CMS
Annual Report to Members
1996-1997

November 28, 1997

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A Word From the President

Katherine Heinrich (Simon Fraser University)

I've learnt a lot during the last year - about deadlines, budgets, members' concerns, and the challenges of fundraising, publishing and responding to conflicting points of view - as I've worked with staff and volunteers to address the myriad of issues that arise on a daily basis in the CMS Office. But, looking back over the year, what stand out most are our accomplishments. Accomplishments you will see described in this Annual Report. Accomplishments achieved through an extremely dedicated group of members, volunteers and employees. To all of them is owed an enormous debt of gratitude.

On the national front the year was very difficult as many mathematicians struggled with and against the Natural Sciences and Engineering Research Council of Canada (NSERC) in their bid to assure funding for various endeavours including the National Network for Collaboration in the Mathematical Sciences. CMS was able to assist by providing funding to enable the Liaison Group (representing the institutes, societies and departments) to meet with NSERC, ensuring opportunities for the Group to meet at CMS meetings and by providing funds to NSERC to enable the Review of Mathematics in Canada to take place. Efforts were not completely successful and the Network was not funded. This was extremely disappointing as it was to be a powerful mechanism to bring mathematicians together and provide opportunities for a broad range of mathematical activities across the country. Nevertheless it is hoped that in time we will find alternate ways to ensure the goals of the network are attained and the CMS believes it has an important role to play in doing so.

Maintaining a strong community of mathematicians across the country is important and is supported by providing opportunities for people to come together bringing with them new ideas, new initiatives, new energies and new purposes. And of course this often involves the participation of new voices.

With the loss of NSERC conference funding for the CMS semi-annual meetings it seemed that we might lose a major vehicle through which the CMS brings people together. A creative response was necessary and we took the opportunity to explore not only funding the meetings but also their structure. The goals were to ensure better communication between the various organisers, reduce costs, locate alternate financial support, encourage broader programming, include joint initiatives with other organisations, emphasise the support of graduate students - and, overall, provide more reasons and opportunities for participation.

It is too early to say how successful we have been. But it can be reported that: meetings are now overseen by a meeting director who ensures all organisers are kept fully informed and supported; sessions are being funded by the institutes (CRM, Fields and PIms); the June 97 conference was held jointly with a meeting of the International Linear Algebra Society; graduate student sessions are now featured regularly and funds are available to support students; and a greater emphasis is being placed on encouraging the organisation of unfunded sessions (in fact, I am involved in organising one myself next summer in Saint John).

New people are also being attracted to the Society. Several of the recently elected Board members completed PhDs not so many years ago. Initiatives are underway to encourage broader CMS membership - especially from new faculty. We will soon have two student members on the CMS Board and two new corporate members will join us in January. New initiatives have been undertaken this year. Mathematical Mayhem, an undergraduate mathematics magazine has joined with the CMS journal Crux Mathematicorum. Work has continued to broaden our involvement with youth in Canada through: the "Open"- a new mathematics competition for school students; plans for a book series at the school level; more stable financial support of IMO programs made possible by a donation of $125,000 from the 1995 IMO Corporation; and our developing partnership with the Youth Science Foundation to support mathematics projects at Science Fairs.

We enter our next year with substantial accomplishments behind us, excellent volunteers and an endowment fund close to our goal of $1.5 million. We are growing, developing and changing and need to ensure we are moving in the directions we deem most important. It is necessary to decide on our priorities and begin to plan. We need to ask what our members want of the Society, how the Society best supports them and, perhaps most importantly how we best support mathematics. Planning has started with ad hoc committees on policy and budget, board representation, and the use of future endowment income. We are also developing a planning document in which we will state clearly what we stand for, establish goals and develop strategies for achieving them.

The future is promising - join with us in the promotion and development of mathematics in Canada.

Executive Director's Report

Graham P. Wright (Ottawa)

The past year has seen a large number of new initiatives and changes for the CMS. A good level of media coverage was obtained for the CMS in general, and for the Society's education activities in particular.

During 1996-97, the CMS database was upgraded and, in addition to improvements in the system, a greater degree of automation is now possible in numerous office procedures. For example, the members database records are exported daily so that the information on Camel is as current as possible and changes are automatically made to various e-mail lists. As part of the renewal process, members are provided with a CMS identification number and a temporary password so that they can activate their Camel account. When activated, this account provides access to some of the restricted areas on Camel and, for those individuals who subscribe to a Society periodical, it also permits access to the on-line version. This new database should meet the needs of the CMS for the foreseeable future.

One project that is very dependent on the database is the next edition of the CMS Membership Directory. It is anticipated that the 1997 edition of the Directory will be available in printed form, and on Camel, by the end of 1997.

Increasingly, the Executive Office is required to ensure numerous materials are also available electronically on Camel. Via Camel, members can now subscribe to CMS periodicals and purchase other publications, register for the meetings electronically, search the membership database and easily communicate with those responsible for particular activities.

By-Law Revisions

By-law No. 10 was accepted by the General Meeting in June 1997, and has received the approval of the Ministry of Consumer and Corporate Affairs.

This by-law revision enables meetings of the Board by conference call as well as the option for votes electronically. Although federal statutes do allow for such votes, there are procedures that must be followed. All members of the Board will be required to unanimously accept two enabling resolutions for such procedures to be possible.

By-law No. 10 also includes the change in the financial year-end from June 30 to December 31 and allows for two students to be appointed to the Board.

Education Activities

Significant administrative and other support has been provided for the first Canadian Open Mathematics Challenge (November 1996), the 1997 Canadian Mathematical Olympiad (March 1997), the selection, training and travel of Canada's team to the 1997 International Mathematical Olympiad in Argentina (July 1997), exhibits at provincial and national meetings (May 1997) and grants for the support of public lectures and other events that help promote and increase the public awareness of mathematics.

The Society's educational activities, particularly the Open and the various Olympiads, have received a significant level of media exposure and interest.

Research Activities

The CMS semi-annual meetings are a critical component of the Society's activities and the Executive Office continues to provide significant support for all aspects of these meetings. All registrations (including on-line), exhibits, logistical details and the promotion of our meetings are coordinated through the Executive Office.

