

CMS NOTES de la SMC

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FROM THE PRESIDENT'S DESK



Jonathan Borwein

(voir la page 15 pour la version française)

A General Reprise.

I wrote in the September CMS Notes, that as President

"I have been forcibly but pleasantly reminded of how hard and effectively our Executive Office works and of the many activities the Society is engaged in.

I cannot overstate how well served we are by the voluntary effort of so many of our members, as with the recent review process. Whether we choose the comparison with other Canadian academic societies or with foreign mathematical societies, we take some considerable pleasure in both the

scale and level of function we provide. Through our annual meetings and prizes, active publication programme, sponsored high school competitions and Math Camps (there were eight this year (2000) in six provinces), the Endowment Fund Grants Competition which has just completed its second set of awards funding worthy mathematical projects ... and much else. *Information on the Competition can be found via Camel: www.cms.math.ca/Grants/.*

Central to last year's activities was the highly successful *Math 2000* joint summer meeting (www.cms.math.ca/CMS/Events/math2000/), held at McMaster University, certainly the largest 'made in Canada' conference yet run with more than 500 participants (of whom 497 registered) and a dozen varied plenary lectures. A profusion of other successful events made for an unparalleled week in Canadian Mathematics."

The list of participating societies and diverse talks at the meeting (and our other meetings) — from genomics, control theory, imaging, bio-statistics and encryption to logic, symplectic geometry, and history of mathematics — emphasizes our ability to play a key part in the life of the mathematical sciences generally.

(see PRESIDENT—page 9)

CMS NOTES NOTES DE LA SMC

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EDITORIAL



S. Swaminathan

When the probabilist Mark Kac was lecturing at Caltech, Richard Feynman is said to have interrupted him with the question “Is it true, as some of us physicists have been saying, that if mathematics had never been invented, the progress of physics would have been delayed by about a week?” Kac fielded the good-natured insult with the grace of a major-league shortstop scooping up a ground ball. “Absolutely true,” he replied instantly, “by exactly that week in which the Lord God created the universe.” Richard Feynman was surely joking and Mark Kac, a good friend of his, reacted in an equally joking fashion.

What we can learn from this incident is the role of humor in a lecture. Teaching mathematics has been long thought of as a most serious and sober undertaking. The instruction material of mathematical subjects is not noted for its entertainment value. In recent years, however, humorous training videos have made considerable inroads into traditional material of many other subjects. The use of humor as an attention-grabbing device is valuable in the classroom. There are those who argue that the comedy interferes with the message by possibly overshadowing it. This situation can be avoided by carefully integrating humor into the lessons. The value of humor lies in the fact that it is impossible to remember a ‘joke’ without also recalling the attendant lesson. Thus concept related hu-

mor is vital to the effectiveness of information acquisition and, perhaps, more importantly, to information retention.

Please send us a note about your thoughts on this matter.

On raconte que Richard Feynman aurait un jour interrompu le probabiliste Mark Kac, alors professeur à l'institut Caltech, en lui posant cette question : «Est-il vrai, comme le prétendent certains physiciens, que si les mathématiques n'avaient jamais été inventées, les progrès réalisés en physique auraient été retardés d'une bonne semaine?» Kac a relevé la taquinerie et a saisi la balle au bon avec la grâce d'un arrêt-court des ligues majeures : «C'est exact,» réplique-t-il sur-le-champ, «la semaine où Dieu créa l'univers.» Richard Feynman n'était pas sérieux, il va sans dire, et Mark Kac, un de ses bons copains, lui a répondu sur le même ton.

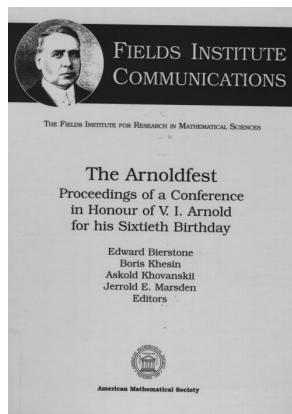
Cet épisode illustre bien le rôle de l'humour dans un cours. L'enseignement des mathématiques a longtemps été considéré comme une tâche sérieuse et sobre, et la matière n'est pas reconnue pour ses qualités divertissantes non plus. Au cours des dernières années, par contre, des vidéos éducatifs humoristiques ont fait une percée remarquable dans les programmes traditionnels de bien d'autres disciplines. Le recours à l'humour est un bon moyen de capter l'attention des étudiants. Certains croient plutôt que l'humour interfère avec le message et le relègue au second plan, ce que l'on peut toutefois éviter en faisant un usage réfléchi de l'humour en classe. Pourquoi l'humour est-il utile? Parce qu'il est impossible de se souvenir d'une farce sans aussi se souvenir du cours où on l'a entendue. Aussi dit-on que l'humour est crucial à un apprentissage efficace et, ce qui est encore plus important ici, à la mémorisation de l'information.

Qu'en pensez-vous? Écrivez-nous pour nous faire part de votre opinion!

Fields Festschrift for Vladimir Arnold's 60th Birthday

Book Review by Pierre Milman, University of Toronto

The Arnoldfest, Proceedings of a Conference in Honour of V.I. Arnold for his Sixtieth Birthday
edited by Edward Bierstone, Boris Khesin, Askold Khovanskii and Jerrold E. Marsden
Fields Institute Communications 24,
American Mathematical Society,
Providence, 1999
xvii + 555 pages



This book presents articles originating from invited talks at an exciting international conference held at The Fields Institute in Toronto celebrating the sixtieth birthday of the renowned mathematician, Vladimir Arnold. The highlight of the meeting was Arnold's own talks and the volume contains notes of his lectures including his insightful comments on Russian and Western mathematics and science. Arnold's lectures, as provocative as usual, stimulated some strong discussion. Related to this, and printed following Arnold's first lecture, is Jurgen Moser's "Recollections" article, concerning some of the history of KAM theory. The notes of Arnold's three lectures are followed, in alphabetical order, by articles by experts from all over the world, including several from "Arnold's school". The very broad spectrum of these papers reflects the scope of Arnold's interests.

The articles appearing in this volume illustrate diversity in mathematics stemming from a rather limited number of fundamental problems originally in the core of Arnold's research.

The volume includes several photos taken both during the Arnoldfest and the convocation ceremony, where Arnold was awarded an honorary degree, Doctor of Science, honoris causa, by the University of Toronto (three days before his birthday). This volume communicates esteem and warm affection for Arnold by his colleagues and former students.

Along with the titles of Arnold's lectures I include below his epigraphs because I feel they reveal Arnold's personality as it comes through in his lectures:

1. From Hilbert's Superposition Problem to Dynamical Systems.

"Some people, even though they study, but without enough zeal, and therefore live long" (Archbishop Gennady of Novgorod in a letter to Metropolitan Simon, ca 1500).

This lecture describes a personal passage of Arnold from the 13th Hilbert problem to dynamical systems.

2. Symplectization, Complexification and Mathematical Trinities.

"Augury is not algebra. The Human mind is not a prophet but a guesser. It can see the general scheme of things and draw from it deep conjectures, which are often borne out by time" (A.S. Pushkin).

This lecture is about an elusive mathematical dream that according to Arnold provided him with a transcendental guidance towards numerous interesting results.

3. Topological Problems in Wave Propagation Theory and Topological Economy Principle in Algebraic Geometry.

"From the most skillful definition, free as it might be of any inner contra-

dictions, one can never deduce a new fact" (M. Plank, Thermodynamics).

In this lecture Arnold defines, elaborates on and illustrates in numerous examples a general principle that "the simplest algebraic realizations are topologically as simple as possible".

All of Arnold's lectures are filled with [his perception of] the historical context, deep philosophical insights into mathematical discoveries and perhaps even of prophetic guesses of mechanisms by means of which these discoveries come about.

Finally, the enormous diversity of the mathematics covered by the papers that appear in the volume, most of which contain original results, is indicated by its table of contents starting after Arnold's third lecture:

- Geometry and control of three-wave interactions (Mark S. Alber, Gregory G. Luther, Jerrold E. Marsden, Jonathan Robbins);
- Standard basis along Samuel stratum, and implicit differentiation (Edward Bierstone and Pierre D. Milman);
- A global weighted version of Bezout's theorem (James Damon);
- Real Enriques surfaces without real points and Enriques-Einstein-Hitchin 4-manifolds (Alexander Degtyarev and Viatcheslav Kharlamov);
- On the index of a vector field at an isolated singularity (W. Ebeling and S. M. Gusein-Zade);
- The exponential map on D_μ^s (David G. Ebin and Gerard Misiolek);
- Zeldovich's neutron star and the prediction of magnetic froth (Michael H. Freedman);
- Arnold conjecture and Gromov-Witten invariant for general symplectic manifolds (Kenji Fukaya and Kaoru Ono);
- Multiplicity of a zero of an analytic function on a trajectory of a vector field (Andrei Gabrielov);
- Singularity theory and symplectic topology (Alexander B. Givental);

- On enumeration of meromorphic functions on the line (V. V. Goryunov and S. K. Lando);
- Pseudoholomorphic curves and dynamics (H. Hofer and E. Zehnder);
- Bifurcation of planar and spatial polycycles: Arnold's program and its development (Yu. S. Ilyashenko and V. Yu. Kaloshin);
- Singularity which has no M -smoothing (V. M. Kharlamov, S. Yu. Orevkov and E. I. Shustin);
- Symplectic geometry on moduli spaces of holomorphic bundles over complex surfaces (Boris Khesin and Alexei Rosly);
- Newton polyhedra, a new formula

for mixed volume, product of roots of a system of equations (A. Khovanskii);

- Interactions of Andronov-Hopf and Bogdanov-Takens bifurcations (William F. Langford and Kaijun Zhan);
- Solutions of the qKZB equation in tensor products of finite dimensional modules over the elliptic quantum Group $E_{\tau, \eta} sl_2$ (E. Mukhin and A. Varchenko);
- Schrodinger operators on graphs and symplectic geometry (S. P. Novikov);
- On the dominant Fourier modes in the series associated with separatrix splitting for an a-priori stable, three

degree-of-freedom Hamiltonian system (Michael Rudnev and Stephen Wiggins);

- Homology of i -connected graphs and invariants of knots, plane arrangements, etc. (V.A. Vassiliev);
- On Arnold's variational principles in fluid mechanics (V.A. Vladimirov and K. I. Ilin);
- On functions and curves defined by ordinary differential equations (Sergei Yakovenko);
- Global finiteness properties of analytic families and algebra of their Taylor coefficients (Y. Yomdin).

FROM THE INSTITUTES

Activities at the Fields Institute

February – August 2001

Please see the website for detailed information on these activities, and more: www.fields.utoronto.ca/programs

THEMATIC PROGRAMS:

January–June 2001: Symplectic topology, geometry and gauge theory.

Organizers: Michele Audin, Yakov Eliashberg, Helmut Hofer, Jacques Hurtubise, Lisa Jeffrey, Boris Khesin, François Lalonde, Eckhard Meinrenken.

For more information, write – symplectic@fields.utoronto.ca.
March 26 – April 7: Symplectic and contact topology, a Joint Fields/CRM Workshop.

Organizers: S. Donaldson, B. Dubrovin, Y. Eliashberg, A. Givental, H. Hofer, B. Khesin and F. Lalonde.

June 4 – 13: Hamiltonian group actions and quantization workshop.

Organizers: M. Audin, J. Hurtubise, L. Jeffrey and E. Meinrenken.

January–April: Graduate Courses

- Symplectic geometry and Hamiltonian group actions: L. Jeffrey.
- Infinite dimensional lie groups and gauge theory: B. Khesin.
- Moduli spaces of flat connections: E. Meinrenken.
- Introduction to symplectic field theory: Y. Eliashberg.
- August 2001–02: Numerical and computational challenges in science and engineering.

Organizers: U. Ascher, H. Brunner, T. Chan, T. Coleman, W. Enright, J. Flaherty, P. Forsyth, M. Fortin, A. George, K. Jackson, B. Langford, B. Russell, S. Shen.

For information: numerical@fields.utoronto.ca

July 29 – August 3: International Conference on Scientific Computation and Differential Equations (in Vancouver).

GENERAL SCIENTIFIC ACTIVITIES:

April 16–21: Partial differential equations in mathematical physics.

Organizers: W. Craig and C. Sulem.

May 14–1: Summer school in quantum information processing.

Organizers: R. Cleve, D. Lidar, M. Mosca.

June 22–23: Workshop in honour of Allan Borodin, “Borodin at 60.”

Organizer: S. Cook.

July 23–29: Arithmetic, geometry and physics and Calabi-Yau varieties and mirror symmetry.

Organizers: N. Yui and J. Lewis.

August 16–17: Eighth annual workshop on selected areas in cryptography (SAC2001).

Organizers: S. Vaudenay and A. Youssef.

August 20–25: Problems and perspectives on the calculus of variations: physics, economics, and geometry.

Organizer: R. McCann.

AWARDS / PRIX

2000 Coxeter-James Lecturer

The 23rd Coxeter-James Lecture was presented in Vancouver, British Columbia at the December Meeting of the Society by Damien Roy of the University of Ottawa



Damien Roy has made outstanding contributions to the study of transcendence theory and Diophantine approximation. For instance, with Jeff Thunder he proved a fundamental refinement of Siegel's Lemma. They showed that if S is a system of homogeneous linear equations in n variables with coefficients in a finite extension of the rational numbers then there is a basis for the set of solutions which is small in the sense that the product of the heights of the basis elements is bounded from above in terms of the height of S . Their result was an essential ingredient in the recent proof of Evertse and Schickewei of a quantitative version of Schmidt's Subspace Theorem.

In 1980 Sansuc proposed the problem of determining, for any given number field k , the smallest positive integer m for which there exists a finitely generated subgroup of rank m of the non-zero elements of k having a dense image in $(R \otimes_Q k)^\times$ under the canonical embedding. In 1992 Roy completely resolved the problem by proving that $m - 1$ is equal to the number of Archimedean places of k .

Recently Roy established a new interpolation theorem for functions of

two complex variables and used that to recast Schanuel's conjecture in terms of an algebraic criterion for polynomials in two variables with integer coefficients to be small at a specified set of points. He has also introduced new techniques into the study of the algebraic independence of numbers with Laurent and with Waldschmidt.

Damien Roy a contribué de façon exceptionnelle à l'étude de la transcendance et de l'approximation diophantienne. En collaboration avec Jeff Thunder, il a notamment démontré un raffinement fondamental du lemme de Siegel. Ces deux chercheurs ont établi que si S est un système d'équations linéaires homogènes à n variables ayant des coefficients à valeurs dans une extension finie des rationnels, alors il existe une base de l'espace des solutions qui est petite, en ce sens que le produit des hauteurs des éléments de la base est borné supérieurement en termes de la hauteur de S . Le résultat ainsi obtenu est un élément clé de la preuve obtenue récemment par Evertse et Schickewei d'une version quantitative du théorème du sous-espace de Schmidt.

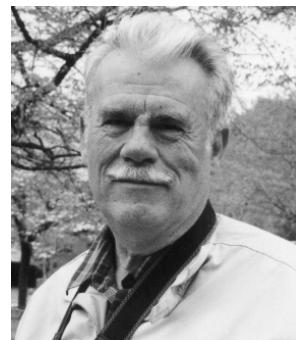
En 1980, Sansuc a posé le problème de la détermination, étant donné un corps de nombres k , du plus petit entier positif m pour lequel il existe un sous-groupe de rang m d'éléments non-nuls de k dont l'image par le plongement canonique dans $(R \otimes_Q k)^\times$ soit dense. En 1992, Roy a entièrement résolu le problème en prouvant que m est égal au nombre de places archimédiennes de k .

Récemment, Roy a formulé un nouveau théorème d'interpolation pour les fonctions de deux variables complexes et s'en est servi pour reformuler la conjecture de Schanuel en termes de critères algébriques pour polynômes à deux variables à coefficients entiers qui soient petits en un certain nombre de points. Il a de plus introduit de nouvelles techniques dans l'étude

de l'indépendance algébrique des nombres en collaboration avec Laurent et Waldschmidt.

2000 CMS Distinguished Service Award

The 2000 CMS Distinguished Service Award was presented in Vancouver, British Columbia at the December meeting of the Society to Arthur Sherk of University of Toronto.



Arthur Sherk has been a member of the Canadian Mathematical Society since 1955. Over the past forty five years, he has served the Society in a number of capacities. He served as Managing Editor for each of the Society's research journals at a formative period in their development. He was Managing Editor of the Canadian Mathematical Bulletin from 1963 to 1967 and of the Canadian Journal of Mathematics from 1978 to 1983. He has been the Society's Treasurer since 1993 and is now in his third term.

During his academic career, Dr. Sherk served for five years as the Assistant Dean for Graduate Studies (University of Toronto) and for three years on the Governing Council. In 1975, he was cross-appointed with University College and served the college in a variety of roles, notably as Vice-Principal (1985-90) and as Acting Principal (1992-1993).

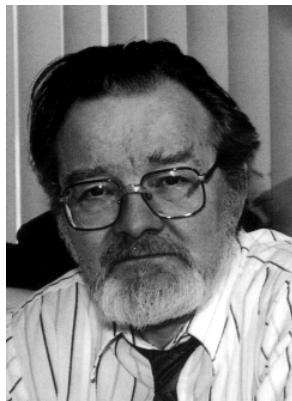
Arthur Sherk est membre de la Société mathématique du Canada depuis 1955 et y a occupé plusieurs postes au cours des quarante dernières années. Il

a notamment été rédacteur-gérant de chacune des revues scientifiques de la Société, à une étape charnière de leur développement : d'abord du Bulletin canadien de mathématiques de 1963 à 1967, puis du Journal canadien de mathématiques de 1978 à 1983. Il est trésorier de la SMC depuis 1993 et en est à son troisième mandat à ce poste.

Sa carrière d'universitaire a mené le professeur Sherk à occuper le poste de doyen associé responsable des études supérieures (Université de Toronto) pendant cinq ans et à siéger trois années durant au bureau des gouverneurs. En 1975, dans le cadre d'une affectation interétablissements, il a commencé à travailler au University College, où il a joué divers rôles, notamment à titre de vice-recteur (1985-1990) et de recteur par intérim (1992-1993).

2000 Prix Adrien-Pouliot

The sixth Adrien Pouliot Award was given to Bernard Courteau of the Université de Sherbrooke at the meeting of the Canadian Mathematical Society last December in Vancouver. The Adrien Pouliot Award recognizes significant and sustained contributions to mathematics education in Canada.



Professor Courteau is professor emeritus at the University of Sherbrooke, Québec, and has been a commanding figure in Quebec in fostering an interest and facility in mathematics among teachers, pupils and members of the general public. In 1991-

1992 he created the mathematical module for the traveling exhibition, "EbulliScience", that attracted more than 400 000 visitors and, for his work in the popularization of mathematics he was elected as honorary president of "la Quinzaine des sciences de l'Estrie".

A major thrust of Professor Courteau's activities has been to unite in a common cause teachers of mathematics at all levels. He has been actively involved in the key organizations in Quebec concerned with mathematical education, including serving on the council of l'Association canadienne-française pour l'avancement des sciences (ACFAS) (1996-1998) and the Executive Committee of the Conseil pédagogique interdisciplinaire du Québec (CPIQ) (1995-1997). He was president of l'Association mathématique du Québec (AMQ) from 1993 until 2000. Professor Courteau is praised for his prodigious energy, progressiveness and passion for mathematics.

