

**THE MATHEMATICAL ASSOCIATION OF
VICTORIA**

ABN 34 004 892 755



**2006 ANNUAL
REPORT**



MATHEMATICS
- The Way Forward

Registered Office:
"Cliveden"
61 Blyth Street
BRUNSWICK VIC 3056

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This Annual Report of the Mathematical Association of Victoria is to be presented at the Annual General Meeting to be held at 5:30pm on Wednesday, 1 November 2006 at the offices of the Australian Council for Educational Research, 19 Prospect Hill Road, Camberwell 3124

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PRESIDENT'S REPORT

It has been an absolute delight and privilege to hold the office of President of the MAV in the year of our centenary. Through the various Centenary activities we have been able to celebrate the amazing achievements of the MAV, honour the contribution made by our Life Members, acknowledge the important work of previous Councillors and employees of the MAV and share some of the history of the MAV and of mathematics and mathematics teaching with our members. We were also delighted to receive congratulations and commendations from the Australian Association of Mathematics Teachers, the Mathematical Association of America and the Mathematics Association of New South Wales.

OFFICE BEARERS

President:	Colleen Vale
Vice President:	Dave Tout
Secretary:	Max Stephens
Treasurer and Immediate Past President:	Ray Peck

COUNCIL MEMBERS

Monica Baker	Linda Baron	Elizabeth Burns
Jean Carroll	Nadia Cavallin	Michelle Huggan
Cath Pearn	Colin Shnier	Michael Westbrook
Gaye Williams		

MAV STAFF

Executive Officer:	Simon Pryor	
Professional Officers:	Ian Lowe	Shirley Marshall
Finance Officer:	Zofia Wiacek	
Administration:	Darinka Cenko	Michael Green
The Full Pretzel:	Julie Allen	Kristen Morton

ACHIEVEMENTS OF THE MAV IN OUR CENTENARY YEAR

Representation and Advocacy

The Council, staff and members have contributed significantly to the mathematics curriculum policy in Victoria and other matters concerning mathematics teaching and learning in our schools. These activities are briefly described here.

- The Executive met with the Chief Advisor of the Minister for Education and Training concerning the recommendations of the Victoria Parliamentary Inquiry into the Promotion of Mathematics and Science Education. We hope that this successful meeting will provide us with opportunities for the benefit of members and students and to promote mathematics in society.
- The MAV convened a meeting of significant mathematics educators and researchers and the Victorian Curriculum and Assessment Authority (VCAA) to discuss the Victorian Essential Learning Standards (VELS) for Mathematics. As a result, Ian Lowe, professional

officer with the MAV, was contracted to work with the VCAA to redraft the VELs for Mathematics. The Council provided detailed feedback on the draft documents.

- The President, and Vice President, represented the MAV on the Department of Education and Training's (DE&T) reference group for the development of progression points in mathematics and resources for teachers.
- Ian Lowe was contracted to work with the team of educators, convened by the University of Melbourne who were contracted by DE&T to prepare support materials for Progression Points.
- The MAV has also coordinated responses from members to provide feedback to the VCAA on the Progression Points for Mathematics.
- The President represented the MAV on the Victorian Australian School Innovation in Science, Technology and Mathematics (ASISTM) reference group for the Commonwealth's Ministry of Education, Science and Training. This reference group reviewed applications for funding from schools in Victoria and made recommendations to the Curriculum Corporation. I was successful in increasing the emphasis on mathematics through recommendations of projects to be funded.
- We submitted a report to the Victorian Institute of Teaching on the Draft Standards, Guidelines and Process for the Accreditation of Pre-service Teacher Education Courses.
- The MAV contributed to a Position Paper on Early Childhood Mathematics for the AAMT and Early Childhood Australia. Ann Grant, a former Councillor, was the MAV representative for this project and we thank her for her contribution.

Funding of MAV Projects and Activities

This year the Department of Education and Training set up a new process and altered requirements for the funding of professional organisations through its Strategic Partnerships Project. We were required to apply for funding for specific projects rather than general activities of the MAV. Thankfully the MAV had put in place a planning process in 2005 that allowed us to identify key activities and innovations to support our members. We were successful in gaining 3-year funding for the following projects:

- *Valuing and Supporting Regional Mathematics Networks* – Professional learning projects for teachers in rural Victoria
- *Interdisciplinary Learning* – (Mathematics Talent Quest, curriculum materials and professional learning)

In conjunction with the Victorian Association for the Teaching of English (VATE) we also successfully tendered to co-convene the Department of Education and Training's Strategic Partnerships Program 2006 - 2008 Humanities Network.

