



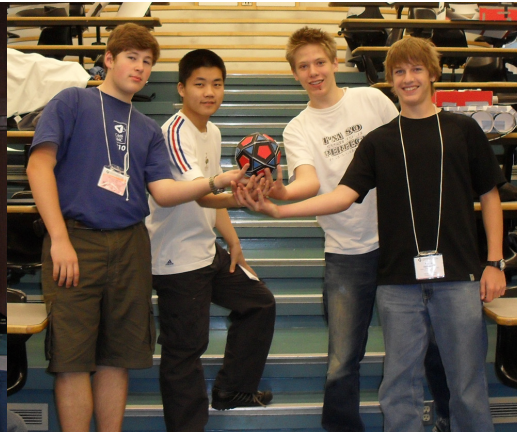
Canadian Mathematical Society

Société mathématique du Canada

Advancement

Discovery

Avancement



Découverte

Learning



Application

Apprentissage

Application

2010 Annual Report

Rapport annuel 2010



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What impact does the CMS have on the Canadian mathematical community? Just do the math:

- + Over 1,000 members, over 150 of which serve on the CMS Board and Committees**
- + Over 450 students attend CMS math camps**
- + Over 1,850 university, college and high school libraries subscribe to CMS publications**
- + Over 12,000 students take part in CMS organized and sponsored competitions**
- + Over 800 attendees participate in the 550 talks at CMS meetings**

Quel est l'impact de la SMC sur la communauté mathématique du Canada? Faites le calcul :

- + Plus de 1 000 membres, plus de 150 qui servent sur le conseil et des comités de la SMC**
- + Plus de 450 étudiants s'inscrivent aux camps de mathématiques de la SMC**
- + Plus de 1 850 bibliothèques d'universités, de collèges et d'écoles secondaires s'abonnent aux revues spécialisées de recherche et aux publications pédagogiques de la SMC**
- + Plus de 12 000 étudiants participent à des concours organisés et commandités par la SMC**
- + Plus de 800 personnes participent aux 550 séances de discussion lors des réunions de la SMC**



CANADIAN MATHEMATICAL SOCIETY
The voice of mathematics since 1945

WHY MATH Mathematical thinking and abilities are critical success factors that fuel both national and personal prosperity. Mathematics allows economies to be understood and business sectors to function. Mathematics helps individuals understand, model, and change the world around them. Mathematics is creative. Mathematics is beautiful. Mathematics is universal. And mathematics is vitally important to the success of our nation, our enterprises, and our lives. To nurture that success, the Canadian Mathematical Society (CMS) promotes the advancement, discovery, learning and application of mathematics in Canada.

HISTORY In 1945 a group of mathematicians met in Montreal as the *Canadian Mathematical Congress*. The group's aim was to try and collectively initiate important mathematical developments in Canada. This meeting led to the development of the Canadian Mathematical Society (CMS). The CMS has since evolved into Canada's voice of mathematics as the national professional society for Canadian mathematics.

ABOUT US The CMS is all about mathematics. It's about mathematics research and discovery. It's about mathematics education and learning. It's about mathematics in daily life and in business. And it's about nurturing a strong and dynamic Canadian mathematics community from coast to coast to coast.

The CMS is a volunteer and member-based, not-for-profit, federally registered charity. The CMS membership encompasses professors, teachers, students, parents, universities, CEGEPs, colleges, schools, corporations, individuals, and other math societies from Canada and around the world. The CMS Board of Directors has representation from across Canada and CMS committees engage every manner of interest in mathematics. CMS sponsors include major corporations as well as federal and provincial governments.



SOCIÉTÉ MATHÉMATIQUE DU CANADA
La voix de mathématiques depuis 1945

POURQUOI LA MATHÉMATIQUE Une pensée mathématique et des capacités en mathématique sont des éléments de réussite essentiels pour assurer la prospérité nationale et personnelle. La mathématique permet aux économies d'être comprises et aux secteurs d'affaires de fonctionner. La mathématique aide les particuliers à comprendre, à modéliser et à changer leur univers. La mathématique est une discipline reposant sur la créativité. La mathématique est la beauté même. La mathématique est universelle. Et la mathématique est d'une importance vitale pour la réussite de notre pays et de nos entreprises et pour notre réussite personnelle. Pour favoriser cette réussite, la Société mathématique du Canada (SMC) s'est donnée pour mandat de promouvoir et de favoriser la découverte et l'apprentissage des mathématiques, et les applications qui en découlent à travers le Canada.

HISTORIQUE En 1945, un groupe de mathématiciens se sont réunis à Montréal sous le nom de *Canadian Mathematical Congress*. Le groupe souhaitait lancer les fondements d'importantes percées en mathématique au Canada. Cette rencontre a entraîné la création de la Société mathématique du Canada (SMC). La SMC est devenue la voix de la mathématique du Canada en sa qualité de société professionnelle nationale pour la mathématique au Canada.

À PROPOS DE NOUS Tout à la SMC gravite autour de la mathématique. Il est question de recherche et de découvertes en mathématique. Il est question d'enseignement et d'apprentissage de la mathématique. Il est question de mathématique au quotidien et dans le milieu des affaires. Et il est question d'appuyer une collectivité mathématique canadienne bien portante et dynamique d'un océan à l'autre.

La SMC est une œuvre charitable d'inscription



WHAT WE DO The CMS promotes and publishes research. The CMS engages math educators to share experiences and best practices. The CMS provides extra-curricular learning experiences for general enrichment and advanced study. The CMS promotes mathematics to advance career aspirations. The CMS

gives voice to the Canadian mathematics community. And the CMS nurtures and celebrates Canadian math excellence on the domestic and international stage.

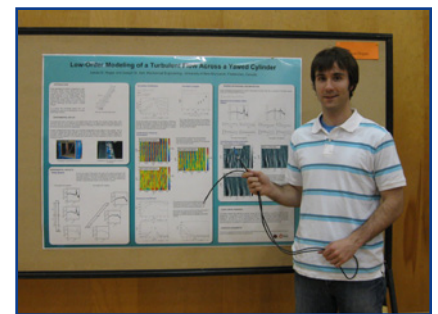
Much of what CMS does targets Canada's youth. CMS develops and holds math competitions, stages national and regional math camps, publishes a high school problem-solving magazine, provides scholarships, and develops web-based resources. The CMS also stages the high school team that represents Canada at the International Mathematical Olympiad.

Every facet of study, careers, and everyday life relies, to one degree or another, on mathematics. The development of math skills fuels our ability to reason, to organize, and to solve problems – all key skills to understanding and addressing the complexities of life. Because math is so important, the CMS promotes and advances 'the doing of math' across Canada.



fédérale, sans but lucratif et composée de membres La SMC est une œuvre charitable d'inscription fédérale, sans but lucratif et composée de membres et de bénévoles. On compte parmi les membres de la SMC des professeurs, des enseignants, des étudiants, des parents, des universités, des CEGEP, des collèges, des écoles, des sociétés, des particuliers et d'autres sociétés mathématiques du Canada et d'ailleurs dans le monde. Le conseil de direction de la SMC compte des membres représentant diverses régions du Canada, et les comités de la SMC contribuent activement à tous les domaines d'intérêt en mathématique. La SMC compte parmi ses commanditaires de grandes sociétés et les gouvernements fédéral et provinciaux.

CE QUE NOUS FAISONS La SMC encourage la recherche et publie les résultats. Elle incite les enseignants en mathématique à partager leur expérience et des



pratiques exemplaires. La SMC offre des occasions d'apprentissage en dehors des salles de classe à ceux qui cherchent à enrichir leurs connaissances et à approfondir leurs études. La société fait la promotion de la mathématique comme moyen à préconiser pour faire avancer sa carrière. La SMC est la voix de la collectivité mathématique du Canada. Enfin, elle appuie et souligne l'excellence en mathématique au Canada, tant au niveau national qu'international.

Une grande partie des activités de la société vise les jeunes du Canada. La SMC crée et organise des concours de mathématique, organise des camps de mathématique nationaux et régionaux, publie une revue destinée aux étudiants du secondaire où l'on retrouve des problèmes à régler, décerne des bourses d'études et offre des ressources sur le Web. La SMC est aussi responsable de l'équipe d'étudiants du secondaire représentant le Canada à l'Olympiade internationale de mathématiques.

PRESIDENT'S REPORT

President - Jacques Hurtubise (McGill)

RAPPORT DU PRÉSIDENT

Président - Jacques Hurtubise (McGill)

**2010 – A Busy Year**

As usual, it was a busy year for the CMS. The year saw a number of developments and not a few positive ones. There was our yearly round of meetings, publications, and educational activities, all of which are growing in size and intensity; there was a

serious look at where we are in the grand scheme of things; and the whole year was spiced by a generous sprinkling of...NSERC.

The CMS had two very good meetings this past year, the first in June in Fredericton, and the second in December in Vancouver. The Fredericton meeting was generously hosted by the University of New Brunswick and its President, Eddy Campbell, a former CMS president. This was the second time Eddy's institution hosted a meeting in two years; we seem to be following him around in his career moves. Bálint Virág (Toronto) and Mikhael Lyubich (Toronto and Stony Brook) gave excellent lectures for their Coxeter-James and Jeffery-Williams prizes, respectively, and Jennifer Hyndman (UNBC) gave a very thought-provoking piece on her approach to teaching as part of her Excellence in Teaching prize lecture. The Vancouver meeting had a truly stunning lineup of plenary lectures; for the prize lectures, Miroslav Lovric (McMaster) gave a beautiful Adrien-Pouliot award lecture, Benjamin Young (MSRI) a superb lecture on his award-winning dissertation, and Lia Bronsard (McMaster) a wide-ranging overview of the work that won her the Krieger-Nelson award. At the awards banquet, I had the pleasure of giving the David Borwein Distinguished Career Award to Nassif Ghoussoub (UBC), who claims he was the only one to follow my speech, and the Graham Wright Award for Distinguished Service to Robert Woodrow (Calgary). Both meetings featured an initiative that I would like to see grow and develop: a poster session for graduate students, in collaboration with AARMS. These sessions were a great success, which suggests that our future meetings should have

2010 – Une année occupée

Comme toujours, ce fut une année occupée pour la SMC; une année aux nombreux développements, dont plusieurs positifs. Nos Réunions annuelles, nos publications et nos activités d'éducation évoluent constamment, tant en volume qu'en intensité. Nous avons examiné l'ensemble de nos activités en fonction de la situation et du contexte actuels. Et pour ajouter du piquant à tout cela, nous avons vécu des hauts et des bas toute l'année grâce... au CRSNG.