Professeur émérite à l'Université de Sherbrooke (Québec), Bernard Courteau est l'une des figures dominantes de la profession au Québec de par son aptitude à susciter l'intérêt des enseignants, des élèves et du grand public pour les mathématiques. En 1991-1992, il a créé le module mathématique de l'exposition itinérante «ÉbulliScience», qui a attiré plus de 400 000 visiteurs. Pour sa contribution à la vulgarisation mathématique, il a en outre été élu président d'honneur de la Quinzaine des sciences de l'Estrie.

Le professeur Courteau consacre une grande part de son temps à rallier à une cause commune les enseignants de mathématiques de tous les niveaux. Il a joué et joue encore un rôle actif dans les organismes québécois voués à l'enseignement des mathématiques, notamment en tant que membre du Conseil de l'Association canadienne-française pour l'avancement des sciences (ACFAS) (1996-1998) et du Comité exécutif du Conseil pédagogique interdisciplinaire du Québec

(CPIQ) (1995-1997). Il a de plus été président de l'Association mathématique du Québec (AMQ) de 1993 à 2000. Sa prodigieuse énergie, son attitude progressiste et sa passion des mathématiques lui ont valu maints éloges.

G de B Robinson Award

The 4th G de B Robinson Award was presented in Vancouver at the December meeting of the Society to Ravi Vakil of Massachusetts Institute of Technology. This award is for an outstanding paper in one of the Society's publications and is named in honour of one of the founding editors of the Canadian Journal of Mathematics.



Ravi Vakil received his B.Sc. from the University of Toronto in 1992, and his Ph.D. from Harvard University in 1997. He was an Instructor at Princeton University from 1997-98, and has been a C.L.E. Moore Instructor at M.I.T. since then. Ravi's research interest is algebraic geometry (especially moduli spaces), with connections to other fields, including physics, number theory, and combinatorics.

Dr. Vakil wins the award for his paper "Characteristic numbers of quartic plane curves", CJM 51, no. 5, pp.1089-1120 (1999). This exceptional paper uses a construction of Kontsevich to make the last big step in the solution of a 125 year old problem of Zeuthen in algebraic geometry.

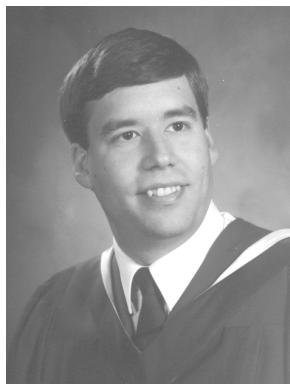
Ravi Vakil a obtenu son B.Sc. de l'Université de Toronto en 1992 et son

doctorat de Harvard en 1997. Il a enseigné à Princeton en 1997-1998 et il est depuis «C.L.E. Moore Instructor» au M.I.T. Ravi se consacre surtout à la géométrie algébrique (notamment aux espaces de modules) en relation avec d'autres domaines, dont la physique, la théorie des nombres et la combinatoire.

Le professeur Vakil a reçu le prix pour son article intitulé «Characteristic numbers of quartic plane curves», publié dans le JCM, vol. 51, no. 5, pages 1089-1120 (1999). Dans cet article exceptionnel, il se sert d'une construction de Kontsevich pour franchir la dernière grande étape.

4th CMS Doctoral Prize

The fourth Doctoral Prize Lecture was given by Stephen Astels at the meeting of the Society in December 2000 in British Columbia. This prize recognizes outstanding performance by a doctoral student graduating from a Canadian university during the preceding year.



In his thesis Dr. Astels studies properties of Cantor sets and their application to problems of Diophantine approximation. The thickness of a Cantor set is a measure of the size of the set and, according to a result of Newhouse from 1970, the sum of two Cantor sets is an interval if the product of their thicknesses is at least one. Steve has been able to generalize Newhouse's theorem to the sum of any number of Cantor sets. He has also established

a lower bound for the thickness of the sum of two Cantor sets in terms of the thickness of each set and proved that, in general, the lower bound is best possible. Such a result had been sought for at least 30 years.

In a famous paper from 1947 Marshall Hall proved that every real number can be expressed as a sum of two badly approximable numbers. In particular, he showed that every real number can be expressed as a sum of two numbers which, when expanded as continued fractions, have partial quotients at most 4. Let us denote this set of such numbers by $F(4)$ and define $F(m)$ correspondingly for each positive integer m . In 1973 Divis showed that one could not replace 4 by 3 in Hall's result. Two years later Hlavka generalized the work of Divis and Hall to study $F(m) + F(n)$ where m and n are positive integers. He proved that

$$F(m) + F(n) = R, 1 \quad (1)$$

when (m, n) is $(2, 7)$ or $(3, 4)$ and that

$$F(m) + F(n) \neq R, 2 \quad (2)$$

when (m, n) is $(2, 4)$. This left open the cases $(2, 5)$ and $(2, 6)$ which Hlavka conjectured satisfied (2). Progress was blocked for 25 years until Steve proved that (1) holds with $(m, n) = (2, 5)$, thereby disproving the conjecture of Hlavka and resolving the problem.

Let B_1 and B_2 be sets of positive integers. Steve also established a general criterion for determining when every real number can be represented as a sum of two real numbers with one of the numbers having partial quotients from B_1 and the other having them from B_2 . A key element in the proof of these results is his work on the thickness of Cantor sets.

La thèse d' Astels porte sur les propriétés des ensembles de Cantor et leur application aux problèmes d'approximation diophantienne.

L'épaisseur d'un ensemble de Cantor est une mesure de la taille de l'ensemble. Selon un résultat obtenu par Newhouse en 1970, la somme de deux ensembles de Cantor donne une intervalle si le produit de leur épaisseur est au moins égal à un. Steve est arrivé à généraliser le théorème de Newhouse à la somme d'un nombre arbitraire d'ensembles de Cantor. Il a aussi établi une limite inférieure pour l'épaisseur de la somme de deux ensembles de Cantor en termes de l'épaisseur de chaque ensemble, et a prouvé que la limite inférieure est la meilleure option possible en général. On attendait un tel résultat depuis plus d'une trentaine d'années.

Dans un article célèbre publié en 1947, Marshall Hall a prouvé qu'il était possible d'exprimer tout nombre réel comme somme de deux nombres difficiles à approximer. En particulier, il a démontré que tout nombre réel s'exprime en tant que somme de deux nombres qui, une fois développés en fractions continues, ont des quotients partiels qui égalent au plus 4. On note cet ensemble par $F(4)$ et on définit $F(m)$ pour chaque nombre entier positif m de manière analogue. En 1973, Divis a montré qu'il était impossible de remplacer 4 par 3 dans le résultat obtenu par Hall. Deux ans plus tard, Hlavka a généralisé le travail de Divis et de Hall au cas de l'ensemble $F(m) + F(n)$, où m et n sont des entiers positifs. Il a prouvé que

$$F(m) + F(n) = R, 1 \quad (3)$$

lorsque (m, n) est $(2, 7)$ ou $(3, 4)$ et que

$$F(m) + F(n) \neq R, 2 \quad (4)$$

lorsque (m, n) est $(2, 4)$. Il restait à régler les cas de $(2, 5)$ et de $(2, 6)$, que Hlavka avait posé comme conjecture qu'il satisfaisait (4). Aucun progrès n'a été accompli sur cette question pendant 25 ans, jusqu'à ce qu'Astels prouve que (3) est vrai avec $(m, n) = (2, 5)$, ce

qui lui a permis de réfuter la conjecture de Hlavka et de résoudre le problème. Soient B_1 et B_2 des ensembles d'entiers positifs. Astels a établi un critère général permettant de déter-

miner dans quels cas il est possible de représenter chaque nombre réel comme la somme de deux nombres réels dont l'un a des quotients partiels dans B_1 et l'autre, dans B_2 . Ses travaux sur

l'épaisseur des ensembles de Cantor constituent un élément clé de la preuve de ces résultats.

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Stochastic Processes, Physics and Geometry: New Interplays. II
A Volume in Honor of Sergio Albeverio

NEW! Volume 28

Stochastic Processes, Physics and Geometry: New Interplays. I
A Volume in Honor of Sergio Albeverio

Fritz Gesztesy, University of Missouri, Columbia,
Helge Holden, Norwegian University of Science and
Technology, Trondheim, Jürgen Jost, Max Planck Institut für
Mathematik, Leipzig, Germany, Sylvie Paycha, Université
Blaise Pascal, Aubière, France, Michael Röckner, Universität
Bielefeld, Germany, and Sergio Scarlatti, Università G.
D'Annunzio, Pescara, Italy, Editors

These volumes present state-of-the-art research currently unfolding at the interface between mathematics and physics. Included are select articles from the international conference held in Leipzig (Germany) in honor of Sergio Albeverio's sixtieth birthday. The theme of the conference, "Infinite Dimensional (Stochastic) Analysis and Quantum Physics", was chosen to reflect Albeverio's wide-ranging scientific interests. The articles in these books reflect that broad range of interests and provide a detailed overview highlighting the deep interplay between stochastic processes, mathematical physics, and geometry.

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Luis G. Gorostiza, Centro de Investigación y de Estudios Avanzados, Mexico City, Mexico, and B. Gail Ivanoff, University of Ottawa, ON, Canada, Editors

This book presents the refereed proceedings of the International Conference on Stochastic Models held in Ottawa (ON, Canada) in honor of Professor Donald A. Dawson. Contributions to the volume were written by students and colleagues of Professor Dawson, many of whom are eminent researchers in their own right.

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(PRESIDENT—continued from page 1)

The 2000 CMS Winter Meeting

This varied and stimulating meeting (www.cms.math.ca/Events/winter00/) formed a fitting conclusion to our many activities in World Math Year 2000. It was hosted by the University of British Columbia which has a long and distinguished record of hosting CMS and other mathematical conferences. As with all our activities, our meetings rely on a great deal of local effort for which I express the Society's gratitude. The Meeting Director, Dale Rolfsen, the Organizers, Afton Cayford and John Fournier, together with helpers from the local department, deserve our especial thanks. They ran an extremely efficient and enjoyable meeting.

The Society's thanks also go to the many session organizers who were responsible for the truly interesting and diverse program: Peter Russell (Algebraic Geometry, McGill University), Peter Borwein, (Classical and Computational Analysis, Simon Fraser University), Abel Cadenillas (Financial Mathematics, University of Alberta), Len Berggren (History of Mathematics, Simon Fraser University), George Bluman and Klaus Hoechsmann (Mathematical Education, University of British Columbia), Rajiv Gupta and Nike Vatsal (Number Theory, University of British Columbia), Michael Lamoureux (University of Calgary) and Ian Putnam (Operator Algebras, University of Victoria), Akbar Rhemtulla (Ordered Groups, University of Alberta), Richard Froese, Nassif Ghoussoub and Izabella Laba (Partial Differential Equations, University of British Columbia), Martin Barlow (University of British Columbia), Rick Durrett (Cornell University), Claudia Neuhauser (University of Minnesota), and Edwin Perkins (Probability and its Applications University of British Columbia), Kee Lam, (Contributed Papers, University of British Columbia).

The public lecture, cosponsored by the Vancouver Institute (a 75 year old Vancouver institution), was delivered by Roger Howe (Yale) and the Royal Society of Canada and PIMS similarly cosponsored Peter Sarnak's (Princeton University) excellent plenary lecture. For their sponsorship I repeat the society's gratitude. I wish also to acknowledge the generous support of the National Programme Committee of the three Canadian Research Institutes (Fields, CRM and PIMS), the Pacific Institute for the Mathematical Sciences, the Mathematics of Information Technology and Complex Systems Network (MITACS NCE), the Centre for Experimental and Constructive Mathematics, the Deans of Science at UBC, Simon Fraser and University of Alberta the Dean of Graduate Studies at UBC, and the Departments of Mathematics at UBC, Simon Fraser and Calgary. I should also thank Springer-Verlag, our publishing partners, who sponsored our opening reception.

This meeting also celebrated the varied accomplishments of five of our colleagues. Two fine prize lectures were presented: the CMS Coxeter-James Lecture by Damien Roy,

University of Ottawa, and the CMS Doctoral Prize Lecture given by Stephen Astels, a former student of Cam Stewart's in Waterloo. The Adrien Pouliot Award, in recognition of contributions to mathematical education and popularization, went to Bernard Courteau, Université de Sherbrooke. The CMS Distinguished Service Award was presented to Arthur Sherk, University of Toronto, and Ravi Vakil from MIT received the G. de B. Robinson Award, for an outstanding paper published in the Canadian Journal of Mathematics in 1998 or 1999. These prizes were all presented at a well attended and very enjoyable banquet. In addition Ravi Vakil gave a special lecture in the session arranged by the CMS Student Committee, after which he met with students in a tutorial session. We hope to see events of this sort enshrined in our meetings.

The meeting location at the Hotel Vancouver, in the heart of the city, proved agreeable both to those revisiting Vancouver and to any conferees experiencing its pleasures for the first time. I do admit that Vancouver was chillier than usual. In addition to many regular social events (a delegates luncheon, receptions and banquet (the food, in my opinion was much superior to most hotel fare) we were offered Hypatia's Street Theatre.

Recent specific activities.

Let me highlight some of my other recent activities, for the most part avoiding things Graham Wright has recently described in the *Notes*.

Olympiad and Putnam The six students who represented Canada in Seoul, South Korea from July 16-25 collected a gold, two silver, and one bronze medals and finished 17th out of 82 competing nations. David Arthur from Upper Canada College, the gold medalist, was 7th out of 461 contestants. I note, ruefully, that the public lecture at our recent winter meeting may have helped explain why China not Canada came first.

Similarly, let me again record our spectacular national performance on the 1999 *Putnam Competition* in which three of the top ten teams and three of the top six individuals (7 of 25) were Canadian. A recent MAA Monthly notes that in the past decade there have been 8 Canadian Putnam Fellows and only two from US public universities. We await the 2000 results eagerly.

Perhaps not surprisingly former Olympiad team members did very well. At the SFU send off I emphasized, for the media and administrators present, what a strong endorsement of Canadian undergraduate mathematics education the entire suite of results represented. When Graham Wright and Tom Salisbury attended the second annual Chairs Meeting on November 17th, they raised the general issue of how best to attract publicity for Canadian departments. The CMS wishes to broadly advertise success, such as in the Putnam, without stealing the lime-light from individual departments.

Publications and Electronic Information. Our publi-

cations continue to do well in an uncertain and increasingly digital world. All the Society's journals are now "fully Online". They will not stay timely for long¹ and we have to make very significant decisions, *this year*, such as:

- Whether to move forward with a search for a *Director of Electronic Services and Products*? If so, as an academic volunteer – perhaps sitting on the Executive Committee – or as a paid employee?
- Whether to engage in "Research and Development" for our publishing and information service? Or should we seek to out-source more, with the AMS or NRC press as our publisher or perhaps only electronic distributor?
- How best to integrate our electronic and paper publishing?
- Whether, correspondingly to scale up or down the \TeX office. Should we add an associate \TeX Editor, and actively look for additional business while moving the Digital Editor into the same portfolio? Should we do this in a centralized or distributed fashion? In a department or in conjunction with one of the Institutes?

An ad-hoc subcommittee was struck in October (chaired by Tom Salisbury) to consider these matters further. We shall return to these questions and others throughout 2001 and I will elaborate our decisions in these Notes. I record that a small technological step was taken when, on November 30, 2000, the Executive held a very productive two hour phone meeting for the first time – as a precursor to a much briefer than usual meeting at the CMS Winter Meeting. We shall try to do this more frequently.

Co-publishing Ventures. In this context, we are exploring ways of assisting or collaborating with the new European Mathematics Press with the process of co-development, producing, of hosting and distributing their electronic journals. I have also been engaged in various discussions with the Euclid project (based at Cornell, it has significant Sloane foundation funding to assist mathematics journals in going digital), and with CISTI-NRC Press (both as a member of CISTI's Advisory Board and as CMS President) about prospective joint ventures.

Relatedly, Jamie Mingo represented the CMS at a meeting in Ottawa on October 4th about the NRC/Industry Canada proposed not-for-profit publishing portal *cyjournal.org*. We are also concerned about NRC's ability to give free access in Canada to NRC journals electronically through their inclusion in the federal government's Document Depository Program. The possibility of shared advertising of publications with NRC press, has also been raised.

¹A CMS example is at <http://dev.camel.math.ca:8080/lookup/index.php>. Compare it to www.ams.org/mrlookup and www.ams.org/mstrack. A proposal from the Digital Editor is lodged at www.cecm.sfu.ca/~loki/Docs/CMS/Proposal.html, doc, txt.

CMS Books. The CMS has now completed the move of its *CMS Books in Mathematics* series to Springer, New York, from Wiley and Sons, and the first ten volumes are now published or in press. There were four titles on sale (and meaningful sales figures) at the Winter Meeting where Springer hosted a reception. Reviews will, I am sure, continue to appear in these pages.

CMS Tracts. In June 2000, the CMS launched a parallel series of shorter books *CMS Tracts in Mathematics* to be published by the American Mathematical Society, edited by Ken Davidson and Cam Stewart.

Each of these series hopes to publish broadly and we should directly invite members of other Canadian mathematical science societies to consider publishing their work through these vehicles. Style files and guides to authors are nearing completion in the \TeX office. Early adherence to these guidelines by authors dramatically reduces the pain of producing a book for the author and publisher.

Combined Membership List. The Board in December agreed to having our membership list integrated with or appended to the *Combined Membership List* of the AMS/MAA/SIAM. This could start in 2002 if all technical issues are resolved. We shall of course maintain our own CMS list. I note in passing, that as CMS President, I sit as an observer on AMS Council, and so am invited to a number of meetings, but in my judgement attendance at the Combined Meetings in January only is usually adequate.

Women in Math. At the Winter Meeting, we were able to release the *Women in Mathematics* poster. Cosponsored by Waterloo Maple, the poster celebrates the achievements of Canadian women mathematicians. It will be mailed to all Canadian high schools.

Advancement of Mathematics. One of the taskforce recommendations was to establish a Promotion of Mathematics Committee. We are now thinking of building a *Committee for the Advancement of Mathematics*, with fund raising overseen by a subcommittee of this new committee. In this setting, CMS has just received \$68,100 over three years from NSERC's new *Promotion of Science* fund to assist with its outreach activities.

National Science Organization. The Secretary of State for Science convened a two day meeting in Aylmer, Quebec (Oct 4-5, 2000) to discuss the desirability of establishing a free standing Canadian Academy. Keith Taylor, who represented the CMS at this meeting, and I jointly responded to an online questionnaire prior to the meeting. The initiative seems serious and fairly advanced. Given the recent election results we might well see the emergence of such an organization, and of significant funding for a more vigorous Royal Society of Canada.

Relations with Other Societies

As I indicated in the article I wrote for CORS in their November Newsletter (now part of the regular duties of the CMS President), I would personally welcome further opportunities for more joint activities with the Statistics Society, CAIMS, CORS and others. This also applies to expanding our relations with the MAA, SIAM, EMS, not to mention making further inroads in Quebec. For example we have just signed a reciprocity agreement with the European Math Society, along the lines of the one with the AMS and several other societies. Similarly we are exploring a joint CMS/MAA/SIAM summer meeting in 2005.