We have also noted the changes in government policy and programs for professional learning and curriculum development. We have continued to provide advice to schools on mentors for their projects, but the MAV has become more directly involved in the projects and been successful in receiving funding for two further professional learning projects:

- *Linking Students to Employment through Meaningful Mathematics*, an ASISTM project, to work with a cluster of secondary schools to provide professional learning for teachers and trial and develop curriculum materials
- *Supporting Leadership in Mathematics Education in Regional Victoria*, a National Centre for Science, Information and Communication Technology, and Mathematics Education in Rural and Regional Australia (SiMERR) project through the Australian Association of Mathematics Teachers (AAMT), to provide professional learning to mathematics leaders in schools in rural and regional Victoria.

Public Lecture Series

We would sincerely like to thank Marty Ross and Burkard Polster for another terrific season of public lectures at the Melbourne Museum. This program, which allows us to conduct mathematical activities with the general public, is very innovative and highly regarded by our colleagues in other states and countries. We thank them sincerely for their work.

This year we were also able to take the series of lectures to regional Victoria, thanks to a National Science Week Grant from DEST. Marty and Burkard were warmly welcomed and highly acclaimed by the audiences in Bendigo, Castlemaine and Ballarat.

COMMITTEES AND THEIR ACTIVITIES

- Executive and Finance Committee: Convenor Colleen Vale.
- Student Activities Committee: Convenor Mike Westbrook (MTQ, Games Days, Residential Programs, Public Lectures)
- Annual Conference Committee: Convenor Michelle Huggan
- Publications Committee (Journals): Co-Convenors Monica Baker and Colin Shnier, Editors John Gough (*Vinculum*), and Lee Kindler (*Prime Number*)
- Publications Committee (Books): Convenor Dave Tout
- Professional Learning Portfolio: Convenor Colleen Vale, Professional Officers Ian Lowe and Shirley Marshall
- Centenary Committee: Convenor Max Stephens
- Membership and Marketing Committee: Convenor Elizabeth Burns

We have had another successful year with the major programs and activities of the MAV. I would like to thank the teachers and other members who serve on these committees, the convenors and the MAV staff for a wonderful program of activities and publications. We have also maintained and slightly improved our membership and thanks to all the great ideas and hard work made our centenary year very successful financially. The reports of each of these committees can be read in the following pages of this Annual Report. I commend them to you.

SPONSORS

We would also like to thank *all* our sponsors of MAV events and projects conducted in our centenary year. Key contributors have been:

- Texas Instruments (professional learning activities throughout 2005/2006, the Annual Conference and Maths Talent Quest)
- Jacaranda Press (professional learning activities throughout 2005/2006, the Annual Conference, Games Days and Maths Talent Quest)
- The Age (Annual Conference, Maths Talent Quest, Games Days)
- Monash University Faculty of engineering (Maths Talent Quest)
- Melbourne Museum (Public Lectures)
- Department of Education, Science and Training (National Science Week Mathematical Mystery Tour)

NEXT YEAR AND THE NEXT 100 YEARS

The planning days that we began last year and continued this year have been very useful in providing direction to the MAV and its committees. We need to stay responsive to the changing needs of our members and continue to strive to improve our basic services. Maintaining and increasing our membership will be vital. Online delivery of services and transactions will hopefully ease the workload and engage more participants and sales.

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We need to stay innovative with our professional learning program and curriculum materials, and seek to increase involvement in the MTQ and other student activities. The vocational sector and early childhood sector remain on the fringes of our main activities. We hope that Council in the future will continue to engage with these sectors to widen the influence of the MAV to achieve our core objective.