La SMC a connu deux Réunions très réussies l'an dernier, la première en juin, à Fredericton, la seconde en décembre, à Vancouver. À Fredericton, la communauté mathématique a été accueillie avec générosité par l'Université du Nouveau-Brunswick et son recteur, Eddy Campbell, un ancien président de la SMC. C'est la deuxième fois en deux ans qu'un établissement d'Eddy accueille une Réunion; nous semblons le suivre au gré de son cheminement professionnel! Bálint Virág (Toronto) et Mikhael Lyubich (Toronto et Stony Brook) ont prononcé d'excellentes conférences, Coxeter-James et Jeffery-Williams, respectivement, et Jennifer Hyndman (UNBC) a livré une prestation très inspirante sur son approche par rapport à l'enseignement dans le cadre de la conférence du prix d'excellence en enseignement. La Réunion de Vancouver comptait elle aussi une brochette impressionnante de conférences plénières. Miroslav Lovric (McMaster), lauréat du prix Adrien-Pouliot, a prononcé une excellente conférence; Benjamin Young (MSRI) a pour sa part donné une superbe conférence sur la dissertation qui lui a valu un prix, et Lia Bronsard (McMaster), a brossé un tableau général du travail qui lui a valu le prix Krieger-Nelson. Au banquet, j'ai remis avec plaisir le prix David-Borwein de mathématicien émérite pour l'ensemble d'une carrière à Nassif Ghoussoub (UBC), qui, selon lui, était le seul à suivre mon discours, ainsi que le prix Graham-Wright pour service méritoire à Robert Woodrow (Calgary). Ces deux Réunions ont présenté une initiative que j'aimerais voir se poursuivre et s'enrichir : une session de présentations par

a significant focus on students.

Our research journals continue to thrive; the main problem is backlog, and indeed, we had to authorize additional pages in CMB to ease the pressure somewhat. Another problem is the changes in exchange rates, which means that the profit margin coming from sales in US dollars has evaporated and we are having to be more careful. But that is scarcely the journals' fault! On the educational side, CRUX hit something of a crisis point; in addition to an operating deficit, there was a feeling that it was time to reset things a bit, and deliver something more in tune to today's student clientele. A new editor is now in place, and he is going to present a refurbishment plan to the board this fall. On the rest of the educational front, things are going very well; more camps, more provinces participating (and paying!), and a record number of students participating in our many initiatives.

A few of us also had, if not the luxury, at least the pleasure, of going through a study of mathematics in Canada. The study included a survey of our departments, which revealed a few interesting surprises: for example, our number of doctoral students has doubled in the past ten years; fifty percent of our current faculty wasn't there ten years ago. The study also confirmed that we are still crucially dependent on our NSERC Discovery Grants. But by and large, the study showed the incredible variety and strength of what is being done out there: what was strong ten years ago is stronger, and what wasn't has in certain areas bloomed to a remarkable degree. There is a strong emergence on the applied side, with, in particular, spectacular growth in mathematical biology. All in all, a good case for...more funding.

Which brings us to NSERC, that organism which oscillates between being the angel whose funding makes it all possible and being the fly in our intellectual ointment. Lately, it is spending rather more time on the latter end of things. Changes in the Discovery Grant program have certainly had an impact on our community. Following an international review, NSERC has implemented a system which has increased

affiches pour les étudiants aux cycles supérieurs, en collaboration avec l'AARMA. Ces sessions ont connu beaucoup de succès, ce qui me porte à croire que nos prochaines Réunions devraient consacrer une place de choix aux étudiants.

Nos revues scientifiques continuent de connaître du succès. Le principal problème, c'est l'arriéré d'articles. Dernièrement, nous avons dû autoriser l'ajout de pages supplémentaires au BCM pour réduire un peu la pression. La variation du taux de change n'est pas sans causer des ennuis non plus : la marge de profit relative aux ventes en dollars US a fondu, ce qui nous force à prendre des précautions. Évidemment, les revues comme telles n'ont rien à voir avec cela! Du côté des publications éducatives, le CRUX est arrivé à un point critique : outre un déficit d'exploitation, on sentait qu'il était temps de revoir les activités du magazine et d'offrir un produit plus alléchant pour la clientèle étudiante d'aujourd'hui. Le nouveau rédacteur en poste présentera au conseil un plan de relance cet automne. Quant à nos autres activités éducatives, les choses vont pour le mieux. Nous avons plus de camps pour les jeunes, plus de provinces y participent (et paient!) et un nombre record d'étudiants prennent part à nos nombreuses activités.

Quelques-uns d'entre nous avons eu sinon le luxe, du moins le plaisir, de participer à un examen des mathématiques au Canada. L'étude comportait un sondage des départements de mathématiques, qui a révélé quelques surprises intéressantes : par exemple, le nombre de doctorants a doublé depuis dix ans et la moitié du corps professoral a été renouvelé durant cette période. L'étude a aussi confirmé que notre dépendance envers les Subventions à la découverte du CRSNG était toujours aussi grande. Mais surtout, elle a fait ressortir l'incroyable diversité et la solidité de nos accomplissements : ce qui était solidement établi il y a dix ans l'est encore plus maintenant, et ce qui ne l'était pas a, dans certains cas, évolué de façon remarquable. On constate une forte émergence du côté des mathématiques appliquées avec, en particulier, une croissance spectaculaire en biologie mathématique. Dans l'ensemble, voilà de très bonnes nouvelles pour demander plus de financement.



Jacques Hurtubise with Nancy Reid, Chair of the NSERC Long Range Plan Steering Committee.

the variability of the grants, as well as enforcing the training of students as a condition for grants. This system has had some unfortunate effects, in that it is hard to pursue a career if someone keeps shutting the funds on and off; it has also cut off a lot of people in the smaller universities. Indeed, an unspoken but fairly clear aim of NSERC has been to reduce success rates at the same time. This is of great concern to our members and the mathematical community at large, and the CMS continues in its coordination efforts with NSERC, and indeed has intensified them, with both meetings last year having several NSERC related events. The NSERC representatives certainly leave the meetings with a clear understanding of our concerns.

Another major event of the last year was the establishment of the NSERC Long Range Plan Steering Committee, an initiative prompted mainly by NSERC's need to determine what to do with the Institutes, which they had lodged in a program they had then decided to abolish. The Committee, which covers mathematics and statistics, was set up with a large participation of the Societies. It is charged with presenting a plan to NSERC for the disbursement of funds and is due to present its report next fall. It already has in hand the Study of Canadian Mathematics; the CMS will also be making its own recommendations. We shall see.

Ce qui nous amène au CRSNG, l'organisme qui passe du statut d'ange gardien, dont le soutien financier nous permet de réaliser nos projets, à celui d'ombre à notre tableau intellectuel. Dernièrement, il semble que le CRSNG joue davantage ce second rôle. Les changements apportés au programme de Subventions à la découverte ont eu un impact certain sur notre communauté. À la suite d'un examen international, le CRSNG a mis en place un système qui a augmenté la « variabilité » des subventions et ajouté la formation des étudiants comme condition à l'obtention de subventions. Ce système a eu des répercussions malheureuses, en ce sens qu'il est difficile de poursuivre une carrière avec un soutien financier intermittent. Il a également privé de soutien de nombreuses personnes qui travaillent dans les petites universités. En effet, l'un des objectifs cachés, mais tout de même assez évident, du CRSNG, était de réduire le taux de succès des demandes de financement. Voilà qui est très inquiétant pour nos membres et pour l'ensemble de la communauté mathématique. La SMC poursuit, voire, intensifie ses efforts de coordination avec le CRSNG, notamment en intégrant à ses Réunions, comme l'an dernier, à deux reprises, plusieurs activités liées au CRSNG. Nous savons qu'en repartant de nos Réunions, les représentants de cet organisme avaient très bien compris nos préoccupations.

La dernière année aura aussi été marquée par la création du Comité de direction du plan à long terme du CRSNG, principalement à la demande du CRSNG, qui voulait savoir quoi faire avec les instituts, intégrés à un programme voué par la suite à l'abolition. Le Comité, qui couvre à la fois les sciences mathématiques et la statistique, compte une forte participation des Sociétés. Il est chargé de présenter un plan au CRSNG concernant l'affectation des fonds et doit déposer son rapport l'automne prochain. Il a déjà en main une étude sur les mathématiques au Canada, et la SMC fera aussi ses propres recommandations. Nous verrons bien ce qu'il en ressortira.

Dans l'ensemble, la Société se porte bien. Nous avons recouvré la santé financière : tout n'est pas

The Society, on the whole, is doing well. We have worked our way back to a state of financial health which, if not rosy, is at least not in the red. Membership continues to be a worry, and will require work. Our staff remains devoted to our mission, and does much to make it all happen. I would particularly like to salute the role of Johan Rudnick, who has settled in with great ability into continuing the work of his predecessor. He has adapted remarkably well to the mathematician's way, all the time questioning gently at the times when this is warranted. I would also like to thank our able and ever vigilant treasurer David Rodgers, as well as the other current members of the executive, Cathy Baker (Atlantic), Pengfei Guan (Quebec), Kumar Murty (Ontario) and Michael Lamoureux (West), who have served the Society with ability and distinction, and who are now (already!) coming to the end of their mandate. Time flies.

rose, mais au moins nous ne sommes pas « dans le rouge ». Le nombre d'adhésions continue de nous inquiéter et nécessitera des efforts soutenus. Notre personnel demeure tout dévoué à notre mission et déploie beaucoup d'énergie à l'atteinte de nos objectifs. J'aimerais souligner en particulier le rôle de Johan Rudnick, qui poursuit avec beaucoup de doigté le travail entrepris par son prédécesseur. Il s'est remarquablement bien adapté à la façon de faire des mathématiciens, posant des questions au besoin avec toute la délicatesse nécessaire. J'aimerais aussi remercier notre trésorier, David Rodgers, pour sa compétence et sa vigilance constantes, ainsi que les autres membres de l'exécutif actuel, soit Cathy Baker (Atlantique), Pengfei Guan (Québec), Kumar Murty (Ontario) et Michael Lamoureux (Ouest), qui ont représenté la Société avec compétence et distinction, et qui arrivent (déjà!) à la fin de leur mandat. Que le temps file!

EXECUTIVE DIRECTOR'S REPORT

Executive Director - Johan Rudnick

RAPPORT DU DIRECTEUR EXÉCUTIF

Directeur Exécutif - Johan Rudnick



Helping The Community Do Their Math

In 2010, the CMS recast how it manages what it does for mathematics under the rubric of advancement, discovery, learning and application. Because the CMS office and staff are involved, to one degree or another, in every

aspect of CMS activity, the change in perspective is having an impact on every aspect of CMS operations.

To nurture the advancement of mathematics, the office supports the CMS membership as well as the CMS Board of Directors, the Executive Committee, and various other committees and sub-committees, from 'secretariat' support, to staging business and AGM meetings, to development of recommendations and policies. The office also produces the CMS newsletter, *CMS Notes*, and manages the corporate and operational affairs of the CMS. The office also administers the David Borwein and the Graham

Aider la communauté à faire ses mathématiques

En 2010, la SMC a repensé son principe de gestion des activités qu'elle organise pour les mathématiques sous la rubrique du perfectionnement, de la découverte, de l'apprentissage et de l'application. Parce que le bureau et le personnel de la SMC contribuent, à divers degrés, à tous les volets des activités de la SMC, le changement de perspective se répercute sur tous les volets des opérations de l'organisation.