This leads to the central question

"Given the development of MITACS and the Institutes, what is the most appropriate role for the CMS?"

For example, how should we respond to, or support, the proposal for a national conference centre at Kananaskis?

IMU – CEIC

The elaborate process of preparing for the next IMU Congress in Beijing in 2002 is underway and we are hoping to arrange a Canadian reception at the Congress, perhaps at the Embassy. This will be jointly sponsored by MITACS

and the three institutes.

More substantitively, I sit, as VP, on the IMU's *Committee on Electronic Information and Communication*. The CEIC (www.math.ceic.ca) continues to make slow, but hopefully steady, progress on its charter, on issues of metadata, digital publishing, copyright and intellectual property. We met in Vienna, from October 5-7. The CMS cosponsored the previous meeting in Berkeley in December 1999.

In addition to writing a detailed report for the IMU Executive in Beijing, the principal goal is the development of a world-wide *MathNet* that allows one to obtain information about mathematicians and mathematics. The two primary steps are the installation of "secondary home pages" (institutional, departmental, and individual) and the integration of preprint services. We are now looking for about 40 "beta-testers" and I hope the CMS and the Vice Presidents' Departments will agree to participate by installing these secondary homepages. In principle this is easy. I shall also be asking the three Institutes, in addition, to begin to prepare their preprints with the necessary metadata to have them easily found by the system.

UPCOMING CONFERENCES

Second Lethbridge Workshop on Designs, Codes, Cryptography and Graph Theory

July 9 – 14, 2001 at University of Lethbridge, Lethbridge, Alberta.

The workshop builds on the success of the Workshop on Coding Theory, Cryptography and Computer Security held at the University of Lethbridge, August 3 – 7, 1998. Sponsors are the Pacific Institute for the Mathematical Sciences, MITACS, the University of Lethbridge and VeriSign Inc. The workshop web site is <http://www.cs.uleth.ca/dccg>

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- * R. Craigen, University of Manitoba
- * W. deLauney, Institute for Defense Analysis, San Diego.
- * G.B. Khosrovshahi, IPM and Tehran University
- * D. Kreher, Michigan Technological University
- * A. Ling, Michigan Technological University
- * M. Yamada, Kanazawa University

We anticipate a combination of instructional lectures and research sessions. Participants who wish to contribute 20-30 minute talks are invited to submit an abstract of at most 300 words. The abstracts should preferably be written in LaTeX or TeX and should be sent to hadi@cs.uleth.ca. Some financial support is available for graduate students and postdocs.

ORGANIZING COMMITTEE

Wolf Holzmann, University of Lethbridge; Hadi Kharaghani, University of Lethbridge; Jim Liu, University of Lethbridge

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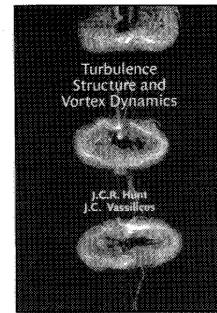
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Langlands Receives Grande Médaille d'Or

from Académie des Sciences announcements

Robert Langlands has received the Grande Médaille d'Or (Gold Medal) of the Académie des Sciences de Paris. This is the highest honor presented by the academy.

Langlands was born in Canada in 1936. He is a professor of mathematics at the Institute for Advanced Study in Princeton. His main contribution to mathematics is a program that predicts hidden relations between algebraic geometry and the theory of representations of Lie groups.

The law of quadratic reciprocity was proven in 1801 by Gauss in *Disquisitiones Arithmeticae*, though the statement was already known to Euler and Legendre. Given prime numbers p and q , the law asserts a symmetry between p and q with regard to the solubility of the equation $x^2 = p \pmod{q}$. It took more than a century to understand conceptually the role of the law of quadratic reciprocity in class field theory, which allows one to calculate, starting with the ideal classes, the Galois group of the maximal abelian extension of a number field. The Langlands program is a surprising generalization of class field theory that covers arbitrary Galois groups. The ideal classes are replaced by adelic Lie groups, and the reciprocity law becomes a correspondence between representations of Galois groups (which occur in the definition of Artin L-functions) and certain infinite-dimensional representations

of adelic Lie groups. Langlands's conjectures, most of which are still unproved, translate large parts of algebraic geometry into the language of representation theory. They thus provide a dictionary in which translation permits, in principle, the resolution of questions that would otherwise be unsolvable, such as the Artin conjecture about the holomorphicity of L-functions. The efforts of many mathematicians, including Langlands himself, have led to proofs of some parts of the program. For example, the progress made by Andrew Wiles permitted him to complete the proof of Fermat's Last Theorem.

Each year, the Grande Médaille d'Or is awarded alternately for decisive contributions to a discipline in one of the academy's two divisions. The originality of the work is taken as much into account as is the work's international influence and the impact it has had in creating a recognizable school of thought and research. The work must be in an important area of basic research and must have shed new light and brought new understanding to the discipline involved. In the year 2000 the recipient was chosen from disciplines belonging to the Division of Mathematical and Physical Sciences and Their Applications.

Department Chairs Meet

by George Bluman and Herb Gaskill

The second annual meeting of Chairs of Mathematics Departments in Canada was held November 18-19, 2000 at the Fields Institute in Toronto. The agenda included invited overview presentations from Alberta, Memorial and Queen's. The following topics were considered: research support and encouragement for faculty, how to maximise the hiring of mathematicians to Canada Research Chairs, experiences with uses of computer technology in courses, recruitment of female faculty, co-op programs in Math, preparation of teachers, how to deal with teaching difficulties, CMS initiatives and relationships, research institutes/MITACS. There was a reception sponsored by CMS. It was decided to hold the 2001 meeting in Ottawa in order to help lobby for support for Mathematics in the coming NSERC re-allocation. Various topics were considered for inclusion in the 2001 program. It was agreed to exchange lists of graduating PhD students as well as current PDF's in departments and to consider inviting a few US chairs to the 2001 meeting. It was suggested that any collection of data, including the lists of graduating PhD students and current PDF's, and its dissemination be handled by CMS as an ongoing activity. The facilitators for the 2000 meeting were George Bluman and Herb Gaskill and they have agreed to be among the three facilitators for the 2001 meeting.

The list of participants at this year's meeting included Ejaz Ahmed/Regina, Brian Allen/Guelph, Tom Archibald/Acadia, Harold Atkinson/Windsor, Len Berggren/SFU, Mik Bickis/Saskatchewan, Ted Bisztriczky/Calgary, George Bluman/UBC, Ragnar-Olaf Buchweitz/Toronto, Jean-Pierre Carmichael/Laval, Robert Erdahl/Queen's, Reine Gagnon/Sherbrooke, Herb Gaskill/Memorial, Nassif Ghoussoub/PIMS, Kohur GowriSankaran/McGill, Arvind Gupta/MITACS, Bradd Hart/Fields Institute, Joel Hillel/Concordia, Jacques Hurtubise/CRM, Rick Jardine/Western Ontario, Eric Muller/Brock, Richard Nowakowski/Dalhousie, Akbar Rhemtulla/Alberta, Tom Salisbury/York, Paul Sullivan/Western Ontario, David Vaughan/Wilfrid Laurier, Grant Woods/Manitoba and Graham Wright/CMS.

EDUCATION NOTES

Ed Barbeau, Column Editor

Welcome to a Co–Editor

I would like to introduce the Co–Editor of the Education Notes, Professor Harry White, of the Université du Québec à Trois-Rivières, who will be contributing and soliciting articles in French. In this way, we will be able to gain more complete coverage of developments across the whole country and have a column which will be equally congenial to all of our members. I am very grateful for his partnership.

The nuts and bolts of doing mathematics

This year, I am teaching first year calculus to engineering science students. This class includes many of the most capable mathematics students that apply to the University of Toronto, and, sure enough, they seem on the whole to be very alert and willing to understand mathematics rather than just memorize it.

However, many of them are having extraordinary difficulty in negotiating what seems to me to be some very basic mathematical processes. Let me give some examples. After defining the absolute value of x to be x when $x \geq 0$ and $-x$ when $x < 0$, I pointed out to the students that in manipulating absolute values, it is useful to use the following result: *Let $c > 0$. Then $|x| \leq c$ if and only if $-c \leq x \leq c$.* After mentioning the geometric import of this, I decided that it would be useful to prove this as an example of a mathematical argument. While the details are not onerous, there are actually several important issues involved in the argument, to wit the double implication, the need to work from a definition, and the handling of separate cases ($x \geq 0$ and $x < 0$). Each of these could, and did, cause difficulties with the students, who seemed to be unable to get a clear sense of the direction of the argument.

The second example is having the students establish that the derivative of an even function is odd, again a matter of understanding and using the definition (and being able to distinguish the derivative of f evaluated at $-x$ from the derivative of the function $x \rightarrow f(-x)$). The final example was a disastrous question on a quiz. The students were given a list of functions and asked to decide whether they had some property such as “the function is bounded above” or “the function assumes its minimum value on its domain of definition”. All of these require the student to deal in a precise, systematic and spare way with a mathematical situation. Many students faltered because they sowed additional confusion within themselves by introducing into the situation factors that were simply irrelevant.

The *Principles and Standards for School Mathematics* published by the National Council of Teachers of Mathematics, along with a number of provincial curricula, are trying to bring in reforms in mathematical education which are designed to engage students in mathematics through problems and investigations, and so help them become more autonomous learners. However, there are some very fundamental issues that are either not raised or are taken for granted. If one looks at the *Communications* and *Reasoning* standards (especially on pages 56, 342, 60, 348), it seems to be taken for granted that students will have at their command a reasonable level of exposition, will have basic reasoning skills that only need some occasion for their use, and will be able to retain and use mathematical terminology and needed results.

This will be true for some students, but for most students, these issues have to be explicitly addressed, and the earlier the better. Let me be a bit more specific.

(1) Students need to use mathematical terminology in a precise and consistent way. Not only does mathematical power depend in part on this, but the precision of mathematics can be seen as a source of solidity for the learner. Teachers need to model this in their own practice, and insist on it from their students.

(2) Students need to commit to memory certain definitions and results, and teachers need to guide them as to how this can be done most securely and efficiently. Every mathematical procedure has a range of situations for which it is applicable, and its proper use requires of the students the ability to make distinctions: is this differential equation linear or nonlinear, are the terms exponential functions or polynomials? Try asking your undergraduate students what a polynomial is, or what the factor theorem is. This, of course, is not just a matter of rote learning. Definitions and theorems come in a context that will make the retention of them more straightforward, and often it is efficient to remember appropriate cues and reconstruct from there. Mathematical notation often serves as a barrier to understanding, and students may need encouragement to give a verbal or diagrammatic rather than a notational rendition of a result. Many students quoting Pythagoras’ theorem as $c^2 = a^2 + b^2$ might be quite unable to apply it because they have no insight into what it is saying geometrically. As another example, students could be encouraged to reconstruct a statement of the mean value theorem from a diagram. Every mathematical result comes with hypotheses that determine its range of applicability. Unless the students are aware of these, the result is unusable.

(3) Many students are clumsy in their use of variables to

the extent of completely sabotaging any possibility of arriving at a correct solution. Even such simple principles as explicitly defining variables used in a problem and using any variable in only one sense have to be explicitly pointed out to some students. One of my first year students was doing a problem that required of him the amount of work required to take water from a half-filled tank to the top. He got the wrong answer, because in setting up the integral, he used the variable variously to denote the distance of a lamina of water from the top of the tank and from the surface of the water. From the first days of algebra, students should be taught that variables not defined in the problem nor given by convention must be defined in the solution, and that a function is not properly defined without its domain being specified.

(4) Students do not seem to be taught to check their work. Many students seem to be unaware that they can do this, or at least unaware as to how to do it efficiently. Solutions of equations can be plugged in. Manipulations can be checked by using inverse operations, selective substitution of the variables or by alternative approaches. This is an issue that needs to be addressed in the classroom and reinforced through exercises and tests.

(5) It does not matter who you are, in doing a piece of mathematical work you are going to make mistakes sometime. Students need to learn some trouble-shooting techniques. They need to have some idea of what they should be looking for before they start on a computation, so they can head off a bad process before they get in too deep. They need to learn techniques of monitoring their work and running checks as they go along. Poor students are doubly penalized; they not only are less adept, but they wade into mathematical

situations their more capable peers know how to step around.

(6) Students need to use correct mathematical grammar. In particular, they need to present the statements in a solution in logical order, and indicate the logical relations among them. I had the pleasure of observing a high school teacher recently who was very particular on this point. She wrote only on the board complete mathematical sentences and insisted on the same from her students. I suspect that this is pretty rare. The symbols = and \Rightarrow in the hands of many students are used as space-fillers or connectives, without any regard as to their meaning. But students are not going to know what is a correct mode of mathematical expression unless someone tells them.

All of us will recognize these points as being pretty basic, but in no modern curriculum document are they addressed with the urgency that they deserve. Consistently using terminology and notation, reciting clear definitions and propositions, checking one's work and observing good techniques of mathematical writing are not the enemies of understanding, analysis and problem-solving but their necessary adjunct. We cannot assume that students will be able to look after these things without instruction, and we cannot assume that school teachers will undertake the necessary instruction if they themselves are not seized of these issues in their own mathematical study and pedagogical training. In the formation of teachers, we need to deal with them and talk about strategies whereby they can help their students look after these mathematical procedures. We need to encourage the use of orchestrated exercises, some of which can be very simple indeed, that are specifically designed to give students the skill to adopt sound practices.

DU BUREAU DU PRÉSIDENT

(see page 1 for the English version)

Reprise générale

Dans les Notes de la SMC de septembre, j'écrivais ces lignes :

«Au cours de la dernière année, à titre de président élu, j'ai constaté, par la force des choses, mais avec grand plaisir, l'ardeur au travail et l'efficacité du personnel de notre bureau administratif, ainsi que le grand nombre d'activités auxquelles participe la Société.

Je ne pourrai suffisamment insister sur la qualité des services que la Société reçoit d'un si grand nombre de bénévoles. Leur participation à l'examen auquel nous venons de nous livrer est un parfait exemple de cette contribution. Que nous nous comparions à d'autres associations canadiennes ou à des sociétés mathématiques étrangères, nous pouvons être très fiers du nombre et de la qualité de nos activités : Réu-

nions et remises de prix annuelles, programme dynamique de publication, concours commandités pour élèves du secondaire et camps de mathématiques (il y en a eu huit cette année dans six provinces), concours de bourses du fonds de dotation (qui finance, pour la deuxième année, toute une gamme de projets très intéressants) et plus encore. Visitez le site de Camel pour plus d'information sur le concours : www.smc.math.ca/Grants/.

Le congrès conjoint Math 2000, qui a connu un franc succès, est certes l'une des activités qui ont le plus marqué cette ée internationale des mathématiques. Ce congrès, tenu à l'Université McMaster (www.cms.math.ca/Events/summer00/), fut certainement l'un de nos plus importants jamais tenus au Canada. Il a en effet attiré plus de 500 participants (dont 497 inscrits) et offert une douzaine de conférences principales sur des sujets variés.

Quantité d'autres activités tout aussi réussies ont donné lieu à une semaine mathématique sans précédent au Canada.»

Comme le montre la liste des sociétés participantes et des conférences présentées à ce congrès (dans des domaines aussi variés que la génomique, la théorie du contrôle, l'imagerie, la biostatistique, le chiffrement, la logique, la géométrie symplétique et l'histoire des mathématiques) et à nos autres réunions, nous sommes réellement en mesure de jouer un rôle clé dans le milieu des sciences mathématiques en général.

Réunion d'hiver 2000 de la SMC

Cette Réunion diversifiée et stimulante (www.cms.math.ca/Events/winter00/) a terminé en beauté notre série d'activités dans le cadre de l'année internationale des mathématiques. Notre hôte, l'Université de la Colombie-Britannique (UBC), avait déjà accueilli avec brio plusieurs Réunions de la SMC et autres congrès ou rencontres mathématiques. À l'instar de toutes nos activités, le succès de nos Réunions dépend en grande partie du travail de l'équipe locale, que je remercie sincèrement au nom de la Société. Je tiens aussi à remercier tout particulièrement le directeur de la Réunion, Dale Rolfsen, les coorganisateurs locaux, Afton Cayford et John Fournier, ainsi que leurs équipes respectives du département de l'université hôte. Grâce à eux, nous avons eu droit à une Réunion extrêmement bien organisée et agréable.

Un grand merci aussi aux nombreux organisateurs de séances à qui l'on doit ce programme si intéressant et diversifié : Peter Russell (géométrie algébrique, McGill), Peter Borwein, (analyse classique et computationnelle, Simon Fraser), Abel Cadenillas (mathématiques financières, Alberta), Len Berggren (histoire des mathématiques, Simon Fraser), George Bluman et Klaus Hoechsmann (enseignement des mathématiques, UBC), Rajiv Gupta et Nike Vatsal (théorie des nombres, UBC), Michael Lamoureux (Calgary) et Ian Putnam (algèbre des opérateurs, Victoria), Akbar Rhemtulla (groupes ordonnés, Alberta), Richard Froese, Nassif Ghoussoub et Izabella Laba (équations aux dérivées partielles et différentielles, UBC), Martin Barlow (UBC), Rick Durrett (Cornell), Claudia Neuhauser (Minnesota), Edwin Perkins (probabilités et ses applications, UBC) et Kee Lam (communications libres, UBC).

La conférence publique, commanditée en partie par le Vancouver Institute (établissement fondé il y a 75 ans), a été donnée par Roger Howe (Yale). La Société royale du Canada et l'institut PIMS ont commandité de leur côté l'excellente conférence de Peter Sarnak (Princeton University). Au nom de la Société, je remercie à nouveau ces organismes de leur soutien. Je tiens également à souligner le généreux appui du Comité du programme national des trois instituts de recherche (Fields, CRM et PIMS), du Réseau de centres d'excellence MITACS, du Centre for Experimental and Constructive Mathematics, des doyens des facultés des sciences de UBC, de Simon Fraser et de l'Université de l'Alberta, du doyen des Études supérieures de UBC et des départements de mathéma-

tiques de UBC, de Simon Fraser et de l'Université de Calgary. Merci aussi à Springer-Verlag, notre éditeur et partenaire, d'avoir commandité la réception d'ouverture.

Cette Réunion nous a en outre donné l'occasion de souligner les réalisations de cinq de nos collègues. Deux prix de conférences ont été remis : le **prix Coxeter-James** de la SMC est allé à Damien Roy, de l'Université d'Ottawa, et le **Prix de doctorat de la SMC**, à Stephen Astels, de l'Université de Georgia, qui a fait ses études à Waterloo sous la direction de Cam Stewart. Quant au **prix Adrien-Pouliot**, qui souligne une contribution importante et soutenue à l'enseignement et à la vulgarisation des mathématiques, il a été remis à Bernard Courteau, de l'Université de Sherbrooke. Le **Prix de la SMC pour services méritoires** a été décerné à Arthur Sherk, de l'Université de Toronto, et le **Prix G. de B. Robinson**, remis à une personne qui a publié un article exceptionnel dans le Journal canadien de mathématiques en 1998 ou en 1999, à Ravi Vakil, du MIT. Ces prix ont été remis le soir du banquet, qui fut tout aussi couru qu'agréable. Ravi Vakil a également prononcé une conférence spéciale à la séance organisée par le Comité des étudiants de la SMC, puis il a rencontré les étudiants en groupe de travail. Nous espérons que des activités du genre deviendront une tradition à nos Réunions.

