactive part of the workshop was a panel discussion which tackled issues brought up by both the panelists and the audience. Six postdoctoral fellows presented their research in two parallel sessions each of which included three 20-minute talks. These presentations showcased a broad range of mathematical topics, ranging from pure to applied mathematics and mathematics education.

During 2008, the Committee continued working with the CMS Executive Committee to establish guidelines for the purpose of increasing gender diversity among speakers (particularly plenary and public speakers) at the CMS semi-annual meetings.

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CMS Executive Office

Canadian Mathematical Society
105-1785 Alta Vista Drive
Ottawa, Ontario K1G 3Y6
Telephone: (613) 733-2662
Fax: (613) 733-8994
office@cms.math.ca
www.cms.math.ca

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