Pour favoriser l'avancement des mathématiques, le bureau appuie les membres et le Conseil d'administration de la SMC, son comité exécutif et divers autres comités et sous-comités, de l'appui de « secrétariat » à l'organisation de réunions d'affaires et d'AGA, à la formulation de recommandations et de politiques. Le bureau produit également le bulletin de nouvelles de la SMC, les *Notes de la SMC*, et gère les affaires générales et opérationnelles de la société. Il administre également les prix David Borwein et Graham Wright et le programme des Bourses du fonds de dotation de la SMC. Sur la scène internationale, le

Wright awards, and the endowment grants program. On the international front, the office supports Canada's representation at the IMU and administers all the reciprocal agreements that CMS has with other national math societies.

To support the discovery of mathematics, the office manages the staging of the research component of the semi-annual national meetings and, along with the Winnipeg office, the production of the two CMS journals, CJM and CMB; the CMS Executive Director, assisted by the Manager, Membership and Publications, is also the Managing Director of the journals. The office also administers the G. de B. Robinson, the Coxeter-James, the Jeffery-Williams, the Krieger-Nelson, and the Doctoral award and prize programs.

To advance the learning of mathematics, the office manages the staging of the education component of the semi-annual national meetings and the production of CRUX with Mayhem. The office also administers the Adrien Pouliot and the Excellence in Teaching award programs. Furthermore, the office supports the staging of the three national math competitions, the COMC, the Repêchage, and the CMO, and subsequently supports the training and staging of the Canadian IMO student team. The office also helps to administer the Math in Moscow scholarship program as well as the national math camps program across Canada.

To help support the application of mathematics, the office endeavours to reach out and offer support to advance the interests other math organizations like the SSC and CanaDAM. The office also continues to maintain passive programs to highlight diverse math and math-based careers. At the same time, the office works to enrich existing programs with applied mathematics modules, for example, the development of actuarial and statistical modules for the math camps.

In 2011, the office continued to focus on how the CMS can better and more efficiently serve the CMS membership and the Canadian mathematics community. Operationally, a number of initiatives

bureau appuie la représentation du Canada à l'UMI et administre l'ensemble des ententes réciproques que la SMC a conclues avec d'autres sociétés de mathématiques au pays.

Pour appuyer la découverte des mathématiques, le bureau gère l'organisation du volet de recherche des réunions nationales semi-annuelles et, avec le bureau de Winnipeg, les travaux de préparation des deux revues de la SMC, soit le JCM et le BCM; le directeur exécutif de la SMC, avec l'appui du directeur, Adhésions et publications, est également le directeur principal des revues. Le bureau administre aussi les programmes de prix G. de B. Robinson, Coxeter-James, Jeffery-Williams et Krieger-Nelson et le programme des bourses de doctorat.

Pour faire progresser l'apprentissage des mathématiques, le bureau gère les travaux d'organisation du volet éducatif des réunions nationales semi-annuelles et de la production de CRUX avec Mayhem. Il gère également les programmes de prix Adrien Pouliot et de l'Excellence en enseignement. De plus, le bureau appuie l'organisation des trois concours de mathématiques nationaux, soit le DOCM, le Repêchage et l'OMC, et ensuite aussi la formation et l'organisation de l'équipe d'étudiants canadiens pour l'OMI. Le bureau aide à gérer le programme de bourses Mathématiques à Moscou et le programme des camps de mathématiques nationaux qui sont offerts à travers le Canada.

Pour appuyer l'application des mathématiques, le bureau s'affaire à offrir son soutien à l'avancement des intérêts d'autres organisations de mathématiques telles que la SSC et CanaDAM. Le bureau maintient toujours des programmes passifs visant à souligner diverses carrières en mathématiques et dans des disciplines fondées sur les mathématiques. Le bureau s'affaire en parallèle à enrichir les programmes existants à l'aide de modules de mathématiques appliquées, par exemple, l'élaboration de modules actuariels et statistiques pour les camps de mathématiques.

En 2011, le bureau a continué de mettre l'accent sur la

were instituted in 2010 that sought to improve efficiency and service, reduce costs, engage members, and better reflect CMS activities and Canadian mathematics. For example:

- All award, prize, grant, and scholarship programs as well as Board, Executive, and Finance Committee materials are now on an electronic platform, which has eliminated the need to shuffle paper, provided a single central depository, and allowed for easier sharing of documents.
- Full implementation of a Digital Object Identifier (DOI) regimen for CMS scholarly journal articles to provide better tracking and retrieval of articles for authors and researchers.



- Working with the publication office in Winnipeg, the CMB was expanded by 20% that resulted in more research papers being published and better value for subscribers and quicker publication for authors.
- Implementation of an electronic abstract submission process for talks given at the CMS semi-annual meetings that resulted in lower editing and production costs while improving service to researchers.
- Relocation of the Ottawa office from cramped Class A to larger Class C space that, despite obtaining more space, resulted in a significant reduction of annual accommodation costs.
- Working with AARMS and the CMS student committee, piloted a new student poster component at the CMS semi-annual meetings that resulted in more student participation.

façon dont la SMC peut mieux servir ses membres et la communauté des mathématiques canadienne. Sur le plan opérationnel, la SMC a mis en œuvre en 2010 un certain nombre de projets qui visaient à améliorer l'efficacité et le service, à réduire les coûts, à engager les membres et à mieux refléter les activités de la SMC et les mathématiques au Canada. Par exemple :

- Tous les programmes de prix, de subventions et de bourses d'études et tout le matériel du Conseil et des comités exécutifs et des finances se trouvent maintenant sur une plate-forme électronique, ce qui a éliminé les papiers à manier, a créé un seul et unique répertoire central et a permis de partager plus facilement les documents.
- Mise en œuvre à part entière d'une formule Digital Object Identifier (DOI) pour les articles de revues spécialisées de la SMC afin de mieux faire le suivi et récupérer les articles pour les auteurs et les chercheurs.
- Grâce au travail avec le bureau de publication à Winnipeg, le nombre de membres abonnés au BCM a augmenté de 20 %, ce qui a permis de publier davantage de documents de recherche et d'offrir une plus grande valeur aux abonnés, tout en écourtant le délai de publication pour les auteurs.
- Mise en œuvre d'un processus de présentation d'extraits électroniques pour les conférences données au cours des réunions semi-annuelles de la SMC, système qui a eu pour effet de réduire les coûts d'édition et de production, tout en améliorant le service aux chercheurs.
- Relocalisation du bureau d'Ottawa, soit d'une aire trop restreinte de catégorie A à une installation de catégorie C bien plus grande. Même si on a loué de plus grands locaux, on a réussi à réduire énormément les frais d'hébergement annuels.
- De concert avec l'AARMS et le comité étudiant de la SMC, on a créé un projet pilote axé sur des affiches étudiantes au cours des réunions semi-annuelles de la SMC; ce volet a entraîné une plus grande participation étudiante.

- Staging an NSERC panel and a CMS Town Hall meeting that provided the community with direct opportunities to question and engage NSERC representatives and the CMS executive.
- Profiling all Canadian mathematics societies, institutes, and organizations on the CMS web site provided a more complete representation of the nature and scope of the community.
- Development of a new, inexpensive, university-sponsored student membership category for introduction in 2011 that should increase student membership in and engagement with the CMS.



One of the biggest challenges for the CMS office in 2010 has been the actual transition from the 2009 general administration, research, education, and publication model of the CMS to the 2010 advancement, discovery, learning, and application model. As a transition year, all CMS financial transactions have been administered under both models to clearly demonstrate how revenue and expenditures were being recast. Furthermore, under the new model it has become easier to identify and assign the real costs of CMS activities within various programs. While this work has advanced virtually un-noticed, it has a real and direct affect on the CMS. For example, we can now identify the costs of CMS business meetings as distinct from the research sessions or the education sessions at CMS semi-annual meetings. With better and more accurate information, both the executive and the Board will be better informed and can make better decisions for the good of CMS members and the community at large. Suffice to say, emerging from 2010 with a real and positive operating surplus, the first in many many years, was the proverbial icing on the cake!

- Organisation d'un panel du CRSNG et d'une séance de discussion ouverte de la SMC qui ont permis à la communauté de poser directement des questions aux représentants du CRSNG et à l'exécutif de la SMC et d'obtenir leur participation.
- Afficher le profil de tous les instituts, sociétés et organisations de mathématiques du Canada sur le site Web de la SMC a permis de mieux faire connaître la communauté, ses caractéristiques et la portée de ses activités.
- Création d'une nouvelle catégorie de membres étudiants aux frais d'adhésion peu élevés et commanditée par le milieu universitaire; cette nouvelle catégorie sera offerte en 2011 et devrait permettre d'accroître le nombre de membres étudiants et la participation étudiante à la SMC.

Un des principaux défis pour le bureau de la SMC en 2010 a été le passage du modèle général de 2009 axé sur l'administration, la recherche, l'éducation et la publication de la SMC au modèle de 2010 axé sur l'avancement, la découverte, l'apprentissage et l'application. Puisqu'il s'agissait d'une année de transition, toutes les transactions financières de la SMC ont été administrées en vertu des deux modèles afin de démontrer clairement en quoi les revenus et les dépenses étaient remaniés. De plus, selon le nouveau modèle, il est plus simple d'identifier et d'assigner les coûts réels des activités de la SMC au sein des divers programmes. Bien que ce travail ait progressé sans qu'on ne s'en aperçoive pratiquement, il a un effet réel et direct sur la SMC. Par exemple, nous pouvons maintenant faire la distinction entre les coûts des réunions d'affaires de la SMC et les coûts des séances de recherche ou des séances d'éducation au cours des réunions semi-annuelles de la SMC. En ayant à leur disposition de l'information de meilleure qualité et plus précise, l'exécutif et le Conseil seront mieux renseignés et pourront prendre des décisions plus éclairées pour le bien des membres de la SMC et de la communauté en général. Terminer l'année 2010 en affichant un véritable surplus budgétaire, le premier en de nombreuses années, n'était, pour ainsi dire, que la cerise sur le gâteau!

There were also a number of other areas that were quietly worked on 'behind the scene.' In 2010 the CMS office itself was restructured to better focus on how CMS activities are administered and managed and included the introduction of a communication function that has resulted in an emerging and much improved presentation of the CMS. Some of the CMS web pages have been updated and 'refreshed.' The office has also been assisting various CMS groups as they review and consider what CMS currently does and what it should be doing in the future with respect to CMS activities in such areas as: membership, meetings, publications, competitions, and student engagement.

To a large extent, 2010 launched a cycle of quiet renewal and development that will take some time to be completed. The benefits of the changes being made and the results of all the work initiated by the office and others should more clearly begin to emerge in 2011. What should begin to take shape is a more relevant and effective CMS, one that is sustainable, and one that can better help advance the interests of everyone in the Canadian mathematics community.