Le choix de l'Hôtel Vancouver comme lieu de rassemblement, de par son emplacement en plein centre-ville, a contribué à faire passer un agréable séjour tant aux habitués de cette ville qu'à ceux qui y venaient pour la première fois. J'admetts cependant que le temps a été plus frais que la normale... Et en plus des nombreuses activités sociales habituelles, dont le lunch des participants, des réceptions et un banquet (où, à mon avis, nous avons beaucoup mieux mangé que dans la plupart des hôtels), nous avons pu assister à la pièce de théâtre Hypatia's Street Theatre.

Activités scientifiques récentes

Voici maintenant certaines de mes autres activités récentes. J'essaierai, dans la mesure du possible, de ne pas répéter ce dont Graham Wright vous a déjà entretenu dernièrement dans *les Notes*.

OIM et Putnam Les six élèves qui ont représenté le Canada à Séoul (Corée du Sud) du 16 au 25 juillet derniers, ont rapporté une médaille d'or, deux d'argent et une de bronze, et ont terminé au 17e rang sur 82 pays en lice. Le médaillé d'or, David Arthur (collège Upper Canada), s'est classé 7e sur 461 participants. Je dois ajouter que la conférence publique présentée à notre dernière Réunion d'hiver nous a aidé à comprendre pourquoi, malheureusement, la Chine a terminé au premier rang et non le Canada...

Je tiens à souligner à nouveau les résultats exceptionnels de nos représentants au concours *Putnam* 1999. En effet, trois des dix meilleures équipes et trois des six meilleurs concurrents (7 sur 25) étaient canadiens. Dans un bulletin mensuel de la MAA publié récemment, on lisait qu'au cours des

dix dernières années, huit étudiants canadiens ont reçu une bourse Putnam contre seulement deux étudiants d'universités publiques américaines. Nous avons très hâte de connaître les résultats du concours 2000.

Il n'est pas très étonnant que les anciens membres de l'équipe de l'OIM aient très bien réussi. Comme je l'ai dit aux membres des médias et aux administrateurs présents, à la réception organisée en l'honneur du départ des participants pour l'OIM, les résultats obtenus par des Canadiens aux divers concours témoignent admirablement bien de la qualité de l'enseignement des mathématiques au premier cycle dans les universités du pays. À la deuxième rencontre annuelle des présidents, le 17 novembre dernier, Graham Wright et Tom Salisbury ont demandé, de façon générale, quelle serait la meilleure manière de faire la promotion des départements de mathématiques canadiens. La SMC souhaite mousser, à grand renfort de publicité, le succès des Canadiens, comme celui remporté au Putnam, sans toutefois voler la vedette aux départements qui souhaiteraient faire de même chacun de leur côté.

Publications et documents électroniques Nos publications continuent de faire bonne figure à une époque d'incertitude où le numérique gagne toujours en popularité. Toutes les revues de la Société sont désormais entièrement en ligne. Elles ne demeureront toutefois pas à jour très longtemps². Nous devrons prendre d'importantes décisions cette année en réponse aux questions suivantes :

- Devrions-nous entreprendre la recherche d'un *directeur des produits et des services électroniques*? Si oui, voulons-nous un professeur bénévole, qui pourrait faire partie du Comité exécutif, ou un employé salarié?
- Devrions-nous entreprendre des activités de «recherche et de développement» pour nos services de publication et d'information, ou plutôt recourir davantage à la sous-traitance, en utilisant les presses de l'AMS ou du CNRC comme éditeur, ou encore seulement comme distributeur de publications électroniques?
- Comment intégrer au mieux nos publications électroniques et imprimées?
- Par conséquent, faut-il augmenter ou diminuer les ressources du bureau de rédaction TeX? Faut-il se doter d'un éditeur TeX associé et chercher activement d'autres débouchés tout en rattachant le responsable des publications électroniques au même service? Faut-il centraliser ou distribuer le travail? Doit-il se faire au sein d'un département ou un collaboration avec un institut?

²Voir la page de la SMC au <http://dev.camel.math.ca:8080/lookup/index.php>; comparez-la aux deux pages suivantes : www.ams.org/mrlookup et www.ams.org/mstrack. À ce sujet, on peut lire une proposition du responsable des publications électroniques au www.cecm.sfu.ca/loki/Docs/CMS/Proposal.html,doc,txt.

En octobre, un sous-comité spécial (sous la présidence de Tom Salisbury) a été chargé du dossier. Nous réexaminerons ces questions et d'autres dans le courant de l'année 2001 et ferons connaître nos décisions dans ces pages. Je note une petite amélioration technologique dans la conduite de nos délibérations. En effet, le comité exécutif s'est réuni pour la première fois en conférence téléphonique le 30 novembre 2000. La séance dura deux heures et s'avéra fort productive, prélude à une rencontre beaucoup plus courte que d'habitude à la Réunion d'hiver de la SMC. Nous tâcherons de répéter l'expérience plus souvent.

Projets de copublication Dans cette optique, nous examinons différentes façons d'appuyer le nouvel éditeur European Mathematics Press ou de collaborer avec lui dans le codéveloppement, la production, l'hébergement et la distribution de ses revues électroniques. J'ai aussi eu quelques occasions de discuter de projets conjoints avec le projet Euclid (basé à Cornell et bénéficiaire d'un appui substantiel de la fondation Sloane pour aider les revues mathématiques à se mettre au numérique) et avec les presses du CNRC-ICIST (à la fois comme membre du Conseil consultatif de l'ICIST et à titre de président de la SMC).

Dans le même ordre d'idées, Jamie Mingo a représenté la SMC lors d'une rencontre à Ottawa le 4 octobre à propos du projet cyjournal.org de portail d'édition à but non lucratif proposé par le tandem CNRC/Industrie Canada. Nous nous demandons par ailleurs dans quelle mesure le CNRC pourra offrir l'accès gratuit à ses revues par voie électronique à partir du Canada du fait de leur inclusion dans le programme fédéral de dépôt de documents. Nous avons aussi soulevé la question d'un possible partage des activités publicitaires avec les presses du CNRC.

Ouvrages de la SMC La SMC a maintenant terminé le transfert de la collection *Ouvrages de mathématiques de la SMC* de Wiley and Sons à Springer New York. Les dix premiers volumes sont déjà publiés ou en voie de l'être. Quatre titres étaient en vente (succès intéressant) à la Réunion d'hiver, où Springer a donné une réception. J'ai bon espoir que l'on continuera d'en lire les critiques dans ces pages.

Traité de la SMC En juin 2000, la SMC a lancé une collection parallèle d'ouvrages plus courts, les *Traité de mathématiques de la SMC*, qui seront publiés par l'American Mathematical Society, sous la direction de Ken Davidson et de Cam Stewart.

Ces deux collections voient grand, et nous devrions inviter les membres d'autres sociétés mathématiques canadiennes à y publier leurs travaux. Le bureau achève la préparation des fichiers de style et des guides de l'auteur. En s'y conformant d'office, les auteurs allégeront considérablement le fardeau

de la production de leur leurs ouvrages, tant pour eux-mêmes que pour l'éditeur.

Répertoire combiné des membres Le Conseil a résolu en décembre d'intégrer ou d'annexer son répertoire des membres au répertoire combiné AMS/MAA/SIAM. Cette pratique pourrait commencer en 2002 si l'on parvient à résoudre toutes les questions techniques. Évidemment, la SMC continuera de tenir son propre répertoire des membres. Je souligne au passage que, en ma qualité de président de la SMC, je siège comme observateur au conseil de l'AMS, ce qui me vaut des invitations à de nombreuses réunions. En règle générale, cependant, il me semble convenable de n'assister qu'à la réunion mixte de janvier.

Les femmes en mathématiques À la Réunion d'hiver, nous avons enfin dévoilé l'affiche *Les femmes en mathématiques*. Coparrainée par Waterloo Maple, elle souligne l'apport des mathématiciennes canadiennes et sera distribuée dans toutes les écoles secondaires du pays.

L'avancement des mathématiques L'une des recommandations du groupe de travail portait sur la création d'un comité de promotion des mathématiques. Nous songeons à présent à établir un *Comité pour l'avancement des mathématiques*. La recherche de financement serait prise en charge par un sous-comité de ce nouveau comité. À cet égard, la SMC vient de recevoir pour ses activités de sensibilisation un financement triennal de 68 100 \$ du nouveau fonds du CRSNG pour la promotion de la science.

Vers un organisme scientifique national? Le secrétaire d'État à la science a convoqué une assemblée de deux jours à Aylmer (Québec) les 4-5 octobre 2000 pour discuter de la création éventuelle d'une académie autonome des sciences au Canada. Keith Taylor, qui a représenté la SMC à cette occasion, et moi-même avons répondu à un questionnaire en ligne en prévision de cette assemblée. L'initiative paraît sérieuse et relativement avancée. L'issue des récentes élections rend plus vraisemblable la création prochaine d'un tel organisme et la mise à disposition d'un financement substantiel pour dynamiser la Société royale du Canada.

Relations avec les autres sociétés

Comme je l'ai écrit dans un article paru dans le bulletin de novembre de la Société canadienne de recherche opérationnelle (SCRO) (l'une des nouvelles tâches attribuées au président de la SMC), je souhaite voir nos activités conjointes avec la Société statistique du Canada (SSC), la Société de mathématiques appliquées et industrielles du Canada

(SMAIC), la SCRO et d'autres sociétés se multiplier. Il faudrait également intensifier nos relations avec la MAA, la SIAM et la Société de mathématiques européenne (EMS), sans oublier de tenter d'autres percées au Québec. Nous venons par exemple de signer avec l'EMS une entente de réciprocité semblable à celle conclue avec l'AMC et plusieurs autres sociétés. Nous sommes également à examiner la possibilité d'un congrès conjoint SMC/MAA/SMAI à l'été 2005.

Ce qui nous amène à nous poser une question fondamentale :

Étant donné la croissance qu'ont connus le réseau MITACS et les instituts, quel rôle la SMC devrait-elle surtout jouer désormais?

Comment, par exemple, devrions-nous réagir au projet de centre de conférence national à Kananaskis?

UMI – CEIC

La grande «machine organisationnelle» du prochain congrès de l'UMI, qui aura lieu à Beijing en 2002, s'est mise en branle. Le Canada espère tenir une réception dans le cadre du congrès, possiblement à l'ambassade, en collaboration avec le réseau MITACS et les trois instituts.

J'assume en outre la vice-présidence d'un comité de l'information et des communication électroniques de l'UMI. Ce comité (www.math.ceic.ca) progresse lentement, mais sûrement (du moins nous l'espérons) en ce qui concerne la rédaction de sa charte, les questions liées aux métadonnées, la publication électronique, les droits d'auteur et la propriété intellectuelle. Le comité s'est réuni à Vienne, du 5 au 7 octobre. La SMC a commandité la réunion précédente, qui a eu lieu en décembre 1999 à Berkeley.

En plus de rédiger un rapport détaillé qui sera présenté au Comité exécutif de l'UMI à Beijing, le principal objectif du comité consiste à développer un réseau mondial, *MathNet*, où l'on pourrait trouver de l'information sur les mathématiciens et les mathématiques. Les deux premières étapes sont l'installation de «pages d'accueil secondaires» (pour établissements, départements et individus) et l'intégration de services de prétrage. Nous étudions en ce moment une quarantaine de «beta-testeurs», et j'espère que la SMC et les départements des vice-présidents accepteront de participer au projet en mettant ces pages secondaires en ligne, ce qui, en principe, devrait être assez simple. Je demanderai également aux trois instituts de commencer à préparer leurs documents avec les métadonnées nécessaires pour que le système puisse les retrouver facilement.

CMS MEMBERSHIP ...

The 2001 Membership Notices have been mailed. Please renew your membership now.

ADHÉSION À LA SMC ...

Les avis d'adhésion 2001 étaient postés. S'il vous plaît renouveler votre adhésion maintenant.

Random Notes On Vancouver

by Peter Fillmore

Wednesday: We arrived for the Winter Meeting a couple of days early, well-provided with rain gear, only to be greeted by sunshine! As it turned out, this was to last for the whole meeting. Settled into our comfortable room at the Hotel Vancouver, overlooking the Art Gallery square and its dramatic fountain.

Thursday: Walked to Canada Place and took the ferry and bus to Grouse Mountain. The trail to the top was closed for the season, so we walked in the Capilano River Park instead, winding up at the famous but very touristy suspension bridge.

Friday: Spent the day poking around UBC, including a walk on Wreck Beach and a concert in the beautiful new Chan Center.

Saturday: Began the business of the meeting proper by attending the Development Group meeting. An initiative of Michel Delfour some years ago, this gives an opportunity for an informal exchange of ideas between the Executive and committee chairs. There was an interesting discussion of the future of publishing in the CMS: this is quite a technical matter, but it appears that we may be reaching a cross-roads between maintaining expertise in-house and contracting out some portion of it. There was also discussion of the Endowment Fund Grants (not enough applications) and the recommendation of one of the task forces that the CMS take a position on minimum requirements for teaching school mathematics.

After lunch came the Board of Directors meeting. This included reports from the CMS officers and committee chairs, as well as motions, described elsewhere in the *Notes*. Much of this necessary but routine activity takes place to an accompaniment of stifled yawns, but from time to time interesting news is revealed or debate breaks out. This year President Borwein, the second of the name, directed the proceedings with admirable dispatch and knowledgeability, and it was clear that 2000 had been a very good year for the Society.

In the evening Roger Howe gave a public lecture at UBC, on the subject of teacher preparation in China. Unfortunately your observer lingered too long at the reception and missed the bus.....

Sunday: The scientific portion of the meeting was given an excellent kick-off this morning by Peter Sarnak's lecture

on Hilbert's eleventh problem. Then off to a meeting of the Math Fellows of the Royal Society of Canada, the agenda including the Society's journal *Mathematical Reports*, an initiative to establish a new National Academy of Science, and nominees for election.

In the afternoon came the first meetings of the various symposia, nine of them, making the choice difficult.

This evening we boarded busses for UBC to attend a “staged reading” of a new play, *Hypatia’s Street Theatre*, by Klaus Hoechsmann of the UBC Math Department and Ted Galay, a theatre professional. This proved to be no amateur skit, as some had the misfortune of witnessing at the AMS meeting in Washington a year ago, but an ambitious intellectual effort “to extend the teaching of mathematics by the resources of the stage”. It was played with considerable success by a mixed group of professional and student actors.

Monday: Attended the meeting of the Publications Committee, always interesting if rather technical at times. The electronic side of this is problematic, with our gurus urging ever-increasing levels of investment of time and cash in technical areas that are not easy to assess. Our very healthy publication program has some spare capacity and consideration is being given to expanding to other groups the work we already do for the Royal Society. There is even a suggestion that we set up a publishing house.

Ravi Vakil’s plenary talk in the afternoon, on the topic of working with high school students, was enjoyed by a large crowd. This was followed by Damien Roy’s Coxeter-James lecture (the *Notes* will carry the text of this) and, in the evening, the conference banquet, with exceptionally good food and entertainment. While listening to the excellent speeches, felt grateful to our Western colleagues, whose imagination and organizational skills had produced such a memorable meeting. It was wonderful to see so many friends, old and new, even several cousins.

Tuesday: With the meeting running down and energy flagging, your servant managed only one lecture this day, Stephen Astels’s Doctoral Prize Lecture on Cantor sets and continued fractions. Reflected that with able and energetic young people like Astels, Roy and Vakil, the future of our enterprise seems assured.

CMS Summer Meeting 2001

University of Saskatchewan

Saskatoon, Saskatchewan

June 2 - 4, 2001

First Announcement

On behalf of the University of Saskatchewan, the Department of Mathematics and Statistics extends a warm welcome to all participants in the Summer 2001 Meeting of the Canadian Mathematical Society (CMS).

Following the usual format, the meeting will include ten symposia (one of which is being organized in honour of David Boyd), contributed papers, four plenary speakers, as well as Jeffery-Williams and Krieger-Nelson Prize lectures. There will be a public lecture delivered by De Witt Sumners of Florida State University, on June 2.

All scientific talks will be held at the University of Saskatchewan. Some pre-meeting activities and the meeting banquet will be held at the Delta Bessborough Hotel, 601 Spadina Crescent East.

The most up-to-date information concerning the programmes, including scheduling, will be made available at the following world wide web address:

<http://www.cms.math.ca/Events/summer01>

Meeting registration forms and hotel accommodation forms is published in the February 2001 issue of the *CMS Notes* and are also available on the website, along with on-line forms for registration and submission of abstracts.

Public Lecture

Saturday, June 2

De Witt Sumners, Florida State University

Plenary Speakers

Georgia Benkart (Wisconsin)

Zoe Chatzidakis (Paris 7)

Geoffrey Grimmett (Cambridge)

Barry Simon (Caltech).

Prizes and Awards

The **CMS Jeffery-Williams Lecture** will be given by **David Boyd**, University of British Columbia.

The **CMS Krieger-Nelson Lecture** will be given by **Lisa Jeffrey**, University of Toronto.

Symposia

By invitation of the Meeting Committee, there will be symposia in the following areas. Here is the preliminary list of speakers.

Abstract Harmonic Analysis

(Org: **Anthony Lau**, University of Alberta and
Keith Taylor, University of Saskatchewan)

Larry Baggett (Colorado), Fereidoun Ghahramani (Manitoba), Colin Graham (Bowen Island), Edmond Granirer (UBC), Zhiguo Hu (Windsor), Eberhard Kaniuth (Paderborn), Mahmood Khoshkam (Saskatchewan), Tianxuan Miao (Lakehead), Eckart Schulz (Suranaree University of Technology), Peter Wood (Wilfrid Laurier).

Geometric Topology

(Org: **Alex Chigogidze** and **Ed Tymchatyn**,
University of Saskatchewan)

Sergei M.Ageev (Brest State), Nikolay Brodskiy (Saskatchewan), Robert J Daverman (Tennessee), Alexander N Dranishnikov (Florida), Jerzy Dydak (Tennessee), Paul Fabel (Mississippi State), Alejandro Illanes (UNAM), Alexandre Karassev (Saskatchewan), Kazuhiro Kawamura (Tsukuba), James E Keesling (Florida), Michael Levin (Texas Tech), John C Mayer (Alabama at Birmingham), Lex G Oversteegen (Alabama at Birmingham), Janusz R Prajs (Idaho State), Dusan Repovs (Ljubljana), H Murat Tuncali (Nipissing), Vesko Valov (Nipissing).

Graph Theory

(Org: **Brian Alspach** and **Denis Hanson**,
University of Regina)

Speakers to be announced.

Infinite dimensional Lie theory and representation theory

(Org: **Stephen Berman**, University of Saskatchewan)

Bruce Allison (Alberta), Yuri Bahturin (Memorial), Georgia Benkart (Wisconsin), Yuly Billig (Carleton), Dan Britten (Windsor), Chongying Dong (California, Santa Cruz), Yun Gao (York), Terry Gannon (Alberta), Naihuan Jing (North Carolina State), Hai sheng Li (Rutgers at Camden), Erhart Neher (Ottawa), Arturo Pianzola (Alberta), Michel Racine (Ottawa), Yoji Yoshii (Alberta).