CONCLUDING REMARKS

I would like to pay tribute to work of Dave Tout (Vice President) who will this year leave the MAV Council. Dave has provided outstanding service to the MAV. He brought considerable expertise and knowledge in the area of publishing and has convened the Publications Committee for a number of years. He has also convened Membership and Marketing and been a Vice President three years and AAMT Councillor for two years. Dave has been always willing to give up his time to represent the MAV at various meetings in a formal capacity. He has made significant contributions to tendering for programs and the preparation of submissions and provided valuable insight and practical advice in the deliberations of the Executive and Council. Significantly and importantly Dave been committed to providing resources and services for teachers working with students in the vocational field in schools and TAFE. We thank him for his work and look forward to his ongoing support of the MAV.

Finally I would like to thank sincerely the work of our Councillors, MAV staff and contracted partners. Their time, hard work and commitment to mathematics education in Victoria is greatly appreciated. I would especially like to thank Simon Pryor for his energy and enthusiasm, his capacity to support innovation and change in the MAV and the assistance he has provided me throughout the year. And to our members, I thank you for your involvement and interest and hope that, through your ongoing engagement, the MAV will continue to be a strong, positive and productive influence in mathematics education in Victoria and beyond.

COLLEEN VALE

President

EXECUTIVE OFFICER'S REPORT

EXECUTIVE AND FINANCE COMMITTEE MEMBERS

Colleen Vale, (President)
Dave Tout, (Vice
President)

Ray Peck, (Treasurer and
Immediate Past President)
Max Stephens, (Secretary)

Simon Pryor, (Executive
Officer)

Six years ago the Council affirmed a long-standing arrangement for the governance of the Association by formally delegating the powers of Council between meetings of the Council to the office bearers of the Association serving as an Executive. The MAV convention, however, has been to use this instrument of delegation sparingly. Instead, Council expects that generally the Executive will take responsibility for shaping the business of Council, supervising the work of the MAV office and, especially in the last three years, ensuring that the finances of the Association are closely monitored. During the 2005/2006 Council year the *Executive and Finance Committee* met on ten occasions. There were also several 'round robin' discussions by e-mail as office bearers worked to discharge their responsibilities. Tasks undertaken by the Executive included:

- ✓ Helping Council to shape a number of submissions and reports to government agencies.
- ✓ Assisting the Executive Officer with planning and management advice.
- ✓ An appraisal process for the Executive Officer.
- ✓ Ensuring that day-to-day management and administration policies were reviewed with improvements sought when appropriate.
- ✓ Succession planning.
- ✓ Monitoring the finances and the MAV's financial reporting and working through the Treasurer to ensure Council was able to make informed decisions about budget and finance matters.
- ✓ Overseeing a review of the MAV's banking services and a proposal to change the financial reporting period from July to June to February to January.

The Executive concluded that the MAV would be better served by a change of financial year to bring the Association in line with schools and the Australian Association of Mathematics Teachers. The Executive agreed that the traditional July to June financial year made planning and then monitoring the finances of events such as the Maths Talent Quest difficult as the events themselves tend to run over a calendar year. The Australian Securities and Investment Commission endorsed this change. As a result, from 2007 the financial year will run between 1 February and 31 January of the following year. The Annual General Meeting for 2006 will be asked to endorse a process for managing the transition to this whereby the newly elected Council would serve until April 2008.

By June 2006 the Executive had completed a review of the banking services provided to the MAV. It was decided that a bank that understood the needs of the not-for-profit sector would better serve the Association. As a result, Community Sector Banking, an enterprise jointly owned by the Bendigo Bank and a consortium of peak Australian not-for-profits are now the MAV's banker.

My personal thanks goes to all members of the Executive. They not only provided great support and admirable advice to the Executive Officer of the Association; they took responsibility for the development of the role of Executive Officer and of the professional learning requirements of the incumbent. Too often associations forget this quite fundamental responsibility. This Executive, however, has worked to ensure that the professional development of all MAV staff is attended to.

MAV OFFICE

During the 2005/2006 financial year the MAV has been well served by its staff.

Operationally, staff worked to add new membership services and to refine those already in place. Simply, it is safe to say that, thanks to the hard work of all staff, the MAV office is, at year end, better at doing the basics of running an Association than it was twelve months ago.

Financially, the staff committed themselves early in the year to doing all they could to help mitigate the difficult cash flow of the Association, where the majority of income arrives in December to March and the rest of the year (July to November and April to June) when the MAV spends much more on membership services and professional learning than it receives. This dilemma should not be understated. Assiduous financial management by all staff has been essential to the good financial result achieved in 2005/2006.