On s'est aussi penché « en arrière-plan » sur quelques autres dossiers. En 2010, le bureau de la SMC lui-même a été restructuré afin de mieux assurer l'administration et la gestion des activités de la SMC. On a adopté cette année-là une nouvelle fonction de communication qui a garanti une présentation nouvelle et grandement améliorée de la SMC. Quelques-unes des pages Web de la SMC ont été mises à jour et « actualisées ». Le bureau aide divers groupes de la SMC à examiner ce que fait actuellement l'organisation et ce qu'elle devrait faire à l'avenir par rapport aux activités dans des domaines tels que : adhésions, réunions, publications, concours et engagement des étudiants.

En gros, 2010 était une année de renouvellement et de développement « tranquilles », virage qui prendra quelque temps encore. Les bienfaits des changements apportés et les résultats de tout le travail entamé par le bureau et d'autres intervenants devraient commencer à mieux se faire sentir en 2011. On devrait assister à une SMC plus pertinente et efficace, durable et qui peut mieux faire progresser les intérêts de tous les acteurs du milieu des mathématiques au Canada.

TREASURER'S REPORT

Treasurer - David Rodgers

RAPPORT DU TRÉSORIER

Trésorier - David Rodgers



CMS operating results for 2010 show a **net revenue surplus** of **\$35,233**, (\$60,735 less \$25,502 in foreign exchange). It is the first year since 2005 where the CMS has posted a revenue surplus, net of foreign exchange; and in only one other year, 2009, was there a revenue surplus (\$33,150) --- but coupled to an \$80,555 loss net of foreign exchange.

All 2010 CMS revenues and expenses were recorded under revised categories¹: *advancement, discovery, learning and application*; to better align the CMS mission statement with ongoing planning and

¹ The original budget categories were *general administration, research, education, and publication*.

En 2010, les résultats des activités de la SMC affichent un **surplus net** de **35 233 \$**. C'est la première année depuis 2005 que la SMC affiche un surplus après application des pertes liées au taux de change. La SMC n'a connu qu'une seule autre année de surplus durant cette période, soit en 2009, se chiffrant à 33 150 \$. Les pertes nettes liées au taux de change se chiffraient toutefois à 80 555 \$ cette année-là.

Les revenus et dépenses de la SMC en 2010 ont été inscrits dans les nouvelles catégories de postes budgétaires¹ - *avancement, découverte, apprentissage et application* - pour que les activités budgétaires et de planification courantes de la SMC soient plus conformes à son énoncé de mission. Les rôles et

¹ Les postes budgétaires d'origine étaient *administration générale, recherche, éducation et publication*.

budgeting activities. The roles and responsibilities of CMS staff were reviewed and revised. The CMS Executive Office moved *twice* in 2010; and finally to better, larger, less expensive space. All of this occurred without significantly impacting services to members or the greater Canadian mathematical community.

Work for the 2010 Audit is complete and the auditors are satisfied that the CMS continues to properly account for its revenues and expenses. The CMS Executive Office continues to believe that the auditors provide good value and service for the fee paid.

The weak US dollar continues to exert pressure on operating results going forward, with no realistic prospects for relief over the next 18-24 months.

The CMS continues to experience significant, ongoing financial challenges in 2011, due to further erosion of membership and publishing revenues. Registration for the 2011 Summer Meeting in Edmonton is down from previous years at this point in time; the number of sessions, the key indicator to financial health of CMS meetings is also down. Given the continuing economic climate, achieving the same results in 2011 as 2010 are not very likely.

The CMS is not alone in facing its financial and professional challenges. Virtually every professional association and scholarly society is in a similar position. Their members are demanding focused, electronically connected opportunities that expand their professional network, engage research collaborators, and facilitate their learning.

The Executive Director, Finance Committee, and Executive Committee are acutely aware of these trends and that the CMS must continue to diversify and expand its revenue base in ways that offer programs and services of interest to the Canadian mathematical community.

responsabilités du personnel de la SMC ont été analysés et réorganisés. Le bureau administratif de la SMC a déménagé *deux fois* en 2010, pour s'installer finalement dans des bureaux plus appropriés, plus spacieux et moins chers. Tout cela s'est produit sans nuire aux services aux membres ni à la communauté mathématique canadienne.

La vérification pour l'exercice 2010 est terminée, et les vérificateurs confirment que la SMC continue de bien faire rapport de ses revenus et dépenses. Le bureau administratif de la SMC croit toujours que les services des vérificateurs sont un bon rapport qualité-prix.

La faiblesse du dollar américain continue d'exercer de la pression sur les résultats d'activités et, en tout réalisme, on ne prévoit aucun changement au cours des 18 ou 24 prochains mois.

La SMC continue d'éprouver des difficultés financières en 2011 en raison de la baisse des revenus liés aux adhésions et aux publications. Les inscriptions à la Réunion d'été 2011 à Edmonton sont aussi en baisse comparativement aux années précédentes; le nombre de sessions, principal indicateur de la santé financière des Réunions de la SMC, est aussi en baisse. Compte tenu de la situation économique actuelle, il est très improbable que les résultats de 2011 soient aussi bons que ceux de 2010.

La SMC n'est pas seule à éprouver des difficultés financières et professionnelles. À peu près toutes les associations professionnelles et sociétés savantes sont dans une situation semblable. Leurs membres réclament des activités électroniques spécialisées qui dépassent leur réseau professionnel, qui invitent à la collaboration en recherche et facilitent leur apprentissage.

Le directeur administratif, le Comité des finances et le Comité exécutif sont très conscients de ces tendances et du fait que la SMC doit continuer à diversifier et à élargir sa base de revenus de manière à offrir des programmes et des services qui intéresseront la communauté mathématique canadienne.

ADVANCEMENT OF MATHEMATICS COMMITTEE REPORT

Chair - Jacques Hurtubise (McGill)

The *Advancement of Mathematics Committee* oversees the activities of the CMS for advancement and development of mathematics, including monitoring activities both within and without the Society and determining opportunities for the co-ordination of, outreach, publicity, fund raising and other promotional activities. The Committee advises the Board of Directors and the informal Development Group (consisting of the Executive Committee and the chairs of each standing committee) on matters concerning the Society's activities in these areas.

In 2010, the Board, the Executive, other committees, staff, and the community organized NSERC Math and Stats Liaison Group, were more engaged in the affairs of the CMS and as such, the demands on the AMC were such that meetings of the committee were not required.

BILINGUALISM COMMITTEE REPORT

Chair - Joseph Khoury (Ottawa)

The *CMS Bilingualism Committee* oversees the bilingual character of the education, publication and research programs, as well as the electronic and other activities of the Society. This includes ensuring the majority of the Society's public documents are produced bilingually, ensuring that highly scientific documents are translated appropriately in a way that preserves the scientific value in both languages, and assisting with the translation and review of documents.

Like last year, the committee's work was mainly concerned with ensuring that some important public documents of the Society were provided in both languages, especially documents containing highly technical material that could not possibly be done by a language translator (non-mathematician). As usual, this requires a considerable effort and broad knowledge of areas of research in mathematics.

The following is a summary of the Committee's activities for 2010:

- Translation of The G. de B Robinson Press Release
- Providing the French for the Canadian Mathematical Olympiad (CMO) Questions
- Providing the French for the Canadian Mathematical Olympiad (CMO) Report
- Providing Technical assistance with the IMO Press Release
- Providing the French for the IMO results for the CMS webpage
- Providing the French for the Asian Pacific Math Olympiad Questions
- Discussed and reviewed the new proposed CMS language policy.

EDUCATION COMMITTEE REPORT

Chair: Peter Taylor (Queen's)

The *CMS Education Committee* oversees all activities of the Society in the field of education. This includes implementing education strategies consistent with the CMS mission and expanding the existing CMS educational programs or creating new ones with the goal of impacting more students and educators. This is accomplished by reviewing reports and issues that may have an impact on education-related topics pertaining to the CMS, by selecting winners for national education prizes and by recommending support for various educational activities.



Peter Taylor, Jennifer Hyndman and Sean Chamberland (Nelson)

As part of these general objectives, the committee has a number of specific tasks. These include the selection of organizers for the education sessions at the semi-annual meetings, the annual selection of the winners of the CMS education awards, the allocation of grants to provincial math contests, and, under the purview of the Math Camps Coordinator, the organization of the CMS Math Camps program. Starting in 2011, the committee has taken on a new duty, the selection of the winners of the Math in Moscow Scholarship.

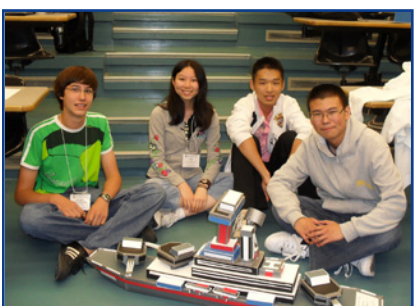


Miroslav Lovric and Harley Weston

➤ The winner of the 2010 Teaching Award was Dr. Jennifer Hyndman of the University of Northern British Columbia.

➤ The winner of the 2010 Adrien Pouliot Award was Dr. Miroslav Lovric from McMaster University.

➤ The education session at the summer meeting in Fredericton was organized by Alyssa Sankey with the consultation of Maureen Tingley, Eric Robert and John Grant McLoughlin with the theme of first-year teaching. The Education plenary speaker was Eddy Campbell, the President of UNB and he talked on Mathematics in the University of Today.



University of Ottawa Math Camp

➤ The education session at the winter meeting in Vancouver was organized by Jennifer Hyndman (UNBC) and Mark MacLean (UBC) and featured Science One, an innovative program at UBC. The education plenary speaker was Carl Wieman of UBC.

➤ The committee expanded the scope of the provincial competition grants and advertised them more broadly. The committee awarded 9 grants of a total amount of \$5000.00. The successful applicants were from the provinces of British Columbia, Alberta, Manitoba, Ontario, Quebec and New Brunswick.

Math Camps

The CMS Math Camps program continued to grow in 2010. There were sixteen regional camps across the country, at least one in every province. This marks an increase of two camps over 2009. The campers consisted of 451 students ranging from grade 6 to grade 11, and 37% of the participants were female. For information on the National Math Camp, please see the Math Competitions Committee Report (page 23).

CMS Math Camps operate under a wide variety of formats. Eleven were residential camps and six were day camps. A few of the camps have an open registration but most are by invitation only with campers being selected on the basis of their results in various provincial and national math contests, and on recommendations from teachers. The math camps program will expand further in 2011.

ELECTRONIC SERVICES COMMITTEE REPORT

Chair - Jacques Carette (McMaster)

The *Electronic Services Committee* (ESC) provides policy oversight for services provided by the *Electronic Services Group* (ESG - Ottawa) and the electronic aspects of the work of the *Publications Office* (Pub - Winnipeg).

As in the past, ongoing operations (managing the CMS servers, providing support for the CMS office staff, etc.) continues to require roughly half the time of the ESG. However, progress is being made in creating tools so that the main stakeholders for various parts of the CMS web site can make changes directly. Again in 2010, an office move required extra planning from the ESG to ensure minimal operational downtime for services.