Mathematical Education Cognition in Mathematics

(Org: **Florence Glanfield**, University of Saskatchewan)

Speakers to be announced.

Matrix Analysis

(Org: **Judi MacDonald**, University of Regina)

Shaun Fallat (Regina), Chun-Hua Guo (Regina), Allen Herman (Regina), Hadi Kharaghani (Lethbridge), Steve Kirkland (Regina), D. Olesky (Victoria), P.N. Shivakumar (Manitoba), Michael Tsatsomeros (Regina), Peter Zizler (Mount Royal).

Model theoretic algebra

(Org: **Bradd Hart**, McMaster University / Fields Institute,
F.-V. Kuhlmann and **S. Kuhlmann**,
University of Saskatchewan)

Bradd Hart (McMaster / Fields Institute), Deirdre Haskell (McMaster), Franz-Viktor Kuhlmann (Saskatchewan), Salma Kuhlmann (Saskatchewan), Jim Loveys (McGill) - to be confirmed, Michael Makkai (McGill), Murray Marshall (Saskatchewan), Chris Miller (Ohio State University, Columbus), Rahim Moosa (Urbana), Hans Schoutens (Rutgers) - to be confirmed, Ziv Shami (McMaster) - to be confirmed, Katrin Tent (Wuerzburg, Germany), Ross Willard (Waterloo).

Number Theory - in honour of David Boyd

(Org: **Peter Borwein**, Simon Fraser University
and **Michael Bennett**, University of Illinois
at Urbana-Champaign)

Jim Arthur (Toronto), Michael Bennett (Illinois), Peter Borwein (Simon Fraser), Imin Chen (Simon Fraser), Stephen Choi (Simon Fraser), Henri Darmon (McGill), Karl Dilcher (Dalhousie), John Friedlander (Toronto), Rick Mollin (Calgary), Ram Murty (Queens), Kumar Murty (Toronto), Nathan Ng (British Columbia), Christopher Pinner (Kansas), Damien Roy (Ottawa), Cam Stewart (Waterloo), Hugh Williams (Manitoba).

Rigorous studies in the

statistical mechanics of lattice models
(Org: **Chris Soteros**, University of Saskatchewan
and **Stu Whittington**, University of Toronto)

Mireille Bousquet-Mélou (Bordeaux), Richard Brak (Melbourne), Frank den Hollander (EURANDOM), Yuanan Diao (UNC Charlotte), Bertrand Duplantier (Saclay), Tony Guttmann (Melbourne), Buks Janse van Rensburg (York), Pierre Leroux (UQAM), Neal Madras (York), Aleks Owczarek (Melbourne), Nicholas Pippenger (British Columbia), Yvan Saint-Aubin (Montreal), Gordon Slade (British Columbia), Alan Sokal (NYU), Chris Soteros (Saskatchewan), De Witt Sumners (Florida State), Stu Whittington (Toronto).

Scattering theory and integrable systems

(Org: **Jacek Szmigielski**, University of Saskatchewan)

M. Adler (Brandeis), R. Beals (Yale), Yu. Berest (Cornell), O. Bogoyavlenskij (Queens), N. Kamran (McGill), P. Deift

(Courant), M. Gekhtman (Notre Dame), J. Harnad (Concordia), L. Littlejohn (Utah State), G. Misiolek (Notre Dame), Y. Nakamura (Osaka), B. Pelloni (Imperial College, London), D. Sattinger (Utah State).

Contributed Papers Session

(Org: **Patrick Browne**, University of Saskatchewan)

Contributed papers of 15 minutes duration are invited. Abstracts for CMS contributed papers should be prepared as specified below. For an abstract to be eligible, the abstract must be received before **April 2, 2001**. The abstract must be accompanied by its contributor's registration form and payment of the appropriate fees.

Travel Grants for Graduate Students

Limited funds are available to partially fund the travel and accommodation costs for graduate students. For more information, please contact the Meeting Committee at gradtravel-summer01@cms.math.ca.

Social Events

A **welcoming reception** will be held Friday, June 1, from 7:00 to 9:00 p.m. in the Terrace Lounge of the Delta Bessborough Hotel.

The **Delegates' Luncheon** will be held on Saturday, June 2, from 12:00 to 2:00 p.m. at the University of Saskatchewan. A ticket to this luncheon is included in all registration fee categories. **Lunch on Sunday and Monday** will also be provided.

A **banquet** will be held on Sunday, June 3, from 7:30 p.m. at the Adam Ballroom of the Delta Bessborough Hotel, preceded by a cash bar at 6:30 p.m. Tickets to this event are available at \$50.00 each.

Coffee and juice will be available during the scheduled breaks.

Business Meetings

The CMS will be holding business meetings during the course of the meeting. Additional information will be provided in later announcements and may be found on the Society's website.

The **CMS Executive Committee Meeting** will meet on Thursday, May 31, from 6:00 to 9:00 p.m. in the Terrace Lounge of the Delta Bessborough Hotel.

The **CMS Development Group Luncheon** will be held from 11:00 a.m. to 1:00 p.m. on Friday, June 1 in the Terrace Lounge of the Delta Bessborough Hotel.

The **CMS Board of Directors Meeting** will be held from 1:30 to 6:30 p.m. on Friday, June 1 in the Battleford Room of the Delta Bessborough Hotel.

The CMS General Meeting is scheduled for Sunday, June 3 at the University of Saskatchewan. Lunch will be provided. All CMS members are invited to attend.

Exhibits

Exhibits will be open during specified hours during the conference.

Submission of Abstracts

Abstracts for all talks will be published in the meeting programme and will also be available at <http://cms.math.ca/CMS/Events/summer01>.

Abstracts may be sent electronically, following instructions given below. Electronic submission of abstracts is preferred. If this is not possible, abstracts may also be prepared on the standard form available from the CMS Executive Office, 577 King Edward, Suite 109, Ottawa, Ontario CANADA K1N 6N5.

Speakers are asked to submit their abstracts as soon as possible. The deadline for submission of abstracts has been set at **April 2, 2001**. The organizers appreciate the cooperation of all the speakers in observing this important deadline.

Electronic submission of abstracts: To submit your abstract, please go to the forms section of the meeting website: <http://cms.math.ca/CMS/Events/summer01>.

Alternatively, files including the session, speaker's name, affiliation, complete address, title of talk, and abstracts may be sent to

abstracts@cms.math.ca (speakers), or
cp-abstracts@cms.math.ca (contributed papers).

Please make sure to include the session name in your subject line.

**Important deadline for submission of abstracts:
April 2, 2001.**

Registration

The registration form will appear in the **February 2001** issue of the *CMS Notes* and are also available from:

CMS Executive Office
 577 King Edward, Suite 109, P.O. Box 450, Station A
 Ottawa, Ontario CANADA K1N 6N5
 Tel: 613-562-5702 FAX: 613-565-1539
 Email: meetings@cms.math.ca

Electronic pre-registration is available at
<http://cms.math.ca/CMS/Events/summer01>

Payment for preregistration may be made by cheque, or by VISA or MasterCard. Although registration fees are given in Canadian dollars, delegates may send cheques in US dollars by contacting their financial institution for the current exchange rate.

Please note that payment must be RECEIVED IN OTAWA on or before May 1 in order to qualify for reduced rates.

Lunches included	Before May 1	After May 1
Plenary speakers/prize lecturers	\$ 0	\$ 0
Session speakers	200	200
Organizers	135	135
Non-members	400	520
CMS/AMS/MAA members with grants	270	350
CMS/AMS/MAA members without grants	135	175
One-day fee	135	175
Postdocs, retired	100	130
Students, unemployed	50	65
Banquet (free for plenary/prize speakers)	50	50

CMS = Canadian Mathematical Society
 AMS = American Mathematical Society
 MAA = Mathematical Association of America

Refund Policy

Delegates wishing to cancel their registration must notify the CMS Executive Office **in writing before May 23** to receive a refund less a \$40 processing fee. Those whose contributed paper has not been accepted will upon request be fully refunded.

Accommodation

It is recommended that those attending the conference book early to avoid disappointment. Blocks of rooms have been reserved at the locations given below and will be held until the deadlines specified below. Reservations not made by that date will be on a request only, space available basis. Rates are per room, per night and are quoted in Canadian dollars.

Delta Bessborough Hotel

601 Spadina Crescent, Saskatoon, Saskatchewan S7K 3G8

Check-in: 15:00; Check-out: 12:00 noon

Applicable taxes: GST (7%), PST (6%)

Deadline: April 30, 2001 Group Code: GFMATH

Phone: 306-244-5521 toll-free: 800-268-1133

FAX: 306-665-7262 <http://www.deltahotels.com>

Rates: \$99, Standard Room, single/double occupancy
 \$114, Signature Service, single/double occupancy
 \$165, Bedsitting, single/double occupancy
 \$10 additional per night for Riverview rooms
 \$15 additional per night for Business Zone rooms
 Other premium room types are also available.
 The hotel includes 3 wheelchair accessible rooms
 (children 18 yrs old and under sharing parents' accommodation are complimentary)

Park Town Hotel

924 Spadina Crescent East, Saskatoon, Saskatchewan S7K 3H5

Check-in: between 2:00 and 3:00 p.m.; Check-out: 12:00 noon

Applicable taxes: GST (7%), PST (6%)

Deadline: April 30, 2001

Group Code: 2145 - Canadian Mathematical Society

Phone: 306-244-5564 Toll-free: 800-667-3999

FAX: 306-665-8698 email: reservations@parktownhotel.com

<http://www.parktownhotel.com>

Rates: \$72, Standard room, single/double occupancy
\$85, Riverview Executive, single occupancy
\$93, Riverview Executive, double occupancy
\$150, Two room Suite, single/double occupancy
(children 16 yrs old and under sharing parents' accommodation are complimentary)

Voyageur Place, U of S Residence

Conference Office, 131 Saskatchewan Hall, 91 Campus Drive

University of Saskatchewan, Saskatoon SK. S7N 5E8

Check-in/out: There is no official check-in and check-out times. Please specify your arrival and departure times on the accommodation form and you will be accommodated.

Applicable taxes: GST (7%)

Deadline: May 18, 2001 Group Code: CMS

Phone: 306-966-8600 FAX: 306-966-8599

Email: conference_catering@usask.ca

<http://Adminsrv.usask.ca/csd> (click on Conference and Catering)

Rates: \$33.97 (GST incl), pp/pn, single, /w breakfast (limited #)
\$28.62 (GST incl), pp/pn, double, /w breakfast
\$6.42 admin fee should be added to each reservation
Daily maid service. Shared washroom facilities.

Standard services include bedding, towels and soap.

In all cases, delegates must make their own reservations. The conference rate is extended up to two days pre- and post-convention. Where applicable, and in order for your room to be applied against our block, please quote the group code.

Accommodation reservations and cancellations: For the **Delta Bessborough Hotel**, reservations will be held until 4:00 p.m. on the day of arrival unless guaranteed by a first night deposit, company guarantee, or major credit card guarantee. Should a guaranteed reservation not be cancelled 48 hours prior to the day of arrival, the cost of the room for the first night will be charged to the guarantor.

For the **Park Town Hotel**, reservations will be held until 6:00 p.m. on the day of arrival unless guaranteed by a first night deposit, or major credit card guarantee. Should a guaranteed reservation not be cancelled by 12:00 noon on the day of arrival, the cost of the room for the first night will be charged to the guarantor.

For the **U of S Residences**, full payment must accompany the reservation. Post-dated cheques are not accepted and will be returned to you. The U of S accepts cheques, VISA and MasterCard. Single rooms are limited. Double room accommodation will be assigned if single room accommodation is not available. Requests for cancellations must be received in writing by the Conference Office before May 18 for a full refund. Notice of cancellation received after this date will be subject to a \$20.00 cancellation fee. There is no rebate of charges for late arrivals or early departure.

Child Care

The Delta Bessborough can provide some recommendations for child care. Please note that ample lead-time should be allowed to make arrangements. Child care is not available at

neither the Park Town Hotel nor the University. Additional information regarding child care options will be posted to the website as it becomes available.

Travel

The City of Saskatoon: Detailed information regarding the City of Saskatoon, including tourism information, local weather and climate, car rental information, site and street maps, and suggested One Day Itineraries for self-guided tours, are available at the websites:

<http://math.usask.ca/fvk/cmsinfo.htm>

<http://www.city.saskatoon.sk.ca/tourism/>

Parking: Delegates staying at the Delta Bessborough Hotel may park for \$6.00 per night for self parking or \$8.00 per night for valet parking.

For those staying at the Park Town Hotel, parking is available at no charge.

Delegates staying at the U of S Residences may park in Z lot (3 blocks from residence) at no charge.

Acknowledgements

Support from the following is gratefully acknowledged:

- University of Saskatchewan, Department of Mathematics & Statistics
- University of Saskatchewan, Visiting Lectures Fund
- The National Programme Committee (a joint funding body of the Centre de recherches mathématiques, The Fields Institute for Research in Mathematical Sciences, and The Pacific Institute for the Mathematical Sciences)

The Canadian Mathematical Society would like to acknowledge the contribution of the members of the Meeting Committee for organizing this meeting.

Meeting Committee

Programme Meeting Director: Keith Taylor (Saskatchewan) Brian Alspach (Regina), M. Bennett (Illinois U-C), S. Berman (Saskatchewan), Peter Borwein (Simon Fraser), Patrick Brown (Saskatchewan), A. Chigogidze (Saskatchewan), Florence Glanfield (Saskatchewan), Denis Hanson (Regina), Bradd Hart (McMaster/Fields Institute), F.-V. Kuhlmann (Saskatchewan), S. Kuhlmann (Saskatchewan), Anthony T. Lau (Alberta), Judith MacDonald (Regina), Chris Soteros (Saskatchewan), J. Szmielski (Saskatchewan), E. Tymchatyn (Saskatchewan), S.G. Whittington (Toronto), Graham Wright (CMS ex-officio).

Local Arrangements Chair: Chris Soteros (Saskatchewan) Monique Bouchard (CMS ex-officio), Murray Bremner (Saskatchewan), Yvonne Cuttle (Saskatchewan), Franz-Viktor Kuhlmann (Saskatchewan).

Réunion d'été de la SMC
Université de la Saskatchewan
Saskatoon (Saskatchewan)
2-4 juin 2001

Première annonce

Au nom de l'Université de la Saskatchewan, le département de mathématiques et statistique souhaite cordialement la bienvenue à tous les participants à la Réunion d'été 2001 de la Société mathématique du Canada.

Conformément au format habituel, la Réunion comprendra dix symposiums (dont un en l'honneur de David Boyd), des communications libres, quatre conférences principales ainsi que les conférences des lauréats des prix Jeffery-Williams et Krieger-Nelson. Une conférence publique sera donnée par De Witt Sumners de l'Université d'état de la Floride le 2 juin.

Toutes les activités au programme de la Réunion se dérouleront sur le campus de l'Université de la Saskatchewan. D'autres activités qui précéderont la Réunion ainsi que le Banquet auront lieu à l'Hôtel Delta Bessborough, situé au 601 Spadina Cres. Est.

Vous trouverez l'information la plus récente sur les programmes, y compris les horaires, à l'adresse Web suivante :

<http://www.smc.math.ca/Events/summer01>

Vous trouverez les formulaires d'inscription et de réservation d'hôtel dans le numéro de février 2001 des *Notes de la SMC*. Ils seront aussi publiés sur notre site Web, tout comme les formulaires électroniques d'inscription et de présentation des résumés.

Conférence publique

Le samedi 2 juin
De Witt Sumners, Université d'état de la Floride

Conférenciers principaux

Georgia Benkart (Wisconsin)
Zoe Chatzidakis (Paris 7)
Geoffrey Grimmett (Cambridge)
Barry Simon (Caltech).

Prix

La conférence **Jeffery-Williams de la SMC** sera donnée par **C. David Boyd**, de l'Université de la Colombie-Britannique, et la conférence **Krieger-Nelson de la SMC**, par **Lisa Jeffrey**, de l'Université de Toronto.

Symposiums

Le Comité de coordination a organisé des symposiums sur les thèmes qui suivent. Voici la liste préliminaire des conférenciers :

Analyse harmonique abstraite

(Org. : **Anthony Lau**, Université de l'Alberta et
Keith Taylor, Université de la Saskatchewan)

Larry Baggett (Colorado), Fereidoun Ghahramani (Manitoba), Colin Graham (Bowen Island), Edmond Granirer (UBC), Zhiguo Hu (Windsor), Eberhard Kaniuth (Paderborn), Mahmood Khoshkam (Saskatchewan), Tianxuan Miao (Lakehead), Eckart Schulz (Suranaree University of Technology), Peter Wood (Wilfrid Laurier).

Topologie géométrique

(Org. : **Alex Chigogidze** et **Ed Tymchatyn**,
Université de la Saskatchewan)

Sergei M.Ageev (Brest State), Nikolay Brodskiy (Saskatchewan), Robert J Daverman (Tennessee), Alexander N Dranishnikov (Florida), Jerzy Dydak (Tennessee), Paul Fabel (Mississippi State), Alejandro Illanes (UNAM), Alexandre Karassev (Saskatchewan), Kazuhiro Kawamura (Tsukuba), James E Keesling (Florida), Michael Levin (Texas Tech), John C Mayer (Alabama à Birmingham), Lex G Oversteegen (Alabama à Birmingham), Janusz R Prajs (Idaho State), Dusan Repovs (Ljubljana), H Murat Tuncali (Nipissing), Vesko Valov (Nipissing).

Théorie des graphes

(Org. : **Brian Alspach** et **Denis Hanson**,
Université de Regina)

Conférenciers à confirmer.

*Théorie de Lie en dimension infinie
et théorie des représentations*

(Org. : **Stephen Berman**, Université de la Saskatchewan)

Bruce Allison (Alberta), Yuri Bahturin (Memorial), Georgia Benkart (Wisconsin), Yuly Billig (Carleton), Dan Britten (Windsor), Chongying Dong (California, Santa Cruz), Yun Gao (York), Terry Gannon (Alberta), Naihuan Jing (North Carolina State), Hai sheng Li (Rutgers à Camden), Erhart Neher (Ottawa), Arturo Pianzola (Alberta), Michel Racine (Ottawa), Yoji Yoshii (Alberta).

*Enseignement des mathématiques
Cognition et mathématiques*

(Org. : **Florence Glanfield**, Université de la Saskatchewan)

Conférenciers à confirmer.

Analyse matricielle(Org. : **Judi MacDonald**, Université de Regina)

Shaun Fallat (Regina), Chun-Hua Guo (Regina), Allen Herman (Regina), Hadi Kharaghani (Lethbridge), Steve Kirkland (Regina), D. Olesky (Victoria), P.N. Shivakumar (Manitoba), Michael Tsatsomeros (Regina), Peter Zizler (Mount Royal).