At the commencement of the Council year, the staffing structure consisted of; a full time Executive Officer, two part time Professional Officers (Ian Lowe and Jenny Cook), two Administrative Assistants (Marianne Gifford – full time and Michael Green – part time) and a Finance Officer (Zofia Wiacek) working the equivalent of three days a week. In addition, The Full Pretzel were contracted to provide 'in-house' event management services to the MAV, most notably for the Annual Conference, the Maths Talent Quest and the many professional learning sessions offered to members throughout the year.

This structure has served the MAV well and remains in place. There have been changes, though. Marianne Gifford retired at the end of December 2005 and we welcomed Darinka Cenko as her replacement. Jenny Cook took a promotion to Deputy Principal at Forest Hill College at the same time and, after a careful search, Shirley Marshall stepped in as her replacement in March 2006.

Marianne Gifford started as a volunteer in the MAV library and then joined the staff. She provided administrative services to the Association over a number of years. She always put the members first and was always willing to make that extra effort to ensure others in the office had the resources and support necessary to perform their roles. In December we wished her well in her retirement, which, by all reports, looks like being a long and extensive world travelogue! I am pleased to report that Darinka Cenko has turned out to be an admirable replacement; members have responded very positively to her arrival and she and Michael Green together make for a very effective front office team. Indeed, the year has also marked Michael's transition from good to excellent. He is now very definitely a key member of the MAV team.

The Maths Talent Quest is a key element of the MAV calendar. Thanks to the work of past professional officers its focus is very much about working mathematically in the classroom and upon the clear communication of the mathematical ideas underlying that work. Jenny Cook and Kristen Morton (Full Pretzel) spent 2005 streamlining the management of the Quest, much to the delight of teachers in the many schools and classrooms that participated. Jenny Cook also added a school-based focus to our work in providing professional learning opportunities for members and other mathematics educators. She and Ian Lowe did invaluable work working with MAV Councillors to reconfigure our offerings to suit the contemporary landscape. Jenny's stay was brief, but one can hardly stand in the way of a significant opportunity such as a Deputy Principalship. Jenny Cook's contribution will be a lasting one and in any case, we have already been able to maintain a working relationship with Jenny at the local level.

Amongst Ian Lowe's many achievements in 2005/2006, including his PhD work in Milawi and his energetic 'whistle stop' touring across Victoria helping teachers come to grips with the Victorian Essential Learning Standards in Mathematics, two stand out. He has reinvigorated the MAV's publications program. As a result, the MAV now provides a range of resources across all of the school years. Just as importantly, Ian's capacity to write clear, practical advice for teachers about mathematics curricula has enabled the Association to play a very positive role in shaping Departmental and VCAA advice and guidance to schools and

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teachers in 2006. This represents a welcome addition to the MAV's capacity to serve as an advocate for mathematics educators.

The early indications are that Professional Officer Shirley Marshall is an ideal complement to Ian. Shirley has already worked in well with Kristen Morton to run a great Maths Talent Quest for 2006 and has brought a far more professional approach to the management of MAV contracts and relationships with DE&T, the VCAA and our many presenters.

In order to get its finances into shape and provide real value for the membership dollar an Association has to have a great depth of financial understanding. Improvement is unlikely to occur without it. During 2005/2006 Zofia Wiacek has not just kept the books – although they are maintained at a very high standard. She has also overseen processing improvements by enabling the MAV membership database to share information with the MYOB book keeping system. In addition, she has produced reports and analyses for other staff, enabling a better understanding of just how services can be improved while reigning in costs.

The MAV Council agreed with my recommendation that the contract with The Full Pretzel be renewed in January 2006. As already reported, Kristen Morton has developed into a great event coordinator in her own right, making a wonderful contribution to two Maths Talent Quests in a row. She and Full Pretzel owner, Julie Allen have combined to provide great service to the MAV throughout the year by taking the burden of event coordination from our Professional Officers, who, as a result, have been able to use their own expertise as mathematics educators to far greater effect. And then there was the 2005 Annual Conference. The Committee's report for 2005/2006 shows their satisfaction with the excellence of service provided by The Full Pretzel, enabling a very successful and memorable Conference to be run. From the office perspective, the way The Full Pretzel approached the management of this major undertaking was revelatory. Staff were able to maintain a focus on all of the other work of running the MAV right up to the moment we all had to move onto the Conference site at La Trobe University. This stands in stark contrast to the pre Full Pretzel days where membership renewals, solutions to VCE papers, upgrades to the web site and so just had to be pushed to one side all of November, December and January. I am very thankful for the excellence of service provided by The Full Pretzel.