The main 2010 project, in terms of visibility to CMS members, is the new automated system for abstract submissions for meetings. The real-time previewing of LaTeX abstracts helps ensure good quality results but does not require internal review. Furthermore this means that abstracts now get posted much more quickly.

Through the ESG, the CMS offers several services to the wider Canadian mathematical community. Contract work for the Statistical Society of Canada, as well as work for the CanaDAM conference also benefit the CMS, through (some) revenue, improved tools, and goodwill and recognition. More specifically, work for managing and displaying meeting data, originally done for the SSC and CanaDAM conferences, will also be deployed for CMS meetings; the software for the SSC's 2011 elections will be adapted for the CMS's use in 2011; as well as the setting-up of a modern, automated membership system for the SSC.

Through several of these projects, the ESG has become proficient with some modern tools for web software (like Django and Drupal), which should increase their ability to deliver future web-based projects more efficiently. The change from custom-made software to (small-scale) customization of existing web infrastructure software is the right move for an organization of the size of the CMS.

ENDOWMENT GRANTS COMMITTEE REPORT

Chair - Hassan Safouhi (Alberta)

The *CMS Endowment Grants Committee* adjudicates 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.

In 2010, the committee awarded grants totaling \$7,500 to five projects:

- Association Québécoise des Jeux Mathématiques (Laval), a championship of math and logic games;
- MathLink (Carleton), an enrichment program for high school students;
- Canadian Math Kangaroo Outreach Training Program (Concordia University College), enrichment activities that prepare students for the Math Kangaroo contest;
- The Northwestern Ontario High School Mathematics Contest (Lakehead);
- The Bridges Lecture Series (St. Jerome's University), a lecture series that intends to bridge the gap between mathematical topics and the general public.



Canadian Math Kangaroo Contest

FINANCE COMMITTEE REPORT

Chair - Yvan Saint-Aubin (Montréal)

The *CMS Finance Committee* oversees the financial activities of the Society and advises the Board on general financial policy.

The most important news from our committee is that the year 2010 might end with a slight surplus. This is good news indeed. But concerns for the long term remain. The proposed 2011 budget sent to the Executive Committee in October still carries a deficit. Serious measures have to be considered.

Several ideas are being actively discussed to move toward a healthier budget. The previous Chair of the Finance Committee, Ken Davidson, noted in his last report how the CMS depends critically on the revenues of its journals, the CJM and the CBM. One difficulty is that the subscription rates for non-Canadian institutions are in US dollars. When the US dollar was strong compared to the Canadian one, this meant more revenue for the CMS. As of this writing, the Canadian dollar is worth more than the US one, with no indications of weakening. The Committee is considering increasing the Canadian and the non-Canadian rates by different percentages. But other revenues must also be sought. The Committee is currently exploring ways of diversifying CMS sources of revenue.

I end this report by noting that the structure of the budget has changed in 2010. It is now split under the general headings of Advancement, Discovery, Learning and Application. Of course the revenues and expenses generated by our Summer and Winter meetings appear under Discovery and those of the math camps under Learning. But several items are now more appropriately placed. For example the Adrien-Pouliot award has gone to Learning (it was under Meetings), and our journals CJM and CBM are now under Discovery (they were under Publishing). The four new subdivisions of the budget now reflect the main goals of the CMS as they are presented in official documents : *the goal of the Canadian Mathematical Society is to promote the advancement, discovery, learning and application of mathematics*. The transformation of the budget has required an enormous effort from the Office and Yvette Roberts and Johan Rudnick have to be thanked for it.

INTERNATIONAL AFFAIRS COMMITTEE REPORT

Chair - Niky Kamran (McGill)

The *International Affairs Committee* oversees the activities associated with international mathematics organizations and considers other matters of an international nature which are of interest to the Canadian mathematical community. The committee acts as the Canadian National Committee to the International Mathematical Union (IMU).

The main piece of positive information to have emerged for Canada from the IMU General Assembly held in Bangalore on August 16 and 17, 2010, is that our nomination of Christiane Rousseau as Vice-President of the International Mathematical Union has been successful. This is a first in the history of the Canadian mathematical community. Otherwise, we had the disappointing news that the Canadian bid for hosting the IMU stable office at the Fields Institute was unfortunately not successful, and neither were the other nominations we submitted for the IMU presidency or for a seat on the IMU Executive.

Another positive piece of information is that the performance report prepared by the Committee and submitted to the NRC in the Fall has been approved by the NRC. In practical terms this means that the NRC will pay the IMU membership fee for Canada (about \$19,000) for another year.

INVESTED FUNDS COMMITTEE REPORT

Chair - David Bates

The *CMS Invested Funds Committee* is responsible to the Board for the administration of the CMS Endowed Funds.

The Invested Funds Committee met twice during 2010, once in April and again in October. During the April meeting, the ongoing recovery from the recent global credit crisis and its effect on the invested funds was reviewed. Overall, the funds grew 17.51 % over the year ending March 2010 compared with a 17.63 % rise in the corresponding indexes. The funds' performance, together with Management Expense Ratios (MER's) and Exchange Traded Funds (ETF's) were reviewed and discussed. Overall, the single flat administration fee charged to the Fund by TD Asset Management was reaffirmed as competitive and our current passive and diversified investment strategy was felt to be appropriate.

At the October meeting, a review of the Investment Fund Report as of September 30, 2010 revealed a yearly overall investment return of 5.76% and 7.40% over the most recent 3 months. It was noted that the equity markets have been less volatile than during 2009 and that much of the funds' recent growth has been due to strong returns in the bond market. The funds' Canada Real Return bond holding was particularly cited for its contribution to our recent gains. TD Asset Management introduced two modified investment strategies for the committee to consider and agreed to provide the committee with additional information. Both strategies attempt to enhance the return/risk profile for the Fund without increasing volatility.

Concern regarding the need for preservation of the Endowed Funds' capital prompted the Committee to retain its cautious funding level for each endowment fund of 3% of the corresponding year end fund value less administration costs. The following projected allocations for the Endowed Funds for 2011, net of administration fees, were approved: \$7,193 for the CMS Endowment Fund, \$3,445 for the Olympiads Fund, and \$955 for the David Borwein Fund.

A discussion of our need to balance the requirement to preserve capital with the need to maintain annual allocations led to no immediate decision. However, it made clear the need to determine the size of fund necessary to meet our ongoing costs and then find ways to increase the funds to this level.

MATHEMATICAL COMPETITIONS COMMITTEE REPORT

Chair - Neal Madras (York) and Bill Sands (Calgary)

The *CMS Mathematical Competitions Committee (MCC)* oversees the Society's involvement in mathematics contests. The CMS administers two competitions: the Sun Life Financial Canadian Open Mathematics Challenge (COMC) and the Canadian Mathematical Olympiad (CMO). In addition, the MCC is responsible for Canada's participation in the Asian Pacific Mathematics Olympiad (APMO) and the International Mathematical Olympiad (IMO), and supervises the CMS National Math Camp.

Most of the work of the MCC is done by its four subcommittees (the COMC, CMO, and IMO Committees, and the Correspondence Coordinator). The MCC and (especially) its subcommittees 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. The CMS Executive Office, especially the Executive Director Johan Rudnick, also deserves our gratitude for their dedication.



The Sun Life Financial Canadian Open Mathematics Challenge

November 2010 marked the fifteenth writing of the COMC, and its fourth writing under the banner of Sun Life Financial. Since its inception, the COMC has been a collaborative activity between the CMS and the Centre for Education in Mathematics and Computing (CEMC) at the University of Waterloo. However, 2010 is the final year that the CEMC will be involved in the operation of the COMC. Thanks are due to the Problems Committee and tireless markers assembled by the CEMC this year, as well as to their counterparts over the past 15 years.

The COMC has several purposes. First and foremost, it aims to encourage students in their exploration of mathematics and problem solving. Second, the COMC provides an enrichment activity for teachers to use with their students during the Fall term. Third, the COMC 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 2010 edition of the COMC had a record number of almost 8800 participants (with more than 9800 registrants). Of these, over 1400 were international competitors. The paper 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 top five competitors in the 2010 COMC were: **Calvin Deng**, Cary Academy, Cary, NC, USA; **Mariya Sardarli**, Strathcona Composite H.S., Edmonton, AB; **Alex Song**, Detroit Country Day School, Detroit, MI; **Hunter Spink**, Western Canada H.S., Calgary, AB; and **Susan Sun**, West Vancouver S.S., West Vancouver, BC. Further details are available at: <http://cms.math.ca/Competitions/COMC/>.



Alex Song receives the Sun Life Financial Cup from Neil Haynes, Senior Vice-President, Sun Life Financial, and Kalle Karu, Chair, CMO Committee

The Canadian Mathematical Olympiad

The 42nd Canadian Mathematical Olympiad was written by 98 candidates on Wednesday, March 24, 2010. Eight students were presented with awards at the annual Awards Banquet at the University of Waterloo on Thursday, June 10, 2010:

FIRST PRIZE and the Sun Life Financial Cup: **Alex Song**, Vincent Massey Secondary School, Windsor, ON;

SECOND PRIZE: **James Rickards**, Colonel By Secondary School, Greely, ON;

THIRD PRIZE: **Jonathan Zung**, University of Toronto Schools, Toronto, ON.

HONOURABLE MENTIONS were awarded to: **Yu (Robin) Cheng**, Pinetree Secondary School, Coquitlam, BC; **Zhi Qiang Liu**, Don Mills Collegiate Institute, Toronto, ON; **Chen Sun**, A.B. Lucas Secondary School, London, ON; **Jixuan Wang**, Don Mills Collegiate Institute, Toronto, ON; and **Yuqi Zhu**, University Hill Secondary School, Vancouver, BC.

Remarkably, the First Prize winner, Alex Song, was only 13 years old and was in grade seven at the time. A full report of the CMO, including the question paper, solutions and analysis of the marking can be found at <http://cms.math.ca/Competitions/CMO/>.

Sixty-eight candidates for the CMO were invited on the basis of their high performance in the Canadian Open Mathematics Challenge (COMC) written in November 2009. The next 100 highest scoring students from the COMC were invited to write the CMO Qualifying Repêchage (CMOQR) in January 2010. In the CMOQR, a set of problems are posted on-line and participants must submit their solutions within one week. 81 of the invited students submitted solutions, which were graded by a team of markers at the University of Waterloo under the supervision of Ian VanderBurgh. On the basis of the results, 24 additional students were invited to write the CMO. In addition, the top three students from Quebec Concours and the Alberta High School Mathematics Competition were invited to the CMO.

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.



Math Team Canada celebrates their victory

International Mathematical Olympiad

The 51st International Mathematical Olympiad (IMO) took place in Astana, Kazakhstan, from July 5 to July 14, 2010. The six high school students on the Canadian team were **Yu (Robin) Cheng**, Pinetree Secondary School, Coquitlam, BC; **Alex Song**, Detroit Country Day School, Detroit, MI, USA; **Hunter Spink**, Western Canada High School, Calgary, AB; **Chen Sun**, A.B. Lucas Secondary School, London, ON; **Yuqi Zhu**, University Hill Secondary School, Vancouver, BC; and **Jonathan Zung**, University of Toronto Schools, Toronto, ON.