Furthermore, the elimination of NSERC's Conference Grants Programme resulted in the Society establishing a "New Framework for CMS Meetings." Work continues to ensure that our semi-annual meetings are of interest to a wide section of the mathematical community and that the meetings do not run deficits.

Periodicals and other publications

The Society continues to provide an extensive range of periodicals and other publications.

Thanks to the efforts of the editors-in-chief, and the TeX Editor (whose office has experienced a number of staffing changes during the past year), the Canadian Journal of Mathematics (CJM) and the Canadian Mathematical Bulletin (CMB) have appeared almost always on schedule.

The Publications Committee recommended that authors be provided with the option of transferring copyright to the CMS or providing the CMS with a consent to publish. A "Consent to Publish and Transfer of Copyright Agreement" was accepted by the Board of Directors in June and is now being used by the editors-in-chief. Although authors can choose not to transfer copyright, they are encouraged to do so.

In February 1997, the first issue of Crux Mathematicorum with Mathematical Mayhem (CRUX with MAYHEM) was released. The cover layout was changed and the combination of CRUX with MAYHEM has been well received. I wish to acknowledge the work done by the Editor-in-Chief, Bruce Shawyer, to make the incorporation of Mathematical Mayhem almost seamless and I am glad to report that all issues of CRUX with MAYHEM appeared on schedule.

In 1996, CRUX (now with MAYHEM) was the first of the Society's journals to be available on-line, but to individuals only. In 1998, our two research journals, the CJM and the CMB, together with CRUX with MAYHEM, will be available on-line to both individuals and institutions.

In addition, the last of the Society's three 50th Anniversary Volumes (Invited Papers) was released in December 1996, and several books in the Conference Proceedings Series (published with the AMS) and the CMS Series of Advanced Mathematics Books (published with Wiley) have appeared. A new series for high school students - "A Taste of Mathematics" (ATOM) - is being developed. The first volume, "Mathematical Olympiads Correspondence Program (1995-1996)," is scheduled for publication in the fall of 1997 and other volumes are being prepared.

A promotional campaign is underway for the Journal, the Bulletin, CRUX with MAYHEM and the Anniversary Volumes. It is hoped this campaign will help to increase the subscriber base for our periodicals and generate significant revenue from other publication sales.

With the help of Judi Borwein, the CMS Notes are now being produced in a LaTeX format. It is hoped to provide an on-line version of the Notes on Camel in the near future and other changes are planned for 1998 that should reduce costs, particularly printing and distribution costs.

Contracted Services

As approved by the Board of Directors, a contract was signed with the Academy of Science, Royal Society of Canada, in which the CMS will provide assistance with the production and distribution of "Comptes rendus mathématiques - Mathematical Reports" for the 1997 volume year.

The re-design of this publication, the transition of the subscriber data and the production of the first issue (Volume 19 No. 1 - June 1997) involved some unforeseen difficulties but this issue has now appeared. Negotiations are underway regarding a renewal of the contract for 1998.

In 1996, the Canadian Undergraduate Mathematics Conference (CUMC) approached the CMS for administrative and accounting assistance and for a "permanent" location for the CUMC home page and other services. The CMS was pleased to provide this assistance and to support the work of the CUMC.

All of the Society's numerous activities and initiatives would not be possible without the help of the many volunteers and dedicated members. To all of them, and to all of those who provide such invaluable assistance in the various offices across Canada, I extend my sincere thanks for a most successful and productive year.

Treasurer's Report

Arthur Sherk (Toronto)

Contrary to fears expressed at the Board of Directors meeting on June 6, 1997, the Operations Fund shows a cumulative surplus rather than a deficit. There was however an actual annual deficit of $7,415, which was more than covered by the cumulative surplus carried over from the previous year. The reasons for the deficit (which was not planned in the budgeting process) are presently being examined by a special Budget Policy Committee, as part of its mandate, to provide some guidelines for future budgets.

Revenue generated by the Endowment Fund is down over the 1995-96 figure. Although the difference can be explained in terms of changes in portfolio holdings and the type of bonds held, this is another development that will bear scrutiny by the Budget Policy Committee. The market value of the Endowment Fund increased by about 17%. There are no comparative figures for the IMO Fund since 1996-97 was the first year of its existence. Plans regarding the handling of investments, approved by the Board on June 6, 1997, are expected to add some stability to investment activities.

Beginning January 1, 1998, our budget year will coincide with the calendar year. We have an interim six-month budget, July 1 - December 31, 1997, which is expected to show a large deficit owning to revenue/expenditure yearly patterns. If a cumulative deficit exists on December 31, 1997, it will be covered by a special appropriation from the Endowment Fund so that for 1998 and future years it will not be saddled with the adverse anomalies of this budget.

Balance Sheet
as at June 30, 1997

	Operations Fund $	Endowment Fund $	IMO Fund $	1997 $	1996 $
ASSETS					
CURRENT					
Cash	155,441	-	3,529	158,970	158,563
Temporary investments	201,249	169,985	-	371,234	208,796
Accounts receivable and accrued interest	53,913	21,906	313	76,132	57,565
Budget advances	29,886	-	-	29,886	32,543
Prepaid expenses	47,257	-	-	47,257	33,635
Interfund payable	(4,758)	-	4,758	-	-
	482,988	**191,891**	**8,600**	**683,479**	**491,102**
INVESTMENTS		**974,946**	**125,294**	**1,100,240**	**1,040,637**
	482,988	**1,166,837**	**133,894**	**1,783,719**	**1,531,739**
LIABILITIES & SURPLUS					
CURRENT					
Account payable and accrued liabilities	152,622	-	-	152,622	99,046
Deferred revenue	279,384	-	-	279,384	261,630
	432,006			**432,006**	**360,676**
FUND BALANCES					
Operations Fund	50,982	-	-	50,982	58,397
Restricted Funds	-	1,166,837	133,894	1,300,731	1,112,666
	50,982	**1,166,837**	**133,894**	**1,351,713**	**1,171,063**
	482,988	**1,166,837**	**133,894**	**1,783,719**	**1,531,739**