No report of the work of the MAV office in 2005/2006 would be complete without a mention of Councillor Mike Westbrook. Apparently, Mike is a 'retired' mathematics teacher. All this has really meant is that he has given freely of his time on a weekly basis, working as a volunteer at the MAV office. As a result, Maths Games Days and the Maths Talent Quest are in better shape than they have been for a while and student participation in the activities of the MAV is on the rise. Mike has certainly given 'above and beyond' anyone's expectations of him as an MAV Councillor.

SIMON PRYOR
Executive Officer

TREASURER'S REPORT

The 2005/2006 financial year has seen a pleasing turn-a-round in the MAV financial position.

While the previous two years showed *deficits* of \$48 373 in 2004 and \$7975 in 2005, I am very pleased to be able to report an audited *surplus* of \$52 704 at June 2006. This represents an improvement of \$60 679 from the previous year's position. While this result has been due to several factors it must be said that it is largely due to the concerted efforts of all MAV staff.

A second indicator of the improved financial position of the MAV is the positioning of all eight ratios and indicators of risk and profitability in the upper region of comparative industry norms by quartile.

While total revenue in the past financial year declined slightly by \$5991 from \$1 075 046 in 2004/2005 compared to \$1 069 055 in 2005/2006, expenses were \$66 670 lower thereby resulting in the aforementioned \$60 679 improvement. The most significant savings were made in three areas – annual conference, total professional development and salaries. The savings in salaries and professional development was due only to a short term reduction in MAV staffing for a limited period and are not likely to continue into the next reporting period. In fact, the 2006/2007 budget has allowed for an increase in total staff salaries due to an increase in staff numbers and to some staff moving to increased time fractions. This largely reflects the changing nature of MAV services.

Membership showed a very pleasing improvement in terms of numbers and surplus. The membership surplus rose from \$182 224 in 2004/2005 to \$206 166 in 2005/2006. This represented a 13% increase and was better than the 10% increase in membership fees in the same period indicating pleasing cost savings. These savings are thanks to the work of staff and consulting company Carbon Data leading to more efficient database and MYOB management. In the view of Council, compared to other professional associations in education, MAV membership is still relatively low when service provision is taken into account, and represents good value.

The contribution of the 2005 conference was another very significant contributor to the turnaround in MAV finances. The 2004 conference surplus of \$61 900 was improved to \$105 027 in 2005 despite a change of venue. This was largely achieved by careful budgeting and thoughtful cost reductions by Julie Allen and the Conference committee, without any reduction in quality or service.

The ongoing improvement of MAV financial monitoring, banking services and use of new technologies, lead by Executive Officer Simon Pryor and Financial Officer Zofia Wiacek, will I am sure, continue to ensure that the MAV is in a strong financial position to enable the continuation and improvement of quality services to members. In particular, Simon's capacity to provide detailed monthly reports to Council together with careful and skilful budgeting has been a great service to Council and enabled real analysis and planning. Finally, the MAV is deeply indebted to the thoughtful service and advice given by long-serving auditor, Bryan Gibbs. This year, Bryan has overseen the first-time adoption of the International Financial Reporting Standards to MAV finances.

RAY PECK

Treasurer and Immediate Past President

THE MATHEMATICAL ASSOCIATION OF VICTORIA
(A Company Limited By Guarantee)
ACN 004 892 755
DIRECTORS' REPORT FOR THE YEAR ENDED 30TH JUNE 2006

The Directors present the following report for the financial year ended 30 June 2006.