The Team Leader was Mr. Adrian Tang of the University of Calgary, the Deputy Leader was Ms. Victoria Krakovna of the University of Toronto, and the Deputy Leader Observer was Mr. Alexander Remorov of the University of Toronto.

The Canadian team placed 13th out of 96 countries, which is one of Canada's best placements in the past two decades. Gold Medals were awarded to Yu (Robin) Cheng and Hunter Spink, a Silver Medal to Chen Sun, Bronze Medals to Yuqi Zhu and Alex Song, and an Honourable Mention to Jonathan Zung. Notably, Yu (Robin) Cheng and Hunter Spink were ranked 7th and 11th in the world respectively. The team's total score was 129 out of 252. The CMS's Media Release on the 2010 IMO results is at <http://cms.math.ca/MediaReleases/2010/imo-results>.

The IMO Winter Training Seminar was hosted by York University, January 5–10, 2010, and was attended by twelve high school students from across Canada. The local organizer was Peter Gibson, assisted by Neal Madras and Alfred Pietrowski (all of York), as well as the staff of the Department of Mathematics and Statistics and of Bethune College. The program of the seminar was organized by the three team leaders, with additional trainers David Arthur (Stanford), Jacob Tsimerman (Princeton), and Yufei Zhao (MIT), and marking support from Janos Kramar, Cynthia Li, Leonel Robert, Jonathan Schneider, Peng Shi, and Lindsey Shorser.

The IMO Summer Training Seminar took place at Wilfrid Laurier University from June 27 to July 5, immediately before the team departed for Kazakhstan. Edward Wang (Wilfrid Laurier) and Christopher Small (Waterloo) assisted with the logistics. Johan Rudnick (CMS) hosted a sendoff event for the team. A report on the 2010 IMO by the three leaders was published in the October–November 2010 issue of the CMS Notes. More information regarding the 2010 IMO can be found at: <http://cms.math.ca/Competitions/IMO/>.

The Asian Pacific Mathematics Olympiad

The 22nd Asian Pacific Mathematics Olympiad (APMO) was written on March 8, 2010 in North and South America, and on March 9 in the Western Pacific and Asia, with Japan serving as the coordinating country. Of the 27 Canadian students who wrote the four-hour competition, 10 were Canada's official participants. The top Canadian student was **Calvin Deng** (Enloe High School, Raleigh, NC, USA), who was awarded a Gold Medal. **Chen Sun** (A.B. Lucas Secondary School, London, ON) and **Mariya Sardarli** (Strathcona Composite High School, Edmonton, AB) were awarded Silver Medals. Bronze Medals went to **Jonathan Zung** (University of Toronto Schools, Toronto, ON), **James Rickards** (Colonel By Secondary School, Ottawa, ON), **Yuqi Zhu** (University Hill Secondary School, Vancouver, BC) and **Robin Cheng** (Pinetree Secondary School, Coquitlam, BC). Further details regarding the APMO are available at: <http://cms.math.ca/Competitions/APMO/>.

Mathematical Olympiads Correspondence Program

The Mathematical Olympiads Correspondence Program (Olymon) started in 2000 as a continuing program in which secondary school students submit solutions to problems for marking.

In 2010, there were five sets of problems, set and marked by Ed Barbeau. Each problem first appeared as a Problem of the Week that was e-mailed to a list of about 200 high school students. Generally, each problem attracted solutions from five to ten students; this number has been declining in recent years. Due to reduced participation by students, as well as to the abundant sources of other problem materials on the web, Ed Barbeau decided to discontinue the Olymon as of June 2010. He now directs students to Crux Mathematicorum With Mathematical Mayhem and the International Mathematical Talent Search Problems (on the CMS Competitions web page), and encourages them to send him solutions. The 683 Olymon problems with solutions will remain posted on both the websites <http://cms.math.ca/Competitions/MOCP/> and <http://www.math.utoronto.ca/barbeau/home.html>, so students can practice and check their solutions.

The Mathematical Competitions Committee and the Canadian Mathematical Society are enormously grateful for Ed Barbeau's contribution to the development of young mathematical talent over the past decade through the Correspondence Program.



2010 National Math Camp Participants

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 only.

The 2010 CMS National Math Camp took place at University of Windsor from July 12 to 17, with Richard Caron as the main organizer. Twenty students attended the camp (5 female, 15 male). The selection process is based predominantly on the results of the COMC.

The Camp was a great success: there were 7 students from BC, 9 from Ontario and 1 each from Manitoba, Saskatchewan and Nova Scotia; also a Canadian from Indiana. Richard Caron hopes to invite 25 students next year; he will attempt to raise funds to offset travel expenses and will work hard to attract more female students to the Camp. The 2011 Camp will be held July 11 to 16.

NOMINATING COMMITTEE REPORT

Chair - James Lewis (Alberta)

Over 150 individuals contribute to the work of the CMS by serving on the CMS Board of Directors or a CMS standing committee or sub-committee. The *CMS Nominating Committee* and various standing committees and boards actively solicit and recruit individuals with an interest in making a contribution to the Canadian mathematics community. The Nominating Committee is also responsible for reviewing the terms of reference for all the standing committees.

In 2010, across the standing committees, 19 appointments were made for 17 individuals. On the CMS Editorial Boards, 9 appointments were made for 9 individuals. At the sub-committee level, 19 appointments were made for 15 individuals. Including three other appointments, in total, the Nominating Committee and various standing committees managed 50 appointments of 41 volunteers. The net result was that at the end of 2010 there were 32 vacancies on CMS committees. In addition, a new Education sub-committee for the Math in Moscow program was created and number of committee and sub-committee amendments were undertaken to facilitate increased participation on the respective committees.

There is an enormous amount of energy and talent within the Canadian mathematical community. Nevertheless, there continues to be a significant challenge for the Nominating Committee and others to identify individuals willing to contribute their talents and expertise to the CMS, especially individuals who have not served the CMS before. Given the turnover in mathematics faculty and the changing demographics it is especially important to engage “new people.” Furthermore, the continuing change in gender balance in graduate schools and faculties across the country reinforce the need to recruit more women participants in CMS activities.

The CMS is extremely grateful to all the volunteers who serve the CMS with commitment and passion. Without the efforts of these individuals, the ‘good works’ of the CMS could never be undertaken.

PUBLICATIONS COMMITTEE REPORT

Chair - Ken Davidson (Waterloo)

The *CMS Publications Committee* oversees and participates in various activities of the Society related to its publications. This was my first year as chair of this committee. Andrew Toms, Javad Mashreghi and Mary Pugh completed their terms on this committee. Murray Bremner continues, and Pengfei Guan continues as the representative of the Executive. Michael Bennett, Patrick Brosnan and Zighou Hu have joined the committee in 2011. The editors-in-chief of various journals and series serve ex-officio on Publications, as well as the Executive Director and publications support personnel.

Canadian Journal of Mathematics and Canadian Mathematical Bulletin



The current Editors-in-Chief of the Canadian Journal of Mathematics are Henry Kim and Robert McCann of the University of Toronto. They are completing their term in 2011, but have agreed to continue for a second term.

The Editors-in-Chief of the Canadian Mathematical Bulletin, Nantel Bergeron and Jianhong Wu of York University, completed their five year term. We thank them for a job well done. They are succeeded in 2011 by Terry Gannon and Volker Runde of the University of Alberta.

The joint editorial board of CJM/CMB had Alan Dow and George Elliott finish their terms. Also Stephen Kudla has resigned in early 2011. We have appointed new associate editors: Yuri Bahturin, Ilijas Farah, Izabella Laba, Alex Nabutovsky, Frank Sottile and Michael Ward. As three more retire in 2011, we will be seeking nominations for more board members soon.

Progress is being made at reducing the backlog of CJM and CMB, both in the acceptance stage, and in the production stage; and extra pages have been added to CMB. We are aiming for a situation where an accepted paper will be posted online within a few months. At the moment, there is a significant backlog in this aspect of the operation. Some extra manpower has been found to help fix this.

The 2010 G. de B. Robinson Award is awarded to Andrew Toms and Wilhelm Winter for their paper Z-Stable ASH Algebras (CJM 60 (2008), 703–720). This prize honoured a top paper published in CJM in 2008 or 2009. This coming year, we are seeking a strong paper in CMB published in 2009 or 2010.

CMS Notes



The Editors-in-Chief of the CMS Notes are Robert Dawson of Saint Mary's University and Srinivasa Swaminathan of Dalhousie University. Their term ends in 2011, but they have agreed to continue for another term. John Grant McLoughlin and Jennifer Hyndman began a term as Education Editors in 2010. Florin Diacu began a term as Research Editor in 2011.

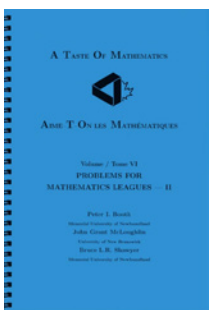
Keith Johnston has just finished his term as Book Reviews Editor and Renzo Piccinin has agreed to succeed him. We are currently examining the Notes with a view to making some changes to make them of greater interest to our members. Suggestions are welcome.

Crux Mathematicorum with Mathematical Mayhem



Václav Linek of the University of Winnipeg has completed his term as the Editor-in-Chief of Crux Mathematicorum with Mathematical Mayhem. We thank him for his efforts over the past several years. After an extended negotiation, we are happy to announce that Shawn Godin of the Ottawa Region School Board has agreed to take on this task. A number of other changes on the editorial board have been made. CRUX has been asked to develop a new plan to revitalize the publication, and that process is currently under development.

A Taste of Mathematics



The Editor-in-Chief of the series A Taste of Mathematics (ATOM) is Bruce Shawyer of Memorial University. His term ends in 2011. Alistair Lachlan of Simon Fraser University will be replacing him. Two books have recently appeared:

ATOM Volume X: Modular Arithmetic by Naoki Sato (2010)

ATOM Volume XI: Problems for Junior Mathematics Leagues by Bruce L.R. Shawyer and Bruce B. Watson (2011).

CMS Books in Mathematics

Karl Dilcher and Keith Taylor of Dalhousie University are the Editors-in-Chief of the CMS Books in Mathematics Series, published by Springer. The following four volumes were published in the series in 2010 or will appear in 2011, and two more books are under contract:



Selected Topics in Discrete Geometry, by K. Bezdek (2010);

Banach Space Theory, by M. Fabian, P. Habala, P. Hajek, V. Montesinos Santalucia, J. Pelant and V. Zizler (2011);

Simplicial Structures in Topology, by D. Ferrario and R. Piccinini (2011);

Convexity and Fixed Point Algorithms in Hilbert Spaces, by H. Bauschke and P. Combettes (coming in 2011).

Henri Darmon of McGill University is the Editor-in-Chief of the **CMS Treatises in Mathematics** published by A.K. Peters. This publishing house has recently been taken over by CRC. There are currently no books in the queue.