Statement of Revenue and Expenditures as at June 30, 1997

Operations Fund

	General Division	Publishing Division	Research Division	Education Division	Total 1997	Total 1996
	$	$	$	$	$	$
REVENUE						
Grants	-	-	34,786	3,000	37,786	62,619
Donations	7,232	12,309	399	37,654	57,594	65,834
Membership fees	74,350	-	-	-	74,350	72,587
Registration fees and other sales	-	-	62,248	17,868	82,116	65,558
Subscriptions and publications	-	519,153	-	664	519,817	500,349
Advertising and promotional sales	4,447	6,548	6,960	-	17,985	15,151
Interest and foreign exchange	13,700	146,770	23	-	160,493	147,641
Miscellaneous	129	7,769	-	-	7,898	2,474
	99,888	**692,549**	**106,416**	**59,186**	**958,039**	**932,213**
EXPENDITURES						
National Projects		-	5,000	68,949	73,949	38,245
Speakers and Prizes	-	1,601	54,032	13,830	69,463	61,850
Production	-	130,422	4,204	-	134,626	169,597
Promotion	4,575	16,607	595	-	21,777	4,580
Salaries and benefits	155,517	278,517	3,910	-	437,944	389,092
Executive, Board and Committees	41,935	3,254	531	8,669	54,389	50,453
Meeting Expenses	-	-	43,285	3,000	46,285	41,315
Legal and Audit	3,135	4,412	-	-	7,547	110,406
General Administration	53,835	60,152	3,377	2,110	119,474	8,278
Administrative Overhead (recovery)	(4,000)	-	4,000	-	-	-
	254,997	**494,965**	**118,934**	**96,558**	**965,454**	**873,816**
Excess (Deficiency) of Revenues over	**(155,109)**	**197,584**	**(12,518)**	**(37,372)**	**(7,415)**	**58,397**
Fund balances, beginning of year					**58,397**	**0**
Fund balances, end of year					**50,982**	**58,397**

Restricted Funds

	Endowment Fund 1997	Endowment Fund 1996	IMO Fund 1997	IMO Fund 1996	Total 1997	Total 1996
	$	$	$	$	$	$
REVENUE						
Donations	1,112	-	133,758	-	134,870	0
Membership fees	4,000	3,000	-	-	4,000	3,000
Dividend, interest and other income	57,106	43,249	3,444	-	60,550	43,249
Amortization of bond discounts (premiums)	2,981	27,459	(308)	-	2,673	27,459
Gain (loss) on sale of investments	(573)	7,386	-	-	(573)	7,386
	64,626	**81,094**	**136,894**	**-**	**201,520**	**81,094**
EXPENDITURES						
Lifetime membership fees annual transfer	9,083	7,943	-	-	9,083	7,943
Mathematical Olympiads annual transfer	-	-	3,000	-	3,000	0
Special projects	-	1,750	-	-	0	1,750
Commissions	1,372	-	-	-	1,372	0
	10,455	**9,693**	**3,000**	**-**	**13,455**	**9,693**
Excess of revenue over expenditures	**54,171**	**71,401**	**133,894**	**-**	**188,065**	**71,401**
Fund balances, beginning of year	**1,112,666**	**1,041,265**	**-**	**-**	**1,112,666**	**1,041,265**
Fund balances, end of year	**1,166,837**	**1,112,666**	**133,894**	**-**	**1,300,731**	**1,112,666**

Budget - July to December 1997
Operations Fund

	General $	Publishing $	Research $	Education $	Totals $
REVENUE					
Grants	-	-	17,500	3,000	20,500
Donations	3,000	10,000	200	35,000	48,200
Membership fees	41,520	-	-	-	41,520
Registration fees and other sales	-	-	51,270	42,000	93,270
Subscriptions and publications	-	303,621	-	400	304,021
Advertising and promotional sales	2,000	4,150	3,000	-	9,150
Interest and foreign exchange	2,500	11,600	-	-	14,100
Miscellaneous	-	3,875	-	-	3,875
Total Revenue	**49,020**	**333,246**	**71,970**	**80,400**	**534,636**
EXPENDITURES					
National Projects	-	-	-	77,000	77,000
Speakers and Prizes	-	200	41,333	1,550	43,083
Production	-	73,233	1,125	1,500	75,858
Promotion	4,000	2,500	-		7,250
Salaries and benefits	81,075	154,322	450	-	235,847
Executive, Board and Standing Committees	25,950	3,700	1,300	10,100	41,050
Meeting Expenses	-	-	26,400	-	26,400
Legal and Audit	2,255	3,745	-	-	6,000
General Administration	35,245	32,019	6,650	-	73,914
TOTAL EXPENDITURES	**148,525**	**269,719**	**77,258**	**90,900**	**586,402**
NET REVENUE/EXPENDITURES	**(99,505)**	**63,527**	**(5,288)**	**(10,500)**	**(51,766)**

Education

Eric Muller (Brock) Chair

Malgorzata Dubiel (Simon Fraser)
Harvey Gerber (Simon Fraser)
Denis Hanson (Regina)
Bernard Hodgson (Laval)
Mary Lesperance (Victoria)
Gordon MacDonald (UPEI)
Morris Orzech (Queen's)
David Poole (Trent)
Ronald Richards (Memorial)
Pat Rogers (York)
Christinne Rousseau (Montreal)
Bruce Shawyer (Memorial)
Maureen Tingley (UNB Fredericton)
Robert Woodrow (Calgary)

Sub-Committee for Public Lectures
Gordon MacDonald (UPEI) Chair
Malgorzata Dubiel (Simon Fraser)
Eric Muller (Brock)

Sub-Committee for Provincial Competitions
Robert Woodrow (Calgary) Chair
Gordon MacDonald (UPEI)
Eric Muller (Brock)

Sub-Committee for Raising Public Awareness
Malgorzata Dubiel (Simon Fraser) Chair
Denis Hanson (Regina)
Eric Muller (Brock)

Sub-Committee for Materials on Camel
Morris Orzech (Queen's) Chair
Denis Hanson (Regina)
Eric Muller (Brock)
Robert Woodrow (Calgary)

A new CMS programme of mathematics awards at the annual Canada-Wide Science Fair was started during this period. As there is no mathematics category at these Fairs, CMS awards recognize individuals who have a substantial mathematics component to their project and whose work is judged to be excellent. It is hoped that the awards will motivate the organizers, the Youth Science Foundation of Canada, to introduce a mathematics category into the Canada science fairs, as there is in the US. The CMS Office was particularly helpful in negotiating and establishing these awards. The 1997 Canada-wide Science Fair was held in Regina. Denis Hanson (Regina) and a team of volunteers did a great job selecting the prize winners and representing the CMS at the awards ceremonies.