Algèbre en théorie des modèles

(Org. : **Bradd Hart**, Université McMaster / Institut Fields, **F.-V. Kuhlmann et S. Kuhlmann**, Université de la Saskatchewan)

Bradd Hart (McMaster / Institut Fields), Deirdre Haskell (McMaster), Franz-Viktor Kuhlmann (Saskatchewan), Salma Kuhlmann (Saskatchewan), Jim Loveys (McGill) - à confirmer, Michael Makkai (McGill), Murray Marshall (Saskatchewan), Chris Miller (Ohio State University, Columbus), Rahim Moosa (Urbana), Hans Schoutens (Rutgers) - à confirmer, Ziv Shami (McMaster) - à confirmer, Katrin Tent (Wuerzburg, Germany), Ross Willard (Waterloo).

*Théorie des nombres**- en l'honneur de David Boyd*

(Org. : **Peter Borwein**, Université Simon Fraser et **Michael Bennett**, Université de l'Illinois à Urbana-Champaign)

Jim Arthur (Toronto), Michael Bennett (Illinois), Peter Borwein (Simon Fraser), Imin Chen (Simon Fraser), Stephen Choi (Simon Fraser), Henri Darmon (McGill), Karl Dilcher (Dalhousie), John Friedlander (Toronto), Rick Mollin (Calgary), Ram Murty (Queens), Kumar Murty (Toronto), Nathan Ng (British Columbia), Christopher Pinner (Kansas), Damien Roy (Ottawa), Cam Stewart (Waterloo), Hugh Williams (Manitoba).

*Études rigoureuses dans la**mécanique statistique des modèles de réseaux*

(Org. : **Chris Soteros**, Université de la Saskatchewan et **Stu Whittington**, Université de Toronto)

Mireille Bousquet-Mélou (Bordeaux), Richard Brak (Melbourne), Frank den Hollander (EURANDOM), Yuanan Diao (UNC Charlotte), Bertrand Duplantier (Saclay), Tony Guttman (Melbourne), Buks Janse van Rensburg (York), Pierre Leroux (UQAM), Neal Madras (York), Aleks Owczarek (Melbourne), Nicholas Pippenger (British Columbia), Yvan Saint-Aubin (Montreal), Gordon Slade (British Columbia), Alan Sokal (NYU), Chris Soteros (Saskatchewan), De Witt Sumners (Florida State), Stu Whittington (Toronto).

Diffusion inverse et systèmes intégrables(Org. : **Jacek Szmigelski**, Université de la Saskatchewan)

M. Adler (Brandeis), R. Beals (Yale), Yu. Berest (Cornell), O. Bogoyavlenskij (Queen's), N. Kamran (McGill), P. Deift (Courant), M. Gekhtman (Notre Dame), J. Harnad (Concordia), L. Littlejohn (Utah State), G. Misiolek (Notre Dame), Y. Nakamura (Osaka), B. Pelloni (Imperial College, London), D. Sattinger (Utah State).

Communications libres(Org. : **Patrick Browne**, Université de la Saskatchewan)

Nous lançons un appel de communications libres de 15 minutes chacune. Les résumés devront respecter les critères précisés ci-dessous et nous parvenir **au plus tard le 2 avril 2001**. Nous demandons à chacun de joindre au résumé le formulaire d'inscription et le règlement des frais pertinents.

Subventions pour étudiants diplômés

Les étudiants diplômés ont accès à un fonds limité pour financer une partie de leurs frais de déplacement et de séjour. Pour de plus amples renseignements, veuillez communiquer avec le Comité de coordination à l'adresse suivante : gradtravel-summer01@cms.math.ca.

Activités sociales

Une **réception** aura lieu le vendredi 1er juin, de 19 h à 21 h, à l'Hôtel Delta Bessborough (Terrace Lounge).

Le **lunch des participants** se tiendra le samedi 2 juin, de midi à 14 h, à l'Université de la Saskatchewan. Ce repas est compris dans toutes les catégories d'inscription. **Les lunches de dimanche et lundi** sont aussi inclus.

Un **banquet** aura lieu le dimanche 3 juin, à compter de 19 h 30, à l'Hôtel Delta Bessborough. Il y aura un service de bar payant à partir de 18 h 30. On peut se procurer des billets pour cette activité au coût de 50 \$ chacun.

Du café et des jus seront servis pendant les pauses.

Séances de travail

La SMC organisera des séances de travail à l'occasion de cette Réunion. De plus amples renseignements seront fournis dans les prochaines annonces ou sur le site Web de la Société.

Le **Comité exécutif de la SMC** tiendra une réunion le jeudi 31 mai de 18 h à 21 h à l'Hôtel Delta Bessborough (Terrace Lounge).

Le lunch du **Groupe de développement de la SMC** aura lieu de 11 h à 13 h le vendredi 1er juin à l'Hôtel Delta Bessborough (Terrace Lounge).

La réunion du **Conseil d'administration de la SMC** aura lieu de 13 h 30 à 18 h 30 le vendredi 1er juin dans la salle Battleford de l'Hôtel Delta Bessborough.

L'assemblée générale annuelle de la SMC aura lieu le dimanche 3 juin à l'Université de la Saskatchewan. Un lunch sera servi. Tous les membres de la SMC sont invités.

Exposition

Les kiosques d'exposition seront ouverts aux heures indiquées durant la Réunion.

Envoi des résumés

Tous les résumés paraîtront dans le programme de la Réunion et seront accessibles sur le site Web : <http://smc.math.ca/CMS/Events/summer01>.

Les participants peuvent envoyer leur résumé sous forme électronique en suivant les instructions ci-dessous. Il est préférable de remettre les résumés par voie électronique, mais si ce n'est pas possible, vous pouvez utiliser le formulaire standard que vous pourrez vous procurer au Bureau administratif de la SMC, 577, avenue King-Edward, bureau 109, Ottawa (Ontario) Canada K1N 6N5.

Les conférenciers sont priés de remettre leur résumé le plus tôt possible. La date limite est fixée au **2 avril 2001**. Les organisateurs remercient les conférenciers de bien vouloir respecter cette importante échéance.

Envoy des résumés par courriel : Pour envoyer votre résumé, rendez-vous à la section des formulaires du site Web de la Réunion : <http://cms.math.ca/CMS/Events/summer01>.

Vous pouvez aussi nous faire parvenir un fichier comprenant le nom de la séance, le nom du conférencier, son affiliation, son adresse complète, le titre de la conférence et le résumé à l'une des adresses suivantes : resumes@smc.math.ca (conférenciers invités), ou cl-resumes@smc.math.ca (communications libres).

N'oubliez pas de préciser le nom de la séance dans le sujet de votre message.

Important : La date limite de remise des résumés est le 2 avril 2001.

Inscription

Un formulaire d'inscription paraîtra dans le numéro de **février 2001** des *Notes*. On peut également se le procurer auprès de la SMC :

Bureau administratif de la SMC, 577, av King-Edward, bureau 109
C.P. 450, Succursale A, Ottawa (Ontario) CANADA K1N 6N5
Téléphone : 613-562-5702, Télécopieur : 613-565-1539
Courriel : reunions@smc.math.ca

Vous pouvez aussi vous inscrire sur le Web au :

<http://smc.math.ca/CMS/Events/summer01>

Les frais (en devises canadiennes) sont payables par chèques, VISA ou MasterCard. Les paiements en devises américaines seront acceptés, mais nous vous demandons de contacter votre institution financière pour prendre connaissance du taux de change en vigueur.

Le paiement doit nous PARVENIR À OTTAWA au plus tard le 1er mai pour que vous ayez droit aux tarifs réduits.

	lunchs inclus	Avant le 1er mai	Après le 1er mai
Conférenciers principaux ou primés	\$ 0	\$ 0	
Conférenciers	200	200	
Organisateurs	135	135	
Non-membres	400	520	
Membres SMC/AMS/MAA avec subvention	270	350	
Membres SMC/AMS/MAA sans subvention	135	175	
Frais d'une journée	135	175	
Postdocs, retraités	100	130	
Étudiants, sans-emploi	50	65	
Banquet (gratuits pour principaux/primés)	50	50	

SMC = Société mathématique du Canada

AMS = American Mathematical Society

MAA = Mathematical Association of America

Politique de remboursement

Les participants qui désirent annuler leur inscription doivent en aviser le bureau administratif de la SMC **par écrit avant le 23 mai** pour se voir rembourser leurs frais d'inscription (moins 40 \$). Les participants dont les communications libres n'auront pas été acceptées seront remboursés intégralement sur demande.

Hébergement

Il est fortement recommandé aux participants de réserver à l'avance. Des chambres ont été retenues aux endroits ci-dessous jusqu'aux dates indiquées ci-dessous. Après cette date, les hôtels ne prendront vos réservations que s'il reste des chambres. Les tarifs sont par nuit, par personne, et sont indiqués en devises canadiennes.

Hôtel Delta Bessborough

601 Spadina Crescent, Saskatoon, Saskatchewan S7K 3G8

Arrivée : 15:00; départ : 12:00

Taxes applicables: TPS (7%), taxe provinciale (6%)

Réserver au plus tard le 30 avril 2001

Code de groupe: GFMATH

Téléphone: 306-244-5521 sans frais: 800-268-1133

FAX: 306-665-7262 Site Web: www.deltahotels.com

Tarifs: 99\$, chambre standard, 1 ou 2 personnes

114\$, service signature, 1 ou 2 personnes

165\$, chambre-salon, 1 ou 2 personnes

10\$ supplémentaire pn pour chambre "Riverview"

15\$ supplémentaire pn pour chambre "Business Zone"

L'hôtel offre aussi d'autres options,

dont 3 chambres accessibles en chaise roulante

(gratuit pour les enfants de moins de 18 ans

qui partagent la chambre de leurs parents)

Hôtel Park Town

924 Spadina Crescent East, Saskatoon, Saskatchewan S7K 3H5

Arrivée : de 14h à 15h; départ : 12h

Taxes applicables: TPS (7%), taxe provinciale (6%)

Réserver au plus tard le 30 avril 2001

Code de groupe: 2145 - Canadian Mathematical Society

Téléphone: 306-244-5564 sans frais: 800-667-3999

FAX: 306-665-8698 courriel: reservations@parktownhotel.com

Site Web: <http://www.parktownhotel.com>

Tarifs: 72\$, chambre standard, 1 ou 2 personnes
 85\$, chambre "Riverview Executive", 1 personne
 93\$, chambre "Riverview Executive", 2 personnes
 150\$, suite avec 2 chambres, 1 ou 2 personnes
 (gratuit pour les enfants de moins de 16 ans
 qui partagent la chambre de leurs parents)

Voyageur Place, Résidence U de la S

Conference Office, 131 Saskatchewan Hall, 91 Campus Drive
 University of Saskatchewan, Saskatoon SK. S7N 5E8
 Arrivée/départ : Il n'y a pas d'heure officielle d'arrivée ou de départ.
 Veuillez svp fournir vos heures d'arrivée et de départ à l'Université.
 Taxes applicables: TPS (7%)
Réserver au plus tard le 18 mai 2001 Code de groupe: CMS
 Téléphone: 306-966-8600 FAX: 306-966-8599
 Courriel: conference_catering@usask.ca
<http://Adminsrv.usask.ca/csd> (choisir: Conference and Catering)
 Tarifs: 33,97\$ (TPS incl) pp/pn 1 pers, incluant le petit déjeuner
 28,62\$ (TPS incl) pp/pn 2 pers, incluant le petit déjeuner
 6,42\$ frais admin pour chaque réservation
 Entretien ménager quotidien. Salle de bain partagée.
 De base : literie, serviettes, savon

Vous êtes priés de faire vos propres réservations. Les tarifs préférentiels s'appliquent aussi aux deux jours qui précèdent et qui suivent la Réunion. S'il y a lieu et pour que votre chambre soit prise dans le groupe de chambres réservées, veuillez donner le code de groupe.

Réservations et annulations: À l'Hôtel Delta Bessborough, les chambres sont réservées jusqu'à 16 h le jour de l'arrivée, à moins que la réservation ne soit garantie par chèque, mandat poste ou une carte de crédit reconnue. Les dépôts sont remboursables si la réservation est annulée au moins 48 heures avant la date d'arrivée prévue. Sinon, la première nuit sera facturée à la personne qui a réservé la chambre.

À l'Hôtel Parktown, les chambres sont réservées jusqu'à 18 h le jour de l'arrivée, à moins que la réservation ne soit garantie par chèque, mandat poste ou une carte de crédit reconnue. Les dépôts sont remboursables si la réservation est annulée avant 12 h la date d'arrivée prévue. Sinon, la première nuit sera facturée à la personne qui a réservé la chambre.

Résidences de l'U de la S : Toute réservation doit être accompagnée du paiement en entier. Les chèques postdatés ne seront pas acceptés et seront retournés. L'U. de la S. accepte les paiements par chèque, VISA ou MasterCard. Le nombre de chambres pour une personne est limité; s'il n'en reste plus, on vous attribuera une chambre pour deux. Toute demande d'annulation doit se faire par écrit et être envoyée au bureau de la Réunion avant le 18 mai (pour un remboursement intégral). Les demandes reçues après cette date sont assujetties à des frais d'annulation de 20 \$. Aucun rabais n'est accordé pour les arrivées tardives ou les départs hâtifs.

Services de garde

Le Delta Bessborough peut recommander des gardiens ou des gardiennes. Il faut cependant en faire la demande assez longtemps d'avance. L'Hôtel Park Town et les résidences de l'université n'offrent pas de services de garde. D'autres renseignements sur les services de garde seront publiés sur notre site Web au fur et à mesure qu'ils nous parviendront.

Déplacements

Ville de Saskatoon : Vous trouverez des renseignements détaillés sur la ville de Saskatoon (renseignements touristiques, température et climat locaux, cartes de la ville et des attractions touristiques, etc.) sur les sites Web suivant: <http://math.usask.ca/fvk/cmsinfo.htm> <http://www.city.saskatoon.sk.ca/tourism>

Stationnement : Les participants qui logent à l'Hôtel Delta Bessborough peuvent garer leur voiture au coût de 6 \$ la nuit (8 \$ avec service voiturier). Ceux qui restent au Robsonstrasse ont accès gratuitement au stationnement. Les participants qui logent aux résidences de l'Université ont accès gratuitement au stationnement Z (3 blocs des résidences).

Remerciements

Nous remercions les organismes suivants de leur soutien financier :

- le Département de mathématiques et de statistique et le fonds pour conférenciers invités de l'Université de la Saskatchewan
- le Comité du programme national (programme conjoint du Centre de recherches mathématiques, de l'Institut Fields et de l'Institut Pacific)

La Société mathématique du Canada tient à remercier les membres du Comité de coordination pour l'organisation de cette Réunion.

Comité de coordination

Programme Président et coordinateur : *Keith Taylor (Saskatchewan)* Brian Alspach (Regina), M. Bennett (Illinois U-C), S. Berman (Saskatchewan), Peter Borwein (Simon Fraser), Patrick Brown (Saskatchewan), A. Chigogidze (Saskatchewan), Florence Glanfield (Saskatchewan), Denis Hanson (Regina), Bradd Hart (McMaster/Institut Fields), F.-V. Kuhlmann (Saskatchewan), S. Kuhlmann (Saskatchewan), Anthony T. Lau (Alberta), Judith MacDonald (Regina), Chris Soteros (Saskatchewan), J. Szmigielski (Saskatchewan), E. Tymchatyn (Saskatchewan), S.G. Whittington (Toronto), Graham Wright (SMC, d'office).

Logistique Président du comité local : *Chris Soteros (Saskatchewan)* Monique Bouchard (SMC, d'office), Murray Bremner (Saskatchewan), Yvonne Cuttle (Saskatchewan), Franz-Viktor Kuhlmann (Saskatchewan).

REGISTRATION FORM - CMS SUMMER MEETING 2001
June 2-4, 2001 - University of Saskatchewan, Saskatoon, Saskatchewan

Deadlines: Preregistration for reduced rates payment by May 1
Arrival of payments to be processed before the meeting May 23
Cancellation (refund less \$40 penalty) May 23

LASTNAME:	FIRSTNAME:	CMS ID #
Institution (for badge):		
Mailing Address: <input type="checkbox"/> home - <input type="checkbox"/> office	Voluntary Information: <input type="checkbox"/> Male <input type="checkbox"/> Female	
Telephone:	Email:	
Arrival date:	Departure date:	
PLEASE MAKE YOUR HOTEL RESERVATIONS. DEADLINE : Delta/ParkTown: APR 30 U of S: MAY 18 Where will you be staying? <input type="checkbox"/> Delta Bessborough <input type="checkbox"/> Park Town <input type="checkbox"/> U of S Residence <input type="checkbox"/> No housing required Special diets: <input type="checkbox"/> Kosher <input type="checkbox"/> Vegetarian <input type="checkbox"/> Diabetic <input type="checkbox"/> Low fat <input type="checkbox"/> Milk allergy <input type="checkbox"/> Nut allergy <input type="checkbox"/> Other: I am : <input type="checkbox"/> a Plenary Speaker <input type="checkbox"/> a Prize Recipient <input type="checkbox"/> a Session Speaker <input type="checkbox"/> an Organizer <input type="checkbox"/> a delegate <input type="checkbox"/> I would like to deliver a contributed paper. DEADLINE (ABSTRACT & REGISTRATION) : APRIL 2 My abstract: <input type="checkbox"/> is enclosed <input type="checkbox"/> will follow <input type="checkbox"/> sent via website or email DEADLINE : APRIL 2 For contributed papers, please remember that we cannot consider the abstract until registration fees are received. Memberships: <input type="checkbox"/> CMS <input type="checkbox"/> CAIMS <input type="checkbox"/> CORS <input type="checkbox"/> CSHPM <input type="checkbox"/> SSC <input type="checkbox"/> AMS <input type="checkbox"/> MAA <input type="checkbox"/> SIAM <input type="checkbox"/> AWM (check all that apply) <input type="checkbox"/> University professor <input type="checkbox"/> Elementary teacher <input type="checkbox"/> High school teacher <input type="checkbox"/> College teacher <input type="checkbox"/> CEGEP teacher <input type="checkbox"/> Student <input type="checkbox"/> Postdoctoral fellow <input type="checkbox"/> Retired <input type="checkbox"/> Unemployed PLEASE INDICATE WHICH SPECIAL OR RELATED EVENT(S) YOU MIGHT BE ATTENDING <input type="checkbox"/> Public Lecture PLEASE INDICATE WHICH SESSION(S) YOU MIGHT BE ATTENDING <input type="checkbox"/> Abstract Harmonic Analysis <input type="checkbox"/> Geometric Topology <input type="checkbox"/> Graph Theory <input type="checkbox"/> Lie theory/representations <input type="checkbox"/> Mathematics Education <input type="checkbox"/> Matrix Analysis <input type="checkbox"/> Model theoretic algebra <input type="checkbox"/> Number Theory <input type="checkbox"/> Lattice Models <input type="checkbox"/> Scattering theory <input type="checkbox"/> Contributed Papers		

Don't forget to purchase your ticket for the banquet !!

All categories also include a ticket to all lunches.

Please circle one of the registration categories in the chart below	Before May 1	After May 1
Plenary Speaker / Prize Lecturer	\$ 0	\$ 0
Session Speakers (choose this or other category, whichever is less)	200	200
Organizers (choose this or other category, whichever is less)	135	135
Non-members	400	520
CMS/AMS/MAA members with grants	270	350
CMS/AMS/MAA members without grants	135	175
One-day fee	135	175
Postdocs, retired	100	130
Students, unemployed	50	65
Banquet, Sunday, June 3 (free for plenary/prize speakers)	50	50

Registration: \$	#	Banquet = \$	TOTAL \$
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Payment method: Cheque (payable to CMS) VISA Master Card Purchase Order (attached)

Credit Card #	Expiry:
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If this is your credit card, please print your name as it appears on the card and sign your name. If this is not your card, please print holder's name as it appears on the credit card and have the card holder sign.