The Publications Office is headed by Craig Platt of the University of Manitoba as Technical Editor, Srinivasa Swaminathan of Dalhousie University as Associate Technical Editor, and Michael Doob of the University of Manitoba as Technical Consultant. Computer support from Steve La Rocque and administrative support from Denise Charron comes from the Ottawa office.

We thank everyone for the efforts they have put in on this extensive publishing effort.

RESEARCH COMMITTEE REPORT

Chair - David Brydges (UBC)

The *CMS Research Committee* oversees the research activities of the Society. This includes helping to select the scientific organizers for the summer and winter meetings, participating in the scientific organization of these meetings, playing a major role in the selection of winners for the research prizes and advising the Executive committee on research related issues.

AWARDS

The Research 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 Prize by women).

The 2010 prize winners were as follows:

Coxeter-James: **Bálint Virág**, University of Toronto

Jeffery-Williams: **Mikhail Lyubich**, University of Toronto

Krieger-Nelson: **Lia Bronsard**, McMaster University



David Brydges and Lia Bronsard

The Research Committee also appoints the members of the Doctoral Prize Selection Committee (one of whom must be a member of the Research Committee). The Doctoral Committee selected **Benjamin Young** (Ph.D. University of British Columbia, 2009) as the recipient of the 2010 Doctoral Prize for his thesis supervised by J. Bryan and R. Kenyon.

2010 CMS SUMMER MEETING

The 2010 CMS Summer Meeting took place June 4-6 in Fredericton, New Brunswick. The Scientific Directors for the meeting were Hugh Thomas and Barry Monson, (University of New Brunswick). There were 18 scientific sessions. The meeting attracted 320 participants. The program included plenary lectures by Idun Reiten (Trondheim), Kristin Schleich (UBC), Eddy Campbell (UNB), Gunther Uhlmann (Washington), Gerda de Vries (Alberta), Henri Moscovici (Columbus, Ohio). A public lecture was given by Jason Brown (Dalhousie University) entitled *A Hard Day's Math: The Connections Between Mathematics and Music*.

Prize lectures were given by Jennifer Hyndman (UNBC) – Excellence in Teaching Award, Mikhail Lyubich (Toronto) – Jeffery-Williams Prize, and Bálint Virág (Toronto) – Coxeter-James Prize.



Mikhail Lyubich, Jacques Hurtubise and Bálint Virág

2010 CMS WINTER MEETING

The 2010 CMS Winter Meeting took place December 4-6 in Vancouver, British Columbia. The Scientific Directors were Brian Marcus and Jozsef Solymosi (UBC). The meeting had 17 scientific sessions. The meeting attracted 415 participants. Plenary lectures were given by David Aldous (Berkeley), David Donoho (Stanford), Sujatha Ramdorai (UBC, IAS), Peter Sarnak (Princeton), Carl Wieman (UBC), Tamar Ziegler (Technion). A public lecture was given by Ron Graham (UCSD) entitled *Searching for the Shortest Network*.

Prize lectures were given by Miroslav Lovric (McMaster) – Adrien Pouliot Award, Benjamin Young (UBC) – Doctoral Prize, and Lia Bronsard (McMaster) – Krieger-Nelson Prize.



David Brydges and Benjamin Young

STUDENT COMMITTEE REPORT

Co-Chairs - Kseniya Garaschuk (Victoria) and Sarah Plosker (Guelph)

The *CMS Student Committee* (Studc) promotes interaction between Canadian post-secondary mathematics students and considers other matters of interest and concern to post-secondary mathematics students in Canada.

The Student Committee had a very successful year in 2010 that laid a strong foundation for 2011. Our events at CMS meetings are now more popular than ever, our poster sessions are gaining momentum, we have seen an increase in student CMS memberships and the first edition of our revised newsletter, now called *Notes from the Margin*, came out in Winter 2011.

Change of Membership

We would like to thank the members whose term has ended over the past year: Bradley Dart, Nathaniel Johnson, Natasha Richardson, Jenna Tichon and Richard Zsolt. We also welcome our newest members this year, Anika

Pascale, Mark Penney, Jody Reimer, Jerrod Smith and David Thomson.

Summer meeting in Fredericton

Poster Session



The 2010 CMS Summer Meeting hosted the first student poster session. With 12 posters, we saw a variety of topics being presented. Poster presenters were evaluated and the top three were presented with award certificates at the banquet: the AARMS Award went to **Fan Yu** (UNB), the CMS President's Award to **Xiao Liu** (Toronto) and the CMS Student Committee Award to **Brendan Wood** (UNB). We received very positive reviews from both the student participants and the judges. Most importantly, we knew the areas we had to improve on for the next poster session.

Panel discussion

The committee organized and hosted a panel discussion *The Hiring Process* aimed at informing students on what it takes to become a professor in today's job market. The panel consisted mainly of faculty members who had recently served on hiring committees. It was very well attended and the enthusiastic audience asked many questions. In fact, there were many other faculty members in the audience and that stimulated a very lively discussion. The article summarizing the panel discussion appeared in the 2010 issue of the Studc newsletter.

Social

The social was a great success with about 40 people attending our bowling alley event. We advertised it widely by including flyers in the conference packages and even had door prizes. Students loved the atmosphere and happily split into teams for some friendly competition. It was a great and very well received alternative to the usual pub scene and we are looking for other similar events we can hold at CMS meetings in the future.

Winter meeting in Vancouver

Poster Session

With 17 posters and more refined judging criteria, the poster session went much smoother than the previous one. To help presenters with poster creation, we had prepared a poster tips document as well as links to LaTeX files of poster templates - all posted on the conference web site. Presenters were judged on the content and organization of the posters as well as their oral presentation. Awards were as follows: the AARMS Award - **Peter Bell** (UBC), the CMS President's Award - **Garret Flowers** (Victoria), and the CMS Student Committee Award - **Brittany Froese** (SFU). Posters were displayed in the registration area and attracted many conference attendees, became good conversation starters and created a nice flow in the area. In addition, Garret Flowers wrote the feature article *Foxy Knots*, based on his poster, for the first edition of *Notes from the Margin*.

Panel Discussion

The topic of *The Hiring Process* was so widely received at the Summer Meeting that the committee received many requests to have another panel on the same topic at the Winter Meeting. Since the meetings were on opposite ends of the country, the sets of students attending either meeting were virtually mutually exclusive, and again the panel was well attended. Students were concerned about the recent decline in openings for tenure track positions and wanted to know where to look to find job openings. The panelists were able to supply the students with a long list of websites where openings are posted. Other hot topics included the strategies for increasing your chances of getting an interview and negotiating salary.

Social

With the schedule for the meeting being so full, we struggled to find the time for a social activity similar to the one held in Fredericton. We, therefore, held the student social event at a popular pub in Vancouver within a walking distance of the conference venue; a group of approximately 40 students, post-docs and faculty attended the event.

Canadian Undergraduate Mathematics Conference

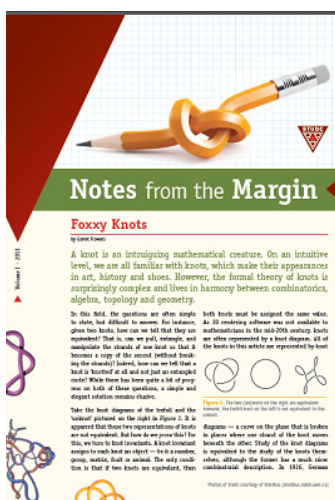


The CUMC 2010 took place in Waterloo on July 6-10, 2010. With approximately 250 participants, this 17th edition of the conference was the largest one yet. The conference featured 8 keynote speakers and over 100 talks given by student participants. CUMC has proven to provide a valuable opportunity for students to practice giving mathematical talks on a topic of their choice, encounter ideas from various areas of mathematics, listen to renowned keynote speakers from a variety of disciplines and see a new Canadian mathematics department at the hosting university. The CUMC 2011 will be held at the University of Laval, Quebec City, QC.

Student Newsletter

We have struggled over the years to interest students in our newsletter. Much like the issues that CRUX with MAYHEM is now facing, the Studc newsletter was too plain looking for the current demanding audience and was simply not reaching many of them. It was in need of a major facelift. Using the 2010 budget, we re-branded the newsletter as *Notes from the Margin* and had it professionally designed. We hope that this will breathe new life into the whole idea of the newsletter and increase exposure to the Student Committee and, by extension, the CMS. It is now professional, yet youthful and it definitely draws the eye. In the subsequent issues, we hope to have three central themes to the newsletter (which will be made clear in style and color): a) notices and announcements, b) research-driven: feature article, c) teaching-driven: editorial and informative. These themes mirror the twin goals of CMS of advancing both discovery and learning.

The goal for the newsletter at this stage is to increase exposure. This has the dual goal of not just promoting the Student Committee, but also for increasing the possibility of obtaining outside sponsorship. With increased sponsorship, we will be able to extend the newsletter, both in length and in design, adding content and visuals and not increase our reliance on the CMS.



We were lucky to be able to use the 2010 newsletter budget to pay for the development of the template and of our first issue. Unfortunately, our newsletter budget was cut for 2011. With the increased, but highly worthy, production costs, this is now a big issue. Although we will distribute the newsletter electronically to universities all over Canada, we would like to see it in every mailroom/lunchroom/department office across the country. With the current 2011 budget, we cannot afford to print and distribute even a single copy to every university in Canada, so we had to limit ourselves to the 45 largest ones. Without increasing the budget (or indeed, reverting the 2011 budget to the 2010 levels), we will be unable to afford the new design and development costs. These issues are critical in order to increase the readership and exposure of *Notes from the Margin*, and to build confidence in the publication so that we can develop a self-sustaining business model for the newsletter moving forward.

Studc Logo and Banner

The committee worked with a graphics designer to create a logo that is now featured on our website and all of our promotional materials. It is easily recognizable and can be used both in full color and in black and white. With expanding projects, having a consistent logo (based on a mathematical concept, namely the Sierpinski triangle) enhances the Student Committee brand recognition. This logo is already being incorporated in the development of the template of *Notes from the Margin*.

With help from the CMS, the Student Committee now has a banner. Developed by a graphics designer, it is professional, clean, transportable and easy to set up. Starting with the Summer 2010 Meeting, it will now be displayed at every CMS meeting and every CUMC conference.

Math Unions and Departmental listservs

We are compiling and updating both a list of math student unions and departmental student listservs of every Canadian mathematics department. Each committee member was responsible for contacting and getting information about student unions in his/her area of the country, but, due to committee member turnover, some regions are not yet completed. Once completed, this will allow us to contact students directly. We have also set up the studc-announcements@cms.math.ca e-mail address through which we plan to advertise our events and electronically distribute *Notes from the Margin*.

Studc Website and Facebook group

Our website (<http://cms.math.ca/Students/>) contains all the back issues of the student newsletter, updated biographies of all Studc members, forms for applying for our regional funding and CUMC scholarship, links to several “how to” guides and much more. The goal for the 2011 year is to reformat the website, providing a more professional design and better layout, and add a direct link to it from the CMS website. The committee also has a Facebook group called “CMS Students/Étudiants de la SMC”. It contains information about the different activities the committee is offering, discussions related to future possible projects as well as pictures from previous events.