David Poole (Trent) had the responsibility for developing and running the education session in London for the 1996 winter meeting. The theme was "Innovations in Mathematics Teaching" and Pat Rogers (York) was Plenary speaker. It was particularly rewarding to see a number of graduate students from York participating in the programme. In Winnipeg, Lars Jansson (Manitoba) and Kathleen Nicol (Brandon) invited Wayne Watt from the Government of Manitoba as Plenary speaker to reflect on the changes in school mathematics and their implications on university mathematics. The other presentations were oriented towards mathematics in business and agriculture. The Education Committee is very thankful for the work done by the organizers of these sessions which add another dimension to the CMS meetings.

The second Adrien Pouliot Award for sustained contributions to mathematics education was presented to Bruce Shawyer (Memorial) at the banquet of the 1996 Winter Meeting in London. Well

done Bruce and thank you for all that you have and are doing to stimulate young minds in mathematics.

During the period covered by this report, the Education Committee continued to work on the existing programmes of the Society. A CMS grant was awarded to the Third Canadian Undergraduate Mathematics Conference. Application for grants to support Provincial Mathematics Competitions, Public Lecture Programmes and activities which aim to popularize mathematics were adjudicated. The Committee urges CMS members to look at these programmes and apply for support where appropriate. These activities help the Society to become more visible outside the university sector and help others to enjoy and enrich their experiences of mathematics. The CMS ran a major display at the 1997 Ontario Association for Mathematics Education conference in Toronto which was visited by a large number of mathematics teachers. Copies of CRUX with MAYHEM and exploration of Camel were hot items. The Education Committee is attempting to define the role that CMS should play in the mathematics education component of Camel. Anyone with suggestions should contact a committee member.

January 1997 saw a turn over of Committee members. We thank Bernard Hodgson (Laval), David Poole (Trent), and Ronald Richards (Memorial) for their many contributions to CMS through the Education Committee.

Electronic Services

Robert Rosebrugh (Mount Allison) Chair

Francois Bergeron (UQAM)
Jonathan Borwein (Simon Fraser)
Eddy Campbell (Queen's)
Nassif Ghoussoub (UBC)
John Jardine (Western)
June Lester (UNB)
Richard Lockhart (Simon Fraser)
Eric Muller (Brock)
Duncan Murdoch (Queen's)
Morris Orzech (Queen's)
David Rodgers (Enterprise Info Sys)
Yvan Saint-Aubin (Montreal)
Keith Taylor (Saskatchewan)
Graham P. Wright (Ottawa)

The Electronic Services Committee (ESC) is charged with overseeing of the burgeoning electronic activities of the CMS. These activities have critical implications for the future financial health of the Society. The ESC works closely with the Finance and Publications Committees and has ex-officio members from the Research, Education and Women in Mathematics Committees. This year, a private sector member joined the ESC.

The electronic activities of the CMS already pervade every area of its function: Executive Office management, information flow to and from members, publications (traditional and electronic), education, outreach and public policy activities.

In 1994, the Society created "Camel," the Canadian Mathematical Information Services - Les Services electroniques mathématiques canadiens, with the assistance of a grant from CANARIE Inc (the Canadian Network for the Advancement of Research, Industry, and Education). The visible face of this service is now a Web Server which receives tens of thousands of “hits” per month. Behind

the scenes a remarkable group of programmers maintain the server at the Centre for Experimental and Constructive Mathematics at Simon Fraser University and at and the University of Ottawa (now an eastern mirror for Camel). Camel also receives assistance from the Centre de Recherches Mathématiques. Recently "Camel East" has taken independent responsibility for Camel areas providing information on the CMS. The ESC approved detailed operating protocols for Camel in 1996. Reflecting the rapid pace of Internet development, they have already been updated.

Camel offers a comprehensive set of resources. These include: routine information about the Society, CMS Conference information (including on-line registration), abstracts for CMS publications, material on Mathematical Education, Women in Mathematics, NSERC and electronic journals, and links to a broad selection of other mathematical resources. In September 1996, the Society made available its first electronic journal - an on-line version of "Crux Mathematicorum with Mathematical Mayhem." This has been a major success both in broadening the reach of the journal and increasing the subscriber base. By January 1998, the Society's research journals will commence on-line publication based on tools developed by Camel. With the help of a grant from *Nancy's Very Own Foundation*, the Women in Mathematics Committee guided a project to create Web pages for women mathematicians.

The whole face of the Camel site must be constantly upgraded - during the past year both the CMS area and the "front door" to Camel have undergone complete overhauls to bring their visual appearance in line with current Web standards.

The CMS is also a founding partner in an Industry Canada sponsored consortium of publishers with interest in on-line publishing. The Virtual Centre for On-Line Scholarly Publishing (VCOSP) may provide an avenue for the CMS to become a leader in electronic technical publishing in Canada.

Finance

Richard Kane (Western) Chair

Timothy Appelt (Structured Analytics Inc.)
Eddy Campbell (Queen's)
Ian Goulden (Waterloo)
Katherine Heinrich (Simon Fraser)
Gordon Mason (UNB)
P. G. (Tim) Rooney (Toronto)
Ben Segal (Government of Canada)
Arthur Sherk (Toronto)
Graham P. Wright (Ottawa)

Sub-Committee - Investment Advisory Group
Ben Segal (Government of Canada) Chair
Timothy Appelt (Structured Analytics Inc.)
Eddy Campbell (Queen's)
Andy Dencs (Wood Grundy)
Richard Kane (Western)
Graham P. Wright (Ottawa)

The Finance Committee deals with the Society's budget and its investments. Two members of the committee play a particularly significant role in dealing with budget matters. The Executive Director, Graham Wright, handles the basic day-to-day decisions in these areas and also formulates the budgets, as well as many of the budget policies, which come to the committee for consideration. The Treasurer, Arthur Sherk, is a major advisor to the Executive Director on budget matters, particularly during the annual budget preparations. The principal forum for the discussion of the

Society's investment portfolio and, more generally, the Society's investment strategy is the Investment Advisory Group (IAG). The IAG includes a small group of outside financial experts who provide advice regarding the Society's investment decisions. Until recently, the IAG Chair, Ben Segal, also handled day to day investment decisions.