Print:	Signature:
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Send completed form with payment to:

CMS Executive Office, 577 King Edward, POB 450, Station A, Ottawa, ON CANADA K1N 6N5

Phone: 613-562-5702 FAX 613-565-1539 (Please use the FAX # for credit card payments only.)

Don't forget to allow ample time for your registration to reach us before the deadline date.

FORMULAIRE D'INSCRIPTION - ÉTÉ 2001
2-4 juin 2001 - Université de la Saskatchewan, Saskatoon (SK)

Dates importantes:	Préinscription à prix réduit	paiement avant le 1 mai
	Arrivée de paiement pour compléter l'inscription avant la réunion	23 mai
	Annulation - Préinscription (remboursement moins 40\$)	23 mai

NOM:	PRÉNOM:	No. SMC
Établissement (pour le "badge"):		
Adresse postale: <input type="checkbox"/> domicile - <input type="checkbox"/> bureau		Information optionnelle:
		<input type="checkbox"/> Homme
		<input type="checkbox"/> Femme
Téléphone:	Courier él:	
Date d'arrivée:	Date de départ:	
VOUS ÊTES PRIÉS DE FAIRE VOS PROPRES RÉSERVATIONS D'HÔTEL.		
DATE LIMITÉE : Delta/Park Town: 30 AVRIL U de la S: 18 MAI		
Veuillez indiquer votre choix d'hôtel <input type="checkbox"/> Delta Bessborough <input type="checkbox"/> Park Town <input type="checkbox"/> Résidence U de la S <input type="checkbox"/> non-requise		
<input type="checkbox"/> Kosher <input type="checkbox"/> Végétarien <input type="checkbox"/> Diabétique <input type="checkbox"/> Pauvre en mat grasses <input type="checkbox"/> Allergie-lait <input type="checkbox"/> Allergie-noix <input type="checkbox"/> Autre:		
Je suis un: <input type="checkbox"/> organisateur <input type="checkbox"/> conférencier primé <input type="checkbox"/> conf. principal <input type="checkbox"/> conf. de séance <input type="checkbox"/> participant		
<input type="checkbox"/> J'aimerais présenter une communication. DATE LIMITÉE (RÉSUMÉ ET INSCRIPTION) : 2 AVRIL		
Mon résumé <input type="checkbox"/> est inclus <input type="checkbox"/> suivra <input type="checkbox"/> suivra par site web ou courriel		
Nous demandons à toute personne désirant présenter une communication		DATE LIMITÉE : 2 AVRIL
de joindre au résumé son formulaire et le règlement de ses frais d'inscription.		
Adhésions: <input type="checkbox"/> SMC <input type="checkbox"/> SCMIA <input type="checkbox"/> SCRO <input type="checkbox"/> SCHPM <input type="checkbox"/> SSC <input type="checkbox"/> AMS <input type="checkbox"/> MAA <input type="checkbox"/> SIAM <input type="checkbox"/> AWM		
Cocher <input type="checkbox"/> Professeur d'université <input type="checkbox"/> Enseignant - élém. <input type="checkbox"/> Enseignant - secondaire <input type="checkbox"/> Enseignant - Collège s.v.p. <input type="checkbox"/> Enseignant - CÉGEP <input type="checkbox"/> Étudiant(e) <input type="checkbox"/> Postdoc <input type="checkbox"/> À la retraite <input type="checkbox"/> Sans-emploi		
VEUILLEZ INDICHER À QUEL(S) ÉVÉNEMENT(S) VOUS PARTICIPEREZ		
<input type="checkbox"/> Conférence publique		
VEUILLEZ INDICHER À QUELLE(S) SÉANCE(S) VOUS PARTICIPEREZ		
<input type="checkbox"/> Analyse harmonique <input type="checkbox"/> Topologie géométrique <input type="checkbox"/> Théorie des graphes <input type="checkbox"/> Théorie de Lie/représ.		
<input type="checkbox"/> Enseignement des maths <input type="checkbox"/> Analyse matricielle <input type="checkbox"/> Théorie des modèles <input type="checkbox"/> Théorie des nombres		
<input type="checkbox"/> Modèles de réseaux <input type="checkbox"/> Systèmes intégrables <input type="checkbox"/> Communications libres		

N'oubliez pas d'acheter votre billet pour le banquet !!
Un billet pour tous les lunchs, y compris le lunch des délégués, est inclus dans toutes les catégories d'inscription.

Veuillez encercler la catégorie d'inscription choisie	Avant le 1 mai	Après le 1 mai
Conférenciers principaux / conférenciers primés	0 \$	0 \$
Conférenciers (choisissez cette catégorie ou une autre:montant moins élevé)	200	200
Organisateurs(choisissez cette catégorie ou une autre:montant moins élevé)	135	135
Non-membres	400	520
Membres SMC/AMS/MAA avec subvention	270	350
Membres SMC/AMS/MAA sans subvention	135	175
Frais d'une journée	135	175
Postdocs, retraités	100	130
Étudiants, sans-emploi	50	65
Banquet, dimanche 3 juin (gratuit pour les conférenciers principaux / primés)	50	50

Inscription: \$ | # Banquet = \$ | TOTAL

Chèque (au nom de la SMC) VISA Master Card Bon de commande

Carte de crédit #: _____ Date d'expiration: _____

Veuillez envoyer ce formulaire et votre paiement à :

Bureau de la SMC, 577 King Edward, CP 450, Succursale A, Ottawa, ON CANADA K1N 6N5

Bureau de la SMC, 577 King Edward, CP 450, Succursale A, Ottawa, ON CANADA K1N 6N5
Téléphone: (613) 562-5702 Télécopieur: (613) 565-1539 (FAX pour paiements par carte de crédit seulement.)

Telephone: (613) 562-5702 Telecopieur: (613) 565-1539 (FAX pour paiements par carte de crédit seulement)

N'oubliez pas d'envoyer votre inscription assez longtemps à l'avance.

N'oubliez pas d'envoyer votre inscription assez longtemps à l'avance pour qu'elle nous parvienne avant la date limite!

CALL FOR NOMINATIONS / APPEL DE CANDIDATURES

Associate Editors - CJM and CMB / Rédacteurs associés - JCM et BCM

The Publications Committee of the CMS solicits nominations for three Associate Editors for the Canadian Journal of Mathematics (CJM) and the Canadian Mathematical Bulletin (CMB). The appointment will be for five years beginning January 1, 2002. The continuing members (with their end of term) are below.

CJM Editors-in-Chief / Rédacteurs-en-chef du JCM :

Henri Darmon and/et Niky Kamran, McGill (2006)

Rédacteurs-en-chef du BCM/ CMB Editors-in-Chief:

James Lewis, Arturo Pianzola; Alberta and/et Noriko Yui; Queen's (2005)

Le comité des publications de la SMC sollicite des mises en candidatures pour trois postes de rédacteur associé du Journal canadien de mathématiques (CJM) et Bulletin canadien de mathématiques (BCM). Le mandat sera de cinq ans et débutera le 1 janvier 2002. Les membres qui continuent suivent.

Associate Editors/Rédacteurs associés :

J. Bland, Toronto (2002)	M. Barlow, UBC (2004)
F. Lalonde, UQAM (2003)	P. Borwein, SFU (2004)
J. Millson, Maryland (2003)	N. Pippenger, UBC (2004)
C. Sulem, Toronto (2003)	G. Elliott, Toronto (2005)
	F. Shahidi, Purdue (2005)

The deadline for the submission of nominations is **April 15, 2001**. Nominations, containing a curriculum vitae and the candidate's agreement to serve should be sent to the address below.

L'échéance pour proposer des candidats est **le 15 avril 2001**. Les mises en candidature, accompagnés d'un curriculum vitae ainsi que du consentement du candidat(e), devrait être envoyées à l'adresse ci-dessous.

James A. Mingo
Chair-CMS Publications Committee
Président—Comité des publications
Department of Mathematics and Statistics
Queen's University, Kingston
Ontario K7L 3N6

Coxeter-James / Jeffery-Williams / Krieger-Nelson Prize Lectureships Prix de conférence Coxeter-James / Jeffery-Williams / Krieger-Nelson

The CMS Research Committee is inviting nominations for three prize lectureships.

The Coxeter-James Prize Lectureship recognizes outstanding young research mathematicians in Canada. The selected candidate will deliver the prize lecture at the Winter 2001 Meeting in Toronto, Ontario. Nomination letters should include at least three names of suggested referees.

The Jeffery-Williams Prize Lectureship recognizes outstanding leaders in mathematics in a Canadian context. The prize lecture will be delivered at the Summer 2002 Meeting in Québec, Québec. Nomination letters should include three names of suggested referees.

The Krieger-Nelson Prize Lectureship recognizes outstanding female mathematicians. The prize lecture will be delivered at the Summer 2002 Meeting in Québec, Québec. Nomination letters should include three names of suggested referees.

The deadline for nominations is **September 1, 2001**. Let-

ters of nomination should be sent to:

Le Comité de recherche de la SMC invite les mises en candidatures pour les trois prix de conférence de la Société, la Conférence Coxeter-James, la Conférence Jeffery-Williams et la Conférence Krieger-Nelson.

Le prix Coxeter-James rend hommage à l'apport exceptionnel des jeunes mathématiciens au Canada. Le candidat choisi présentera sa conférence lors de la réunion d'hiver 2001 à Toronto (Ontario). Les lettres de mises en candidature devraient inclure les noms d'au moins trois répondants possibles.

Le prix Jeffery-Williams rend hommage à l'apport exceptionnel des mathématiciens d'expérience au Canada. La Conférence sera présentée lors de la réunion d'été 2002 au Québec, (Québec). Les lettres de mises en candidature devraient inclure les noms d'au moins trois répondants possibles.

Le prix Krieger-Nelson rend hommage à l'apport excep-

tionnel des mathématiciennes au Canada. La Conférence sera présentée lors de la réunion d'été 2002 au Québec, (Québec). Les lettres de mises en candidatures devraient inclure les noms d'au moins trois répondants possibles.

Douglas Stinson, CMS Research Committee / Comité de recherche de la SMC
Department of Pure Mathematics, University of Waterloo
200 University Ave West, Waterloo, ON Canada N2L 3G1

La date limite pour les mises en candidatures est **le 1 septembre 2001**. Les lettres de mises en candidatures devraient être envoyées à :

2001 Adrien Pouliot Award /Prix Adrien-Pouliot 2001

Nominations of individuals or teams of individuals who have made significant and sustained contributions to mathematics education in Canada are solicited. Such contributions are to be interpreted in the broadest possible sense and might include: community outreach programmes, the development of a new program in either an academic or industrial setting, publicizing mathematics so as to make mathematics accessible to the general public, developing mathematics displays, establishing and supporting mathematics conferences and competitions for students, etc.

Nominations must be submitted on the "Nomination Form" available from the CMS Office. To assure uniformity in the selection process, please follow the instructions precisely. Documentation exceeding the prescribed limits will not be considered by the Selection Committee. Individuals who made a nomination in 2000 can renew this nomination by simply indicating their wish to do so by the deadline date. Only materials updating the 2000 Nomination need be provided as the original has been retained.

Nominations must be received by the CMS Office no later **April 30, 2001**. Please send six copies of each nomination to the following address:

The Adrien Pouliot Award / Le Prix Adrien-Pouliot
Canadian Mathematical Society / Société mathématique du Canada
577 King Edward, Suite 109, P.O. Box 450, Station A / C.P. 450, Succ. A
Ottawa, Ontario K1N 6N5

Nous sollicitons la candidature de personnes ou de groupe de personnes ayant contribué de façon importante et soutenue à des activités mathématiques éducatives au Canada. Le terme "contributions" s'emploie ici au sens large; les candidats pourront être associés à une activité de sensibilisation, un nouveau programme adapté au milieu scolaire ou à l'industrie, des activités promotionnelles de vulgarisation des mathématiques, des initiatives, spéciales, des conférences ou des concours à l'intention des étudiants, etc.

Les candidatures doivent nous être transmises via le "Formulaire de mise en candidature" disponible du bureau de la direction de la SMC. Pour garantir l'uniformité du processus de sélection, veuillez suivre les instructions à la lettre. Toute documentation excédant les limites prescrites ne sera pas considérée par le comité de sélection. Il est possible de renouveler une mise en candidature présentée l'an dernier, pourvu que l'on en manifeste le désir avant la date limite. Dans ce cas, le présentateur n'a qu'à soumettre des documents de mise à jour puisque le dossier original a été conservé.

Les mises en candidature doivent parvenir au bureau de la SMC avant **le 30 avril 2001**. Veuillez faire parvenir vos mises en candidature en six exemplaires à l'adresse suivante:

CMS Distinguished Service Award / Prix de la SMC pour service méritoire

In 1995, the Society established this award to recognize individuals who have made sustained and significant contributions to the Canadian mathematical community and, in particular, to the Canadian Mathematical Society.

Nominations should include a reasonably detailed rationale and be submitted by **March 31, 2001**, to the address below.

En 1995, la Société mathématique du Canada a créé un nouveau prix pour récompenser les personnes qui contribuent de façon importante et soutenue à la communauté mathématique canadienne et, notamment, à la SMC.

Pour les mises en candidature prière de présenter des dossiers suffisamment détaillés et de les faire parvenir, le **31 mars 2001** au plus tard, à l'adresse ci-dessous.

Selection Committee / Comité de sélection
Distinguished Service Award / Prix pour service méritoire
577 King Edward, Suite 109, C.P./P.O. 450, Succursale / Station A
Ottawa, Ontario K1N 6N5 Canada

2001 ELECTIONS / ÉLECTIONS 2001
Initial Slate and Call for Additional Nominations
Candidats proposés et appel aux mises en candidature supplémentaires

The Nominating Committee wishes to announce its initial list of candidates for the 2001 election. Each candidate named has agreed to stand for the position indicated and to furnish the committee with the biographical information requested. **Further nominations are sought** and will be accepted by the Nominating Committee provided: (i) that each such person is supported in writing by at least five (5) other members of the Society; (ii) that the person has given written acceptance to stand for office and to supply the biographical information which will be requested by the Nominating Committee and (iii) that the information sought in (i) and (ii) is received by **February 23, 2001**.

Additional nominations together with supporting materials should be sent to the address below:

Nominating Committee Chair / Président du Comité des mises en candidatures
577 King Edward, Suite 109,
C.P./P.O. 450, Succursale / Station A
Ottawa, Ontario, K1N 6N5 Canada

INITIAL SLATE / CANDIDATS PROPOSÉS

**President Elect / Président élu (2001-2002),
President / Président (2002-2004) and
Past President / Président sortant (2004-2005):**

Christiane Rousseau (Montréal)

Executive Committee / Comité exécutif (2001-2003)

Vice-Presidents / Vice-présidents:

Western Provinces and Territories / Provinces de l'ouest et territoires: Ontario: Quebec / Québec: Atlantic Provinces / Provinces de l'atlantique:	George Bluman (British Columbia) James Mingo (Queen's) Bernard Hodgson (Laval) Edgar Goodaire (Memorial)
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Board of Directors / Conseil d'administration (2001-2005)

Atlantic / l'Atlantique (2 to be elected / 2 à élire)

Ilya Blum (Mount Saint Vincent)
Dan Kucerovsky (UNB)
Gordon MacDonald (UPEI)
Andrew Punnen (UNB–Saint John)

Damien Roy (Ottawa)

West / l'Ouest (3 to be elected / 3 à élire)

Malgorzata Dubiel (SFU)
Lee Keener (UNBC)
Laurent Marcoux (Alberta)
Ortrud Oellermann (Winnipeg)

Quebec / Québec (2 to be elected / 2 à élire)

Galia Dafni (Concordia)
Eyal Goren (McGill)
Tomasz Kaczynski (Laval)

At large / de l'ensemble des membres (1 to be elected / 1 à élire)

Michael Overton (Courant Institute)

Ontario (3 to be elected / 3 à élire)

Anthony Bonato (Laurier)
Richard Caron (Windsor)
Kathryn Hare (Waterloo)

Members elected in 1999 and continuing on the Board of Directors until June 2003 / Membres élus en 1999 et qui continuent au conseil d'administration jusqu'au juin 2003

Atlantic / l'Atlantique

Tom Archibald (Acadia)
Peter Booth (Memorial)

Quebec / Québec

Henri Darmon (McGill)
Tomas Ransford (Laval)

Ontario

Lisa Jeffrey (Toronto)
Peter Cass (Western)

David Wehlau (RMC)

West / l'Ouest

George Bluman (UBC)
Fereidoun Ghahramani (Manitoba)
Judith McDonald (Regina)

At large / de l'ensemble des membres

John Chada (Pittsburgh)

CALL FOR SESSIONS / APPEL AUX COMMUNICATIONS

Additional self-supported sessions play an important role in the success of the Society's semi-annual meetings. The CMS welcomes and invites proposals for self-supported sessions for **Summer 2002 (Université Laval, Québec, Québec)**.

Proposals should include a brief description of the focus and purpose of the session, the number and expected length of the talks, as well as the organizer's name, complete address, telephone number, e-mail address, etc. Although such sessions would not usually have a plenary speaker, any special situations are left to the discretion of the Meeting Director.

These additional sessions will be incorporated with the other sessions, time blocks allocated by the Meeting Director and advertised in the *CMS Notes*, on *Camel* and, if possible, in the *Notices of the AMS* and in publications of other societies. Speakers in these additional sessions will be requested to submit abstracts which will be published in the meeting programme.

The following provides information on the sessions confirmed to date.

Those wishing to organize a session should send a proposal to the Meeting Director by the deadline below.

Les sessions autofinancées contribuent de plus en plus au

succès des réunions semi-annuelles de la Société. La SMC encourage ces initiatives et invitent les organisateurs(trices) potentiel(les) à soumettre leurs projets pour ce type de sessions à l'occasion de **la réunion d'été 2002 (Université Laval, Québec, Québec)**.

Les projets doivent inclure une brève description du thème et de la motivation de la session, le nombre et la durée des communications prévues, ainsi que le nom et les coordonnées physiques et électroniques de l'organisateur(trice). Bien qu'en général il n'y ait pas de conférences plénières de prévues pour ces sessions, les situations particulières sont laissées à la discréption du directeur de la réunion.

Ces sessions additionnelles feront partie du programme, leur horaire sera établi par le directeur de la réunion, et elles seront publicisées dans les *Notes de la SMC*, sur *Camel* et, si possible, dans les *Notices de l'AMS* et les publications d'autres sociétés. Les conférenciers devront soumettre un résumé de leur communication, qui paraîtra dans le programme de la réunion.

Toute personne désireuse d'organiser une session doit faire parvenir un projet au directeur de réunion avant la date ci-dessous.