DIRECTORS

Directors holding office any time during or since the end of the year and the number of meetings attended by each director, during 2006, is as follows:

NAME	OCCUPATION	MEETINGS ELIGIBLE	MEETINGS ATTENDED	DATE RETIRED
Monica Baker	Teacher	6	3	
Linda Baron	Teacher	9	7	
Elizabeth Burns	Teacher	9	8	
Jeff Capuano	Teacher	3	3	10 September 2005
Jean Carroll	University Lecturer	6	5	
Nadia Cavallin	Teacher	6	4	
Anne Grant	Teacher	3	3	10 September 2005
Robyn Greenwood	Teacher	3	0	10 September 2005
Michelle Huggan Formerly Michelle Parker	Teacher	9	7	
Cath Pearn	University Lecturer	6	3	
Ray Peck	Research Fellow	9	9	
Anna Scorsonelli	Teacher	3	0	10 September 2005
David Shallcross	University Lecturer	3	2	10 September 2005
Colin Shnier	Teacher	6	5	
Max Stephens	University Lecturer	9	7	
Sharon Taylor	Project Officer	3	2	10 September 2005
David Tout	Adult Education Lecturer	9	8	
Colleen Vale	University Lecturer	9	7	
June Wright	Consultant	3	1	
Michael Westbrook	Retired Teacher	9	8	
Gaye Williams	University Lecturer	6	5	
Peter Wyatt	Teacher	3	0	10 September 2005

RESULT OF OPERATIONS

The operating profit for the year ended 30 June 2006 was \$52,704 (2005 operating loss: \$7,975). As the Association is a non profit organisation, it is tax exempt.

EMPLOYEES

The Association employed 5 employees as at 30 June 2006 (2005: 5 employees).

PRINCIPAL ACTIVITIES

The principal activities of the Association in the course of the financial year were the provision of services aimed at promoting mathematics within the community. No significant change in the nature of these activities occurred during the period.

REVIEW OF OPERATIONS

The results of the operations of the Association during the financial year reflect decisions taken by Directors to further refine the mix of the Association's services within the ongoing framework of strategic planning and priority setting.

SHARE OPTIONS

The Association has not at any time granted to a person an option to issue to him or her shares in the Association.

DIVIDENDS

The Association is a non-profit educational organisation, and accordingly, it does not pay dividends from its profits.

SIGNIFICANT CHANGES IN THE STATE OF AFFAIRS

There has been no significant change in the state of affairs of the Association during the financial year.

SIGNIFICANT AFTER BALANCE DATE EVENTS

Since 30 June 2006, and up to the date of this report, no item, transaction or event of a material and unusual nature has arisen which is likely, in the opinion of the Directors, to affect substantially the operations of the Association or the result of those operations or the state of affairs of the Association for the subsequent financial years.

LIKELY FUTURE DEVELOPMENTS

The likely developments in the operations and Association are set out in the Reports contained in this Annual Report.

DIRECTORS AND OFFICERS INDEMNITY

During the financial year, the Association paid an insurance premium amounting to \$4,892 for Directors and Officers liability insurance for the above named directors and officers.

Signed at Brunswick in accordance with a resolution of the Directors dated this 26th day of September 2006.



RAY PECK
Director



COLLEEN VALE
Director



THE MATHEMATICAL ASSOCIATION OF VICTORIA
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INCOME STATEMENT FOR THE YEAR ENDED 30TH JUNE 2006

	NOTE	2006 \$	2005 \$
Revenue from Ordinary Activities	2	1,069,055	1,075,046
Employee Benefits Expense		(248,696)	(289,042)
Depreciation and Amortisation Expenses		(20,409)	(19,443)
Borrowing Costs		(0)	(4,036)
Publications Printing and Stationery		(178,685)	(199,459)
Consultants and Presenters		(169,064)	(145,188)
Catering Expenses		(90,114)	(114,225)
Other Expenses		(309,383)	(311,628)
Profit from Ordinary Activities before Income Tax		52,704	(7,975)
Income Tax Attributable to Operating Profit	1(c)	-	-
Profit/(Loss) from Ordinary Activities after Income Tax	3	52,704	(7,975)

STATEMENT OF CHANGES IN EQUITY

	Reserve \$	Retained Surplus \$	Total Equity \$
Balance at 1 July 2004	454,056	424,979	879,035
Profit after Tax	-	(7,975)	(7,975)
Balance at 30 June 2005	454,056	417,004	871,060
Profit after Tax	-	52,704	52,704
Balance at 30 June 2006	454,056	469,708	923,764

The accompanying notes form part of the financial statements.