In the past year, a number of initiatives have taken place both in the area of budget procedures and the area of investment policy. As of 1998, the Society's budget year will begin on January 1 rather than July 1. To handle the transition a special half year budget was presented for the period July 1-December 31, 1997. In addition, accounting procedures have been altered which will enable us to better monitor our financial affairs. The Operations Fund has been broken into four divisions reflecting the activities of the Society: General, Education, Research and Publishing. Our two Restricted Funds (RF), the International Mathematical Olympiad Fund (IMOF) and the Endowment Fund (EF), have been segregated from the Operating Fund.

Over the past few years, a more coherent investment strategy has slowly begun to take shape. Thanks to the efforts of Ben Segal, our portfolio has been divided into two areas - cash and bonds under the direction of the IAG and equities which Brian Neale of RBC Dominion Securities directs, in consultation with the Chair of the IAG. The Finance Committee has recently been dealing with the question of a long term investment strategy. So far, the IAG has been basically operating in a vacuum insofar as input from the CMS regarding long-term strategy is concerned. Samples of the types of questions which the CMS has not dealt with and which it seems important to answer are: what are the goals of our investments?; what risk factors are we willing to tolerate?; how active should our investment management be?; what diversification in terms of Canadian versus international investment should be sought? The Committee has been considerably aided in these deliberations by the advice of Tim Appelt and by experts whom he arranged to make presentations. The Society is indebted to Ben and Tim for their advice and counsel.

It has been suggested that we actually have an answer of sorts to the question of our investment goals. Most of our investments are concerned with the Endowment Fund. Our goal is to raise the Endowment Fund to $1,500,0000 by the year 2001 and we are well on our way to achieving that goal. The Endowment Fund increased by 16.8% during the 1996-97 fiscal year, ending with a value of just over $1,354,000.

Fund Raising

Katherine Heinrich (Simon Fraser) Chair

Francis Baragar (Alberta)
David Borwein (Western)
Maxim Burke (UPEI)
Charles Edmunds (Mount St. Vincent)
J. Chris Fisher (Regina)
Ronald Fitzgerald (MathResources Inc.)
Arthur Gerhard (Manitoba)
William Kocay (Manitoba)
David J. Leeming (Victoria)
Ginette Ouellette (College de Valleyfield)
Ronald Roseburgh (Mount Allison)
Arthur Sherk (Toronto)
Jon Thompson (UNB)
Edgar Williams (Memorial)
Graham P. Wright (Ottawa)

Our current fundraising theme is Mathematics and Youth. Companies are being specifically targeted to be major sponsors of activities such as: Canadian Open Mathematics Challenge (COMC), math for students on Camel, International Mathematical Olympiad (IMO). A colour brochure is being professionally prepared. Our message is that donating to support activities for youth is a long-term investment in mathematics, and in the country's economy.

A brief description of our activities follows:

- Efforts are underway to activity promote the CMS and its activities at regional and provincial teachers' events. This year we participated in an event at the University of Calgary, the annual OAME meeting in Toronto and the Canada-Wide Science Fair (Regina), where mathematicians from the University of Regina judged projects and awarded CMS prizes. The Office will prepare packages of materials for members who volunteer to participate in this way.

- We met with Doug Hull and others at Industry Canada (IC) to pursue opportunities to work together. IC is providing funding of $10,000 over two years to allow us to make available one-year subscriptions of "CRUX with MAYHEM" for the schools of the gold medal winning students (about 100 of them). We have also been actively promoting the COMC through SchoolNet.

- In the 1997 CMS membership drive, members were given the opportunity to direct their donations to specific areas of the CMS operations. This proved to be very successful and members donated over $7,000. We are very grateful and this will continue to be a feature of the membership renewal forms. We will be looking at ways to more publicly thank our members. We continue to recruit new members and, beginning in 1998, we will be offering reduced fees for the first two years to all new mathematics faculty members. With the enhanced education activities of the CMS we now have more to offer mathematicians in colleges, CEGEPs and schools and will be looking for opportunities to invite them to join. All members are asked to encourage their colleagues at these institutions (and their own university) to become members of the CMS.

- A brochure describing the CMS historically and currently has been developed. This will be distributed to members, sponsors and future sponsors in place of the more detailed annual report (Although the full report will still be available).

- Members of the committee have been investigating the possibility of offering a workshop in Toronto on financial mathematics as a mechanism for both generating revenue and giving a higher profile to the CMS in the financial community. The remains under consideration. We have discussed an agreement with MathResources Inc. that allows us to distribute their CD ROM.

- Searching for sponsors is a slow process, but we have lately been encouraged greatly in this activity by the support of Lesya Balych (Bank of Montreal) and Rosaria Morelli (Deloitte and Touche) who have been assisting us significantly. We are working to know a broad range of corporate people and build support through invitations to the IMO dinner and other events to give future and current sponsors the opportunity to see and experience our activities and meet the people working to make them happen.

- Committee members continue to work to build contacts with their provincial governments. Funding received this year was: BC - $2,000 for the Victoria meeting; Alberta - $1,000 for CMO; Ontario - $13,100 in IMO support; Quebec - $1,500; Newfoundland - $5,000 for electronic and educational services; New Brunswick - $4,000 for web materials (particularly in French); North West Territories - $2,000.

- Funding has also been received from corporations and foundations: Nancy's Very Own Foundation - $5,500 for women's web pages; Xerox - $1,000 to support Math in the Malls; Sun Life - $5,000 to support the CMO; in support of educational activities: 3M Canada donated $500; 1996 IMO Parents and Schools gave $3,000; Field Institute/Sun Life Company - $4,645; HP (Canada) Ltd. - $942, Pratt & Whitney - $1,000; Samuel Beattie Fund - $1,000; and, together, the Senator N. M. Paterson Foundation; the McLean Foundation and Rockwell International provided $3,500 for our general activities.

- The major contribution during the year was $125,000 from the OIM 1995 IMO competitions to establish an endowed fund to support mathematical olympiad activities. We are now seeking to add to this endowment to ensure the long-term support of our olympiad program.