Deadline: April 15, 2001 / Date limite : le 15 avril 2001

Analysis / Analyse

Thomas Ransford (Laval)

Arithmetic Algebraic Geometry / Géométrie algébrique arithmétique

Kumar Murty (Toronto)

Differential Geometry / Géométrie différentielle

Jingyi Chen (UBC)

Graph Theory / Théorie des graphes

Brian Alspach (Simon Fraser)

Claude Levesque, Meeting Director / Directeur de la réunion

Département de mathématiques et statistique
Université Laval

Faculté des sciences et de génie
Québec, Québec Canada G1K 7P4

Tel: (418) 656-5660 Fax: (418) 656-2817
e-mail: cl@mat.ulaval.ca

NEWS FROM DEPARTMENTS

University of Calgary, Calgary, AB

Appointments: Alexander Brudnyi (applied mathematics), Christiane Lemieux (applied mathematics), Tony Ware (Research Associate, Mathematical Financial Laboratory), Clifton Cunningham (pure mathematics).

Awards: Rita Aggarwala, Leaders of Tomorrow ASTech (Alberta Science and Technology) Award, 2000.

Retirement: D. Paul Johnson (August 2000).

Memorial University of Newfoundland, St. John's, NF

Awards/Distinctions: Serpil Kocabiyik, Petro-Canada Young Innovators Award; Rolf Rees, Hall Medal; Danny Summers, University Research Professor.

Simon Fraser University, Burnaby, BC

Appointments: Stephen Choi (Assistant Professor, pure mathematics, September 2001), Adrian Lewis (Professor, pure mathematics, May 2001).

Promotions: Keith Promislow, (Tenure and promotion to Associate Professor, September 2000), Randy Sitter (Professor, September 2000).

Award: Carl Schwarz, statistics, Faculty of Science Excellence in Teaching Award.

Visitors: J.Y. Yuan (Centro Politecnico in Curitiba, Brazil, numerical analysis/ scientific computing), Jim Verner (Queen's Computer Science Dept., numerical analysis/scientific computing).

Other News: Alistair Lachlan has been elected as the first Chair of the new Department of Mathematics as of May 1, 2001 and Charmaine Dean will be the Chair of the new Department of Statistics and Actuarial Science for the summer term.

University of Toronto, Toronto, ON

Promotions: Eckhard Meinrenken (Associate Professor, July 2000), Fiona Murnaghan (Professor, July 2000).

Appointments: Robert Almgren (Associate Professor, Joint position with the Department of Computer Science in algorithmic mathematics and theoretical computer science), Caterina (Katia) Consani (Assistant Professor, algebra, geometry and number theory), Mikhail Kapranov (Professor, 1st holder of the Ted Mossman Chair in Mathematics, algebra, algebraic geometry and category theory), Michael Goldstein (Professor, Applied Math/Analysis at University of Toronto at Scarborough, spectral theory of Schroedinger operators and localization), Michael Yampolsky (Assistant Professor, Applied

Math/Analysis at University of Toronto at Erindale, holomorphic and low-dimensional analysis).

Early Retirements: Mustafa Akcoglu (July 2000), Steve Halperin (August 2000), James McCool - effective July 2000

Resignations: Maciej Zworski (June 2000), Mark Spivakovsky's (December 31, 2000).

Awards/Distinctions: James Arthur, Wilbur Lucius Cross medal of the Yale Graduate School Alumni Association at the Yale Graduate School convocation May 2000, and a Guggenheim Fellowship; Marie Bachtis, Faculty of Arts and Science Dean's Outstanding Student Life Award; Dietrich Burbulla, Faculty of Arts and Science Outstanding Teaching Award for excellence and innovation in teaching; John Friedlander, 1999-2000 Principal's Research Award, awarded by the University of Toronto at Scarborough for excellence in research in any field; Peter Greiner, 1999-2000 APUS/SAC Undergraduate Teaching Award; Lisa Jeffrey, CMS Krieger-Nelson Prize, CMS summer meeting 2001 and 2000 McLean Award; Robert McCann, Premier's Research Excellence Award (PREA), July 2000; Eckhard Meinrenken, PREA, December 2000; Petya Pushkar, Prize of the Moscow Mathematical Society; Arthur Sherk, 2000 CMS Distinguished Service Awards; Peter Rosenthal, 2000 Ludwik and Estelle Jus Memorial and Human Rights Prize, awarded by the University of Toronto Alumni Association; I. Michael Sigal, 2000 CRM/Fields Institute Prize.

Other News: In September 1999 Steve Halperin accepted the position of Dean of the College of Computer, Mathematical and Physical Sciences at the University of Maryland. Although the mathematics department at the University of Toronto and the Canadian mathematical community have suffered a decade of unprecedeted cutbacks and challenges, Steve's drive, vision and hard work have helped ensure that we have emerged from this era stronger than we were before. He has helped our department forge a strong sense of purpose and identity. We all owe him a tremendous debt of gratitude. The Steve Halperin Graduate Scholarship in Science and Technology has been established in his honour. This is a most fitting tribute to Steve and a lasting recognition of the tremendous time and energy which he devoted to building our department and university. (From letter signed by J. Bland).

OBITUARIES / AVIS DE DÉCÈS



Leonard P. Edwards (1905–2000)

Dr. Leonard P. Edwards, emeritus Professor of Mathematics at The University of New Brunswick, died Friday Nov. 24 at the age of 95. Dr. Edwards began teaching in a one-room school in Arichat, Nova Scotia, when he was only 15. After attending Normal School in Truro he became a principal at Joggins Mines N.S. at the age of 19. He received a BA and MA from Acadia in 1937 and 1938 respectively. He joined the UNB Mathematics Department in 1946, and by 1954, was promoted to Professor. He was appointed Head of the department in 1966, a position he held for four years during which time the department experienced considerable growth. He retired in 1973, but continued to tutor mathematics students until the age of 90, giving him an incredible 75 year teaching career. Dr Edwards was known as THE mathematics teacher at UNB for generations of students, a reputation recognized by his receiving the UNB award for excellence in teaching

the first year it was offered in 1972. Dr. Edwards played a considerable role in high school mathematics curricula in Nova Scotia and New Brunswick, and for many years he was associated with the Canadian Mathematical Congress Summer School programme for teachers. He was awarded the honorary degree of Doctor of Civil Law at the University of King's College in Halifax in 1973 and he was made Professor Emeritus at UNB in 1975.

Those who wish may contribute to a memorial fund which will be used to create a scholarship in his memory. Cheques may be made payable to UNB and addressed to the Department of Development, P.O. Box 4400 Fredericton, N.B. E3B 5A3.

Robert J. Torrence

Robert J. Torrence, Professor and a member of the Dept. of Mathematics and Statistics, University of Calgary, for the last 32 years, passed away March 9, 2000. Bob Torrence had a long and successful research career in general relativity and other areas of mathematical physics. He did his undergraduate work at Carnegie Mellon University in Pittsburgh, PA and received a PhD degree in theoretical physics from the University of Pittsburgh in 1965. Before coming to U of C in 1968, he held postdoctoral positions with some of the leading relativists of the time at Syracuse University in New York and the Centro de Investigacion y

de Estudios Avanzados del Instituto Politecnico Nacional in Mexico City. Bob was one of the early contributors to our understanding of the properties of gravitational radiation. One of his results published in 1968 remains of particular interest to those presently hoping to observe gravitational radiation by means of long baseline interferometers being constructed in several countries in the world today. Motivated by his studies of gravitational radiation scattering, he invented a general method of decomposing continuously reflecting waves into convergent infinite sums of one-way waves. The method provided a nice physical interpretation of some aspects of scattering problems and was successfully used to analyze radiation scattering by black holes. In recent years he related some of the modern results on integrable systems to problems in general relativity and wave equations.

In addition to his scientific expertise, Bob was highly informed in many other areas. He was a great source of literary, political, and historical information and analysis to his many friends, and he had an uncanny ability to find and articulate the fundamental features of any issue. He was well known among students and faculty for his careful teaching and his skill in presenting elementary mathematics in ways which provided the most efficient transition to advanced topics. His intellect and friendliness will be greatly missed by all who knew him.

Did you know? ...

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Saviez-vous que? ...

Le Bureau administratif de la SMC est situé sur le campus de l'Université d'Ottawa. Toute correspondance provenant d'une université ontarienne peut être envoyée **gratuitement** via IUTS.

Mathematical Biology (MB 2001)

The Department of Mathematical Sciences, University of Alberta, invites applications for an Assistant Professor tenure track position in Mathematical Biology. We are looking for a person with a superb research record in complex biological systems involving partial differential equation models or related nonlinear spatial models. The successful applicant will interact with related groups in Mathematical Sciences (including an expanding mathematical biology group), as well as with other mathematical biology researchers outside the Department. We are looking for a highly motivated person with excellent communication and teaching skills, and a commitment to undergraduate and graduate education. Current research strengths in mathematical biology include ecology, epidemiology and physiology. Applicants must have a PhD in an area of Mathematical Biology. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered. Applications should include a curriculum vitae, a research plan, and a teaching dossier. Candidates should arrange for at least three confidential letters of reference to be sent to: A.H. Rhemtulla, Chair, Department of Mathematical Sciences, University of Alberta, Edmonton, Alberta, T6G 2G1, Canada. The closing date for applications is Friday, March 16, 2001 or until a suitable candidate is found. Early applications are encouraged. For more information about the Department and our University, please see our web page: www.math.ualberta.ca. The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP). The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

UNIVERSITY OF MANITOBA – WINNIPEG, MANITOBA DEPARTMENT OF MATHEMATICS

Applications are invited for one full-time tenure-track position, subject to final budgetary approval, at the Assistant Professor level, commencing July 1, 2001, or as soon as possible thereafter. Minimum qualifications are a Ph.D. in mathematics, evidence of strong research potential, and a strong commitment to teaching at the post-secondary level. Applications in all areas of pure and applied mathematics will be considered. Duties will include undergraduate and graduate teaching and supervision, research, and service-related activities.

The Department of Mathematics has 33 tenured or tenure-track faculty members, together with several sessional lecturers, and offers a full range of undergraduate, M.Sc., and Ph.D. programs in both pure and applied areas. The University of Manitoba is home to the Institute of Industrial Mathematical Sciences, which actively promotes links between faculty members and industry. The Department of Mathematics is also home to the technical editing facilities of the Canadian Mathematical Society.

Winnipeg is a city of about 650,000 that has a great deal to offer, both culturally and recreationally. The symphony, ballet, numerous choral groups, opera and several professional live theatre companies provide a cultural milieu unusual for a city of this size. In addition, the city is home to several professional sports teams. There are many opportunities nearby for a variety of outdoor activities in all seasons. The Winnipeg housing market is one of the most favorable in Canada to the home buyer.

The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disabilities. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Further information concerning the Department and the University may be obtained from our World Wide Web home page:

<http://www.umanitoba.ca/faculties/science/mathematics/>

Applicants should send a curriculum vitae and the names of three referees (together with e-mail addresses, if possible) to the address below. The application should include statements regarding research plans and teaching philosophy. Applicants should arrange for letters of reference to be sent directly from referees. At least one letter should comment on the applicants teaching ability.

The deadline for applications is **February 16, 2001**. They should be sent to:

Chair of Search Committee
Department of Mathematics
University of Manitoba
Winnipeg, Manitoba
Canada R3T 2N2
e-mail: mathematics_dept@umanitoba.ca
telephone: (204) 474-8703
fax: (204) 474-7611

**UNIVERSITY OF TORONTO – TORONTO, ONTARIO
DEPARTMENT OF MATHEMATICS
Tenure-Stream Appointment in Mathematics at Erindale**

The University of Toronto solicits applications for a tenure-stream appointment in any area of Pure or Applied Mathematics, with preference given to the areas of Algebra and Geometry.

The appointment is at the University of Toronto at Mississauga, Erindale College, at open rank, to begin July 1, 2001. Salary commensurate with experience. Candidates are expected to have demonstrated excellence in both teaching and research after the Ph.D.; in particular, a candidate's research record should show clearly the ability to make significant original and independent contributions to Mathematics.

Applicants should send their complete C.V. including a list of publications, a short statement describing their research programme, and all appropriate material about their teaching. They should also arrange to have at least four letters of reference sent directly to

**Search Committee, Department of Mathematics
University of Toronto
100 St. George Street, Room 4072
Toronto, Canada M5S 3G3**

At least one letter should be primarily concerned with the candidate's teaching. In addition, it is recommended that applicants submit the electronic application form at <http://www.math.toronto.edu/jobs>. The position code is ERIN.

To ensure full consideration, this information should be received by **February 28, 2001**.

Canadian citizens and permanent residents will be considered first for this position.

The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, and others who may add to the diversity of ideas.

Any inquiries about the application should be sent to idm@math.toronto.edu

**QUEEN'S UNIVERSITY – KINGSTON, ONTARIO
DEPARTMENT OF MATHEMATICS & STATISTICS**

The Department of Mathematics and Statistics invites applications for a renewable (tenure-track) appointment in statistics at the Assistant Professor level to begin July 2001. The successful applicant will be expected to demonstrate potential for outstanding scholarship and research and show evidence of a commitment to excellence in teaching. Salary will be commensurate with qualifications and experience. This position is subject to budgetary approval.

Interests of the present statistics faculty include: design of experiments, non-parametric statistics, time series, image analysis, statistical problems in biomechanics, queuing methodology, Bayesian data analysis and the teaching of statistical consulting. Opportunities exist for collaboration with research groups in the University in a variety of disciplines including clinical trials, statistical process control and ergonomics.

The Department offers a full range of graduate and undergraduate degrees in statistics including a Ph.D. program. Candidates should have a Ph. D. in statistics or a related area and will have begun an active research program. Candidates with some teaching experience are preferred.

Interested candidates should arrange for a curriculum vitae, a description of research interests, up to five publications or preprints, a statement on teaching or a teaching dossier, and at least three letters of reference, one of which should comment on the candidate's teaching, to be sent to the address below by **February 28, 2001**.

**Dr. Joan M. Geramita, Associate Head
Department of Mathematics and Statistics
Queen's University, Kingston
Ontario, K7L 3N6, Canada
fax: (613) 533-2964 / e-mail: position@mast.queensu.ca
<http://www.mast.queensu.ca>**

Canadian citizens and permanent residents will be considered first for this position.

Queen's University is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people, persons with disabilities, gay men and lesbians.

CALENDAR OF EVENTS / CALENDRIER DES ÉVÉNEMENTS

MARCH 2001

- 8–11** Workshop on Population Genetics at the Molecular Level, (CRM, Montréal)
<http://www.CRM.UMontreal.CA/biomath/>
- 25–30** Sixth International Conference on Approximation and Optimization (Guatemala City, Guatemala)
<http://www.ing.usac.edu.gt/apopt6/>
- 26–April 7** Symplectic and Contact Topology, Field Theory and Higher Dimensional Gauge Theory, in the Symplectic Topology, Geometry, and Gauge Theory Program (Fields Institute, Toronto and CRM, Montréal)
<http://www.fields.utoronto.ca/symplectic.html>

APRIL 2001

- 25–26** Workshop on Mathematical Formalisms for RNA Structure, (CRM, Montréal)
<http://www.CRM.UMontreal.CA/biomath/>

MAY 2001

- 25–29** Annual meeting of the Canadian Mathematics Education Study Group (University of Alberta, Edmonton)
<http://cmesg.math.ca>
- 25–27** Annual meeting and special session on French mathematics, Canadian Society for History and Philosophy of Mathematics / Société canadienne d'histoire et de philosophie des mathématiques (Université Laval, Québec)
<http://www.cshpm.org>

JUNE 2001

- 2–4** CMS Summer Meeting / Réunion d'été de la SMC (University of Saskatchewan, Saskatoon, Saskatchewan)
<http://www.cms.math.ca/CMS/Events/summer01>
- 4–8** International Conference on Computational Harmonic Analysis (City University of Hong Kong)
malam@cityu.edu.hk
- 4–13** Hamiltonian Group Actions and Quantization, in the Symplectic Topology, Geometry, and Gauge Theory Program (Fields Institute, Toronto and CRM, Montréal)
<http://www.fields.utoronto.ca/symplectic.html>

JULY 2001

- 9–20** Séminaire de mathématiques supérieures NATO Advanced Study Group (Université de Montréal)
<http://www.dms.umontreal.ca/sms>
- 16–21** COCOA VII - The Seventh International Conference on Computational Commutative Algebra (Queen's University, Kingston)

MARS 2001

- A. Geramita* (tony@mast.queenu.ca)
<http://cocoa.dima.unige.it/>

- 22–25** International Symposium on Symbolic and Algebraic Computation, (University of Western Ontario, London, Ontario)
<http://www.orcca.on.ca/issac2001/>

AUGUST 2001**AOÛT 2001**

- 7–9** Nordic Conference on Topology and its applications, NORDTOP 2001 (Sophus Lie Centre at Nordfjordeid, Norway)
nordtop2001@mail.mathatlas.yorku.ca

- 12–18** Thirty-ninth International Symposium on Functional Equations (Sandbjerg, Denmark, organized by Aarhus University)
Henrik Stetkaer: stetkaer@imf.au.dk
- 13–15** 13th Canadian Conference on Computational Geometry, (University of Waterloo)
<http://compgeo.math.uwaterloo.ca/cccg01>

SEPTEMBER 2001**SEPTEMBRE 2001**

- 22–26** Applications of Discrete Mathematics, Australian Mathematical Society (Australian National University, Canberra)
Ian Roberts: iroberts@darwin.ntu.edu.au
or Lynn Batten: lmbatten@deakin.edu.au

DECEMBER 2001**DÉCEMBRE 2001**

- 8–10** CMS Winter Meeting / Réunion d'hiver de la SMC (Toronto Colony Hotel, Toronto, Ontario)
<http://www.cms.math.ca/CMS/Events/winter01>

MAY 2002**MAI 2002**

- 3–5** AMS Eastern Section Meeting (CRM, Université de Montréal)
<http://www.ams.math.org/meetings/>

JUNE 2002**JUIN 2002**

- 6–8** CAIMS 2002 (University of Calgary)
Samuel Shen: shen@maildrop.srv.ualberta.ca
- 15–17** CMS Summer Meeting / Réunion d'été de la SMC (Université Laval, Québec, Québec)
Monique Bouchard: meetings@cms.math.ca
- 24–28** Special Activity in Analytic Number Theory (Max Planck Institute, Bonn)
moroz@mpim-bonn.mpg.de

AUGUST 2002	AOÛT 2002	JUNE 2003	JUIN 2003
20–28 International Congress of Mathematicians (Beijing, China) <i>cms@math08.math.ac.cn; http://icm2002.org.cn/</i>		CMS Summer Meeting / Réunion d'été de la SMC (University of Alberta, Edmonton, Alberta) <i>Monique Bouchard: meetings@cms.math.ca</i>	
DECEMBER 2002	DÉCEMBRE 2002	DECEMBER 2003	DÉCEMBRE 2003
8–10 CMS Winter Meeting / Réunion d'hiver de la SMC (University of Ottawa / Université d'Ottawa, Ottawa, Ontario) <i>Monique Bouchard: meetings@cms.math.ca</i>		CMS Winter Meeting / Réunion d'hiver de la SMC (Simon Fraser University, Burnaby, British Columbia) <i>Monique Bouchard: meetings@cms.math.ca</i>	

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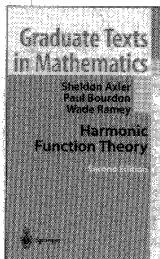
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