Poster session winners in New Brunswick

Vision for the future

Recently, there has been a lot of active participation of graduate students across Canada. The last year alone saw the formation of several new local and regional graduate student societies, such as Students In Graduate Mathematics And Statistics (SIGMAS) at the University of Victoria, the PIMS Graduate Association and the Carleton Graduate Mathematics Student Society just to list a few. Traditionally, the focus of the Student Committee was on upper-year undergraduate students and their interests, as seen, for example, in our overseeing the CUMC.

However, with these recent trends, the Student Committee has been slowly shifting its focus towards graduate students. With that in mind and considering the nature of the new generation of undergraduate students, our target audience is now more mature, technologically advanced, interested only in top quality products and professional delivery.

To serve the needs of our current members, we have had to reconsider the approach to our projects, services and their objectives. For example, the traditional student social has been held at a local pub near the conference venue. However, the student social’s typical attendee is more sophisticated than in past years, and the Student Committee would prefer that funds be placed towards an activity. This was seen through the great success of the Student Social at the CMS Summer Meeting 2010 in Fredericton, NB. Even though the meeting was at a smaller

location, the social was a great success, intermingling mathematicians at all levels - from undergraduate to full professor.

Likewise, our newsletter, the “Student Mathematical Communicator” could no longer be sustained in its most recent form – we needed a professionally designed newsletter that provides consistency, class and keeps our audience interested.

Considering all of the above, we believe we are keeping in close contact with our membership and their interests. With this renewed vision, focused more on the needs of today’s math students, the next several years promise to be very exciting for the Student Committee.

WOMEN IN MATHEMATICS COMMITTEE REPORT

Chair - Kathryn Hare (Waterloo)

The *CMS Women in Mathematics Committee* monitors the status of women in the Canadian mathematical community, recommends actions that will help to ensure the equitable treatment of women mathematicians, and encourages the participation of women in mathematics at all levels.

During the year, we co-organized a social event and panel discussion on life as a woman mathematician held during the Canadian Undergraduate Mathematics Conference (CUMC). This was well attended and sparked excellent discussion. It raised awareness about opportunities and hopefully encouraged the young women to continue with their mathematical studies. We have suggested that this become a regular event at the CUMC. The committee is currently working with the Women in Mathematics committee of the University of Waterloo to organize a two week workshop for undergraduate women to be held during the summer of 2012.

It became apparent during committee discussions that, although more women faculty are being hired, women can still feel isolated and junior women, in particular, would benefit from support and encouragement from more senior women. We would like to encourage mentoring and networking among women, and to assist with this we are planning on holding a luncheon/panel discussion for women at the June 2011 meeting.

The committee is very concerned about the new NSERC emphasis on HQP in awarding grants and the detrimental impact this has on women who (anecdotal evidence suggests) disproportionately hold positions at institutions without graduate programs. These concerns have been voiced to NSERC, the CMS executive, and the Long Range Plan Steering Committee.

ANNEX A

The complete CMS Financial Statements (December 31, 2010) are posted on the CMS website; the information presented in this annex is extracted from the statements.

CMS Financial Position (Dec. 31, 2010)^[1]

	Operations Fund \$	Contingency Fund \$	Endowment Fund \$		Mathematical Olympiads Fund \$		Borwein Distinguished Career Fund \$		2010 Total \$	2009 Total \$
			Capital	Operations	Capital	Operations	Capital	Operations		
ASSETS										
CURRENT ASSETS										
Cash	64,445								64,445	129,471
Short-Term Investments	83,162								83,162	157,861
Accounts Receivable	358,120	18,550							376,670	373,927
Prepaid Expenses	42,506								42,506	59,224
Due From (to) Specified Fund	127,220	(68,223)	(44,787)	9,625	(24,564)	6,128	(4,464)	(925)		
SUB-TOTAL	675,453	(49,683)	(44,787)	9,625	(24,564)	6,128	(4,464)	(925)	566,783	720,483
INVESTMENTS	3,359	928,881	434,497		215,062		56,757		1,638,556	1,518,374
CAPITAL ASSETS	33,884								33,884	38,818
ASSETS TOTAL	\$712,696	\$879,198	\$389,710	\$9,625	\$190,498	\$6,128	\$52,293	(925)	\$2,239,223	\$2,227,675
LIABILITIES										
CURRENT LIABILITIES										
Accounts Payable and Accrued Liabilities	188,085								188,085	242,848
Deferred Revenue	395,153	184,933							580,086	700,843
LIABILITIES TOTAL	\$583,238	\$184,933							\$768,171	\$943,691
FUND BALANCES										
RESTRICTED		694,265	389,710	9,625	190,498	6,128	52,293	(925)	1,341,594	1,265,213
UNRESTRICTED	129,458								129,458	68,771
FUND BALANCES TOTAL	\$712,696	\$879,198	\$389,710	\$9,625	\$190,498	\$6,128	\$52,293	(925)	\$2,239,223	\$2,277,675

[1] This presentation is intended to generally represent the financial position of the CMS. Financial data is extracted from the March 30, 2011 Auditor's Report (Raymond Chabot Grant Thornton), page 4, excluding the respective accompanying notes from the audited statements.

ANNEX A

The complete CMS Financial Statements (December 31, 2010) are posted on the CMS website; the information presented in this annex is extracted from the statements.

CMS Revenue and Expenditures, Operations Fund (Dec. 31, 2010) ^[1]

	General Division \$		Publishing Division \$		Research Division \$		Education Division \$		Total \$	
	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009
REVENUE										
Grants	1,500				50,042	73,400	90,726	123,208	142,268	196,608
Donations	3,978	4,924	762	812	990	1,096	113,671	108,678	119,401	115,510
Membership Fees	135,782	138,085							135,782	138,085
Registration Fees and Other Sales					188,650	203,735	119,195	151,700	307,845	355,435
Subscriptions and Publications	2	2	739,696	839,198	160	40			739,858	839,240
Services, Advertising and Sales	98,249	78,333	11,260	17,428	6,914	33,876			116,423	129,637
REVENUE TOTAL	\$239,551	\$221,344	\$751,718	\$857,438	\$246,756	\$312,147	\$323,592	\$383,586	\$1,561,577	\$1,774,515
EXPENDITURES										
National Projects	10,314	8,511					240,883	230,601	251,197	239,112
Speakers and Prizes	1,431	584	125	26	49,613	93,362	20,470	52,631	71,639	146,603
Production			114,527	135,081	6,228	6,275			120,755	141,356
Promotional Material	3,631	5,193	15,956	4,036	4,873	4,221	4,683	5,051	29,143	18,501
Salaries and Benefits	178,140	182,875	238,503	262,329	151,934	160,083	91,480	98,778	660,057	704,065
Boards and Committees	32,817	29,676	84,535	78,570	4	133	3,031	2,096	120,387	110,475
Legal and Audit	111	3,986	112	3,986	112	3,986	85	3,030	420	14,988
General Administration	43,296	55,017	63,058	80,726	111,517	147,657	17,127	55,922	235,628	339,322
Amortization of Capital Assets	2,088	3,286	1,601	2,520	5,871	7,497	1,601	2,520	11,161	15,823
Development Campaign	10	496			3	165	14	662	27	1,323
Other Expenditures	242	5,031	234	4,766					476	9,797
EXPENDITURES TOTAL	\$272,710	\$294,655	\$518,651	\$572,040	\$330,155	\$423,379	\$379,374	\$451,291	\$1,500,890	\$1,741,365
EXCESS (DEFICIENCY) OF REVENUE OVER EXPENDITURES	(\$33,199)	(73,311)	\$233,067	\$285,398	(\$83,399)	(\$111,232)	(\$55,782)	(\$67,705)	\$60,687	\$33,150

[1] This presentation is intended to generally represent the financial position of the CMS. Financial data is extracted from the March 30, 2011 Auditor's Report (Raymond Chabot Grant Thornton), page 5, excluding the respective accompanying notes from the audited statements.

ANNEX A

The complete CMS Financial Statements (December 31, 2010) are posted on the CMS website; the information presented in this annex is extracted from the statements.

CMS Revenue, Expenditures and Changes in Fund Balances, Restricted Funds (Dec. 31, 2010)^[1]

	Contingency Fund \$	Endowment Fund \$		Mathematical Olympiad Fund \$		Borwein Distinguished Fund \$		Total \$	
		Capital	Operations	Capital	Operations	Capital	Operations	2010	2009
REVENUE									
Donations		1,860		470		300		2,630	4,105
Dividends, Interest and Other Income	28,228	12,769		6,397		1,699		49,093	50,198
Gain (loss) on Investments Due to Changes in Fair Value	40,351	18,252		9,144		2,427		70,174	105,783
REVENUE TOTAL	\$68,579	\$32,881		\$16,011		\$4,426		\$121,897	\$160,086
EXPENDITURES									
Projects			305		3,176			3,481	1,500
Service Fees	8,626	3,902		1,954		518		15,000	15,000
Invested funds Committee	680		308		154		41	1,183	243
Speakers and Prizes							1,854	1,854	
Other Compensation	24,000							24,000	
EXPENDITURES TOTAL	\$33,306	\$3,902	\$613	\$1,954	\$3,330	\$518	\$1,895	\$45,518	\$19,373
EXCESS (DEFICIENCY) OF REVENUE OVER EXPENDITURES	35,273	28,979	(613)	14,057	(3,330)	3,908	(1,895)	76,379	140,713
Fund Balances, Beginning of Year	658,992	367,110	3,859	179,632	6,267	49,245	110	1,265,215	1,124,500
Contribution From (To) Operations From Capital		(6,379)	6,379	(3,191)	3,191	(860)	860		
Transfer to Operations Fund									
FUND BALANCES, END OF YEAR	\$694,265	\$389,710	\$9,625	\$190,498	\$6,128	\$52,293	(925)	\$1,341,594	\$1,265,213

[1] This presentation is intended to generally represent the financial position of the CMS. Financial data is extracted from the March 30, 2011 Auditor's Report (Raymond Chabot Grant Thornton), page 7, excluding the respective accompanying notes from the audited statements.

ANNEX B



CMS BOARD OF DIRECTORS AND COMMITTEES

The CMS is managed by an Executive Committee which reports to the Board of Directors. The CMS operates by enlisting the participation of our members in an extensive committee structure. The following lists include all those who have served on the CMS board and committees throughout 2010. The CMS would like to acknowledge and thank the following individuals, without whom the work done by the CMS to promote the advancement, discovery, learning and application of mathematics would not be possible.

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The CMS office in Ottawa supports every aspect of CMS activity, from membership activities, subscriptions, meetings, events, and the work of the Board and Committees. The Publications group in Winnipeg handles the technical elements of our journal publication. The CMS would like to acknowledge and thank the following individuals for their hard work and dedication to the advancement, discovery, learning and application of mathematics.

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ANNEX F



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