Finally, the International Affairs Committee has identified institutions in the former Soviet Union (fSU) to whom we will be sending journal subscriptions donated by members. Contact has been make with the institutions and journals should soon be on the way. We have received very heartwarming letters thanking us for our support. Funds had also been raise to support mathematicians in Sarajevo. Since the circumstances of those mathematicians has changed significancy since the money was raised, it was decided to send it to the IMU to be used to fund mathematicians from Bosina to attend the 1998 International Mathematics Congress. Many thanks to all who made donations.

Government Policy

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L. Lorne Campbell (Queen's)
Peter Fillmore (Dalhousie)
Kohur Gowrisankaran (McGill)
Kathryn Hare (Waterloo)
Agnes Herzberg (Queen's)
Jacques Hurtubise (McGill)
Graham P. Wright (Ottawa)

The national survey data is being processed at Queen's and the results should be available shortly. The Committee Chair attended the monthly meetings of the Consortium and of Partnership Group for Science and Engineering (PAGSE). In different ways, both try to influence federal scientific research policy and play a role in lobby efforts for the Canadian Foundation for Innovation (CFI). In the fall of 1996, the PAGSE organized a science highlight day in Ottawa and Donald Dawson was the CMS speaker.

Human Rights

Steve Kirkland (Regina) Chair

Ejaz Ahmed (Regina)
Chandler Davis (Toronto)
Karl Dilcher (Dalhousie)
Nassif Ghoussoub (UBC)
Anthony Thompson (Dalhousie)

It is the mandate of the CMS Human Rights Committee to investigate and monitor violations of the human rights of mathematicians. When appropriate, the Committee makes appeals on the victim's behalf.

The Committee has continued its efforts on behalf of Ahn Jae-Ku, a South Korean mathematician who was given a life sentence in November 1994 for advocating closer relations with North Korea. During the past year, the chair of the Committee wrote to the President of the Korean Mathematical Society and to South Korea's Ambassador to Canada: these letters expressed the CMS's concern for Ahn's welfare, and asked for further information on Ahn's situation. To date, neither the President nor the Ambassador has replied.

The Committee is also taking an interest in the case of the South Korean mathematician Myung Ho Kim, who appears to have been unfairly dismissed from his position at Sungkyunkwan University. While the Committee continues to follow the developments in this case, it has not taken any action.

Increasingly, it seems that recent graduates of Ph.D. programs in mathematics face the prospect of holding only short-term academic appointments (as opposed to tenure-track positions). The CMS Executive has requested that the Human Rights Committee prepare recommendations on the ethical and professional implications of this situation.

International Affairs

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John Chadam (Pittsburgh)
Sandy Dawson (Simon Fraser)
George Elliott (Toronto)
Narain Gupta (Manitoba)
Mohammad Hamdan (UNB)
Veronique Hussin (Montréal)
Christianne Rousseau (Montréal)
Hong Wang (Memorial)

The International Affairs Committee (IAC) is charged with overseeing CMS activities associated with international mathematical organizations, as well as other matters of an international character which are of interest to the Canadian mathematical community.

In particular, it appoints the Canadian delegates to the General Assembly of the international Mathematical Union (IMU), which last met in Lucerne in 1994. The International Commission on Mathematics Education (ICME) is a sub-commission of the IMU. The long-serving Canadian

delegate to this body, David Wheeler (formerly from Concordia University), retired this year and was succeeded by Bernard Hodgson (Laval), who represented Canada at ICME 96 in Seville. This appointment was made in consultation with the Canadian Mathematics Education Study Group.

The IMU is fostering and coordinating mathematical events around the world in connection with the turn of the millennium. This programme is called World Mathematical Year 2000 and the CMS is considering what form our participation might take.

With the generous support of CMS members, four sets of gift subscriptions to the Society's journals (1995-1997) are being sent to libraries in the former Soviet Union.

Mathematical Olympiads

Patrick Stewart (Dalhousie) Chair

Edward Barbeau (Toronto)
Kenneth Davidson (Waterloo)
Ron Dunkley (Waterloo)
Claude Laflamme (Calgary)
Richard Nowaskowski (Dalhousie)
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Canadian Open Mathematics Challenge
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Bhaskara Viswanathan (UNB)
Edward Wang (Wilfrid Laurier)

Our year begins with the Mathematical Olympiads Correspondence Program, run by Ed Barbeau at the University of Toronto. Each year about 20 of Canada's best high school mathematics students participate in the program which is designed to give them practice in obtaining and writing up solutions to competition level problems. Professor Barbeau sends out problem sets and marks (with copious comments) the solutions returned by the students. It is no accident that every member of our 1997 International Mathematical Olympiad team was a graduate of this program.

The first Canadian Open Mathematics Challenge was held on November 27, 1996. The Open provides a mathematical enrichment activity to a large number of students (nearly 3,000 wrote the paper last year) and it serves as a qualifying paper for the Canadian Mathematical Olympiad (CMO). Plaques are awarded to top students and their schools, and Gold Medals are awarded to up to 130 of the top students. The top 5 students in the first Open were Sabin Cautis (Earl Haig Secondary School, North York), Adrian Chan (Upper Canada College, Toronto), Byung-Kyu Chun (Harry Ainlay Composite Secondary School, Edmonton), David Nicholson (Fenelon Falls Secondary

School, Fenelon Falls) and Adrian Tang (Albert Campbell Collegiate Institute, Scarborough). The Open is administered for the Society by The Centre for Education in Mathematics and Computing at the University of Waterloo, and which is directed by Ron Dunkley.

Twelve students took part in the 1997 CMS Winter Training Camp at the University of Waterloo. The coaches at the camp were Naoki Sato, Christopher Small and Richard Nowakowski. The 20 students were selected on the basis of their solutions to ten problems which were sent to about forty students across Canada in September.

The Asian Pacific Mathematics Olympiad (APMO) was held on March 20, 1997. Canada placed seventh out of twenty countries participating. Our top students were Jimmy Chui (Gold Medal, Brebeuf College School, Willowdale, Ontario), Adrian Chan (Silver Medal, Upper Canada College, Toronto, Ontario) and Jiro Kondo (Silver Medal, Ecole Ste-Anne, Fredericton, New Brunswick).

The CMO was held on March 26, 1997. Eighty-one students participated and the top three were Sabin Cautis, Byung-Kyu Chun and Mihaela Enachescu (Dawson College, Westmount, Quebec). The Awards Banquet was held at Renison College on the campus of the University of Waterloo on June 11. About ninety people attended, including sixty-seven students.

Canada's 1997 International Mathematical Olympiad (IMO) Team consisted of Adrian Birka (Lakeshore Catholic High School, Ontario), Sabin Cautis, Adrian Chan, Jimmy Chui, Byung-Kyu Chun and Mihaela Enachescu. Richard Nowakowski was the Team Leader, Naoki Sato the Deputy Team Leader and Kristin Lord the chaperon. Christopher Small accompanied the team as an observer as he will be the Leader in 1998. The IMO was held in Mar del Plata, Argentina, from July 21 to July 31. Canada placed 29 out of the 82 participating countries. Both Adrian Chan and Byung-Kyu Chun received Silver Medals, Sabin Cautis and Mihaela Enachescu received Bronze Medals and Jimmy Chui received an Honourable Mention. Before leaving for Argentina the team trained at Saint Mary's University for two weeks (the coaches were Robert Dawson, Richard Nowakowski, Naoki Sato, Bruce Sawyer and Christopher Small), and the day before leaving, Upper Canada College in Toronto hosted a reception in their honour. Once again, our team received a good level of media coverage in both the press and on television.

The first booklet in our series, A Taste of Mathematics (Aime-T-On les Mathématiques) is "Mathematical Olympiads' Correspondence Program (1995-96)" edited by Ed Barbeau. The ATOM series is designed to provide enrichment material for high school students with an interest in and an aptitude for mathematics. The level will vary from quite elementary to more specialized material for students who are preparing for advanced competitions. Bruce Shawyer is responsible for making this project a reality.

Our Olympiad activities have taken the time and energy of many volunteers, too many to list here. Some of these people are mentioned in more detailed reports on the COMC , CMO and IMO-APMO which have appeared in the Notes. One person should be recognized, though. Graham Wright has put a tremendous amount of time and energy into our Olympiad endeavours during the last year, as in years past.

Nominations

Edgar Goodaire (Memorial) Chair

Peter Fillmore (Dalhousie)
Anthony V. Geramita (Queen's)
Katherine Heinrich (Simon Fraser)
François Lalonde (UQAM)
Wendy MacCaull (St. Francis Xavier)
Christine Soteros (Saskatchewan)

Most of the work of the Canadian Mathematical Society is carried out by twelve standing committees and numerous subcommittees whose total membership exceeds 130. For four months or more every year, the Nominating Committee is in touch almost daily discussing and contacting possible replacements for those committee members whose terms expire at the end of the year.

In recent years, we have made a special effort to enlist the support of people not directly involved in academia because of the special expertise and fresh view points such individuals can provide. This past year, for example, we were exceptionally pleased that Mr. David Rogers accepted an invitation to join our Electronic Services Committee. Currently the Director of Enterprise Information Systems in the Medical Centre of the University of Michigan, Mr. Rogers brings with him years of experience in the development of electronic services and products including service with the American Mathematical Society during the time that organization was developing an on-line version of *Mathematical Reviews*.

The Canadian Mathematical Society is governed by an Executive Committee of eight and a Board of thirty-one directors, approximately half of whom are elected biennially. As 1997 was an election year, the Nominating Committee also devoted a large amount of time to developing a slate of candidates for election. We were gratified by the number of fine people who came forward as candidates and sorry that not all could be elected. In addition to elected members, there are also three Board appointed directors. At the December 1996 meeting of the Society, we welcomed Dr. Jack Mosevich of Harris Investment Management Inc. to the CMS Board of Directors. Dr. Mosevich has had a most impressive career which includes periods of work with Air Canada, Canadian General Electric, Burns Fry Analytics, Merrill Lynch Canada and two universities. Jack is an enthusiastic person with a unshakable conviction about the importance of mathematics in the business world.

This being my last report as Chair of the Nominating Committee, I want to finish with hearty thanks to my committee for its hard work and support in what can be a rather lonely and difficult job. Thank you all most sincerely.

Publications

Thomas S. Salisbury (York) Chair

Hermann Brunner (Memorial)
Gerald Cliff (Alberta)
Donald Dawson (The Fields Institute)
Olga Kharlampovich (McGill)
James Mingo (Queen's)
Charles Patrick (Statistics Canada)
Keith Taylor (Saskatchewan)

The CMS publications committee oversees the publishing activities of the Society. In addition it is the Society's forum for the discussion of matters related to the publication and dissemination of mathematics.

The Canadian Journal of Mathematics (CJM) is one of the Society's two publications devoted entirely to original research of very high quality. It publishes longer research papers.

The Canadian Mathematical Bulletin (CMB) is the other research publication of the Society. It publishes shorter research papers, the maximum published length being 13 pages. Maung Min-Oo of McMaster, replaced Anthony Peirce (also of McMaster), as Editor-in-Chief on September 1, 1996.

The CJM and CMB share a Scientific Editorial Board, made up of the Editors-in-Chief and 12 distinguished Associate Editors. On January 1, 1997, John Friedlander (Toronto), Mark Goresky (Institute for Advanced Studies) and Joe Lipman (Purdue) joined the Scientific Board, replacing Sudarshan Sehgal (Alberta), Cameron Stewart (Waterloo) and Alfred Weiss (Alberta).

The typesetting of the CJM and CMB is carried out at the University of Manitoba, under the supervision of the Society's TeX editor, Michael Doob. The journals are printed at the University of Toronto Press. Starting in 1997, the TeX office is also to assume responsibility for the typesetting of the Royal Society of Canada's publication Comptes rendus mathématiques - Mathematical Reports.

The G. de B. Robinson Award for an outstanding publication was awarded for the first time in 1996. The recipients were Henri Darmon, Steve N. Evans and Edwin A. Perkins, in recognition of papers appearing in the CJM during 1994 or 1995. The 1997 award will be for papers in the CMB during 1995 or 1996.

The Wiley Interscience/CMS Series of Advanced Mathematics Books, edited by Jonathan Borwein and Peter Borwein of Simon Fraser University, publishes research level mathematical monographs. It released five volumes in 1996/1997, and has six volumes in preparation.

The CMS Conference Proceedings Series is edited by Ram Murty of Queens and Niky Kamran of McGill. Volumes are prepared by the CMS, and printed and marketed by the American Mathematical Society. By June 1997, twenty volumes had appeared in the series, with four more in preparation.

The CMS Notes is distributed to all members of the Society. It provides news, announcements of meetings, and other items of general interest to members of the Society. It is edited by S. Swaminathan, of Dalhousie University. In 1998, substantial changes to the appearance of the Notes are planned.

Through the University of Toronto Press, the Society published three scholarly volumes, in celebration of its 50th anniversary. With the appearance of the final volume in 1996, the three volumes are now being marketed as a set.

Crux Mathematicorum with Mathematical Mayhem is a publication devoted to problem solving at the undergraduate and senior secondary school level. It arose from the January 1, 1997 merger of the CMS publication Crux Mathematicorum, with the student run publication Mathematical Mayhem. It publishes articles, problems and solutions, and has regular columns devoted to Olympiads and School Mathematics competitions. With the merger, Crux has an increased focus on material suitable for high schools. Clayton Halfyard (Memorial) replaced Colin Bartholomew as Associate Editor in January 1996.

The Society has developed significant expertise in the growing field of electronic publication. Since September 1996, individual subscribers have had access to CRUX with MAYHEM as an "electronic supplement" on the World Wide Web, through the Society's electronic server Camel. Building on this experience, the CJM and CMB will launch on-line versions in 1998, also through Camel, and with both personal and institutional access. In the near future, portions of the CMS Notes will also be available electronically.

Research

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Kenneth Davidson (Waterloo)
Joel Feldman (UBC)
Chris Godsil (Waterloo)
John Jardin (Western)
Eric Jespers (Memorial)
V. Kumar Murty (Toronto)
Dana Schlomiuk (Montreal)
Nicole Tomczcak-Jaegermann (Alberta)

The 1996 Winter Meeting of the CMS was held in London, Ontario and the 1997 Summer Meeting in Winnipeg, Manitoba. At both meetings there was a Joint Fields Institute/CMS Session. In London, the Fields Institute supported a session on cyclic homology and its applications organized by M. Khalkhali and in Winnipeg, the Fields Institute supported a session on model theory and permutation groups organized by B. Hart and M. Valeriote. The Centre de Recherches Mathématiques (CRM) supported a session in complex analysis and geometry organized by F. Larusson in London. At the conference in Winnipeg, the Pacific Institute for the Mathematical Sciences (PIms) supported a session on group theory and topology which was organized by D. Rolfsen. The support of Canada's research institutes for special sessions at our annual meetings is extremely important and we are grateful for it. I am happy to report that at the 1997 Winter Meeting in Victoria, the CRM, Fields and PIms will each be supporting a session.

At the meeting in London, in addition to the Fields and CRM sessions, there was a session on environmental mathematics organized by B. Moodie and S. Shen, a session in number theory organized by R. Murty, a session in education organized by D. Poole and a session for contributed papers organized by K. Murty. The Winnipeg meeting was held in conjunction with the International Linear Algebra Society (ILAS). In addition to the Fields and PIms sessions, P.N. Shivakumar organized a session on linear algebra, which tied-in with the ILAS. symposium, L. Batten organized a session on finite geometries and applications, K. Nicol and L. Jansson organized a session on education and R. Padmanabhan looked after contributed talks. There was also a graduate students seminar at the Winnipeg meeting.

The Coxeter-James Lecturer at the 1996 Winter Meeting was Nigel Higson of Pennsylvania State University. At the 1997 Summer Meeting there were two prize lectures. The Krieger-Nelson Lecture was delivered by Cathleen Morawetz of the Courant Institute while Stephen Halperin of the University of Toronto gave the Jeffery-Williams Lecture.

A new prize lecture has recently been introduced by the Society, the CMS Doctoral Prize. The first winner of this annual prize is James Geelen of the University of Waterloo. He will be lecturing on his work at the coming Winter Meeting in Victoria.

Our summer and winter meeting locations have been determined up to 2000. They are the following: Winter 1997 (Victoria), Summer 1998 (Saint John), Winter 1998 (Kingston), Summer 1999 (St. John's), Winter 1999 (Montreal), Summer 2000 (Hamilton) and Winter 2000 (Vancouver).

Women in Mathematics

Joan Geramita (Queen's) Chair

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Hermann Brunner (Memorial)
L. Lorne Campbell (Queen's)
Nancy Heckman (UBC)
Lisa Jeffrey (McGill)
June Lester (UNB)
Angelo Mingarelli (Carleton)
Shelley Wismath (Lethbridge)
Richard Wood (Dalhousie)

The Committee for Women in Mathematics (CWM) is charged with monitoring the status of women within the Canadian mathematical community and the Society, recommending actions to the Board which will assure equitable treatment of women there and encouraging the participation of women at all levels of mathematics.

This past year has seen the creation, in cooperation with Camel, of the Directory of Canadian Women in the Mathematical Sciences. The Directory is an indexed collection of home pages of Canadian-connected women actively involved in some aspect of the mathematical sciences. Its development has been funded by a grant from Nancy's Very Own Foundation and supported by the CMS. The Directory is located at: http://camel.math.ca/Women/WMpages/. Nathalie Sinclair at Camel and June Lester of CWM have done the major work in setting up this directory. Joan Geramita was the committee member coordinated the project.

Also on the electronic front, Shelly Wismath has been exploring ways for the committee to facilitate communication among Canadian women mathematicians. There is "space" at the Directory site for growth in this direction.

As part of its role as a liaison with other organizations involved in women and science, the CMS will be joining the Canadian Coalition for Women in Engineering, Science and Technology (CCWEST). This group meets monthly by phone for the purpose of facilitating communication between and among women's groups and with various government agencies. June Lester will be the CMS/CWM representative to CCWEST.

Margaret Beattie of Mount Allison finished an extended term on the Committee in December of 1996, having agreed to serve an extra year as Chair. Lisa Jeffery of McGill joined the committee in January, 1997 and Shelly Wismath took over from Joan Geramita as Chair July, 1997.

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Crux Mathematicorum with Mathematical Mayhem

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Ram Murty (McGill)

CMS Series of Advanced Mathematics Books (SAMB)

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Contributing Editors:
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Contributors

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The Fields Institute for Research in Mathematical Sciences
Government of Alberta, Alberta Education
Government of New Brunswick, Department of Education
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