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THE MATHEMATICAL ASSOCIATION OF VICTORIA
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BALANCE SHEET AS AT 30TH JUNE 2006

	Notes	2006 \$	2005 \$
CURRENT ASSETS			
Cash Assets	4	116,255	98,896
Receivables	5	60,124	79,664
Other Financial Assets	6	12,208	7,494
Inventories	7	17,698	19,288
TOTAL CURRENT ASSETS		206,285	205,342
NON CURRENT ASSETS			
Property, Plant and Equipment	8	838,251	832,627
TOTAL NON CURRENT ASSETS		838,251	832,627
TOTAL ASSETS		1,044,536	1,037,696
CURRENT LIABILITIES			
Income Received in Advance		32,000	-
Payables	9	46,062	23,768
Interest Bearing Liabilities	10	1,160	110,064
Provisions	11	41,550	33,077
TOTAL CURRENT LIABILITIES		120,772	166,909
TOTAL LIABILITIES		120,772	166,909
NET ASSETS		923,764	871,060
EQUITY			
Reserves		454,056	454,056
Retained Surplus		469,708	417,004
TOTAL EQUITY	12	923,764	871,060

The accompanying notes form part of the financial statements.

THE MATHEMATICAL ASSOCIATION OF VICTORIA
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STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30TH JUNE 2006

	Note	2006 \$	2005 \$
Cash Flows from Operating Activities			
Receipts from Customers, members and grants		1,303,767	1,214,044
Payments to Suppliers and Employees		(1,159,011)	(1,256,803)
Interest Received		7,540	6,493
Interest and other costs of finance		-	(4,036)
Net Cash from Operating Activities	2	152,296	(40,302)
Cash Flow from Financing Activities			
Repayment of borrowings		(108,904)	-
Net Cash used in Financing Activities	2	(108,904)	-
Cash Flows from Investing Activities			
Payments for Property, Plant and Equipment		(26,033)	(10,659)
Net Cash used in Investing Activities		(26,033)	(10,659)
Net Increase/ (Decrease) in Cash Held		17,359	(50,961)
Cash at the Beginning of the Year		98,896	149,857
Cash at the End of the Year	1	116,255	98,896

NOTES TO THE STATEMENT OF CASH FLOWS

1. Reconciliation of Cash

For the purposes of the statement of cash flows, cash includes cash on hand and in banks with a maturity date no longer than three months net of outstanding bank overdrafts. Cash at the end of the year as shown in the statement of cash flows is reconciled to the related items in the Balance Sheet as follows:

	2006 \$	2005 \$
Cash at Bank	116,255	98,896
	116,255	98,896

2. Reconciliation of net cash provided by operating activities to operating profit after income tax

Operating Profit/(Loss) after Income Tax	52,704	(7,975)
Depreciation	20,409	19,443
Changes in Assets and Liabilities:		
- Decrease/(Increase) in Trade Debtors	19,540	(38,853)
- Decrease/(Increase) in Prepayments	(4,714)	4,281
- Increase/(Decrease) in Income Receive in Advance	32,000	-
- Increase/(Decrease) in Payables	22,294	(35,960)
- Increase/(Decrease) in Provision for Employee Benefits	8,473	4,184
- Decrease/(Increase) in Inventories	1,590	14,578
	152,296	(40,302)



THE MATHEMATICAL ASSOCIATION OF VICTORIA

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**NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS FOR THE YEAR ENDED
30TH JUNE 2006**

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The Mathematical Association of Victoria is incorporated in Australia, as a company limited by guarantee.

Currency

The financial report is presented in Australian dollars.

Registered Office

61 Blyth Street, Brunswick VIC 3056

Authorisation of financial report

The financial report was authorised for issue on 26th September 2006 by the directors.

First-time adoption of International Financial Reporting Standards (AIFRS)

This is the first AIFRS financial report presented by The Mathematical Association of Victoria.

The transition to AIFRS did not result in changes to amounts disclosed in prior years.

The principal accounting policies adopted by the company are stated in order to assist in a general understanding of the financial report.

The company is not a reporting entity because, in the Directors' opinion, there are unlikely to exist users who are unable to command the preparation of reports tailored so as to satisfy specifically all of their information needs. This financial report is therefore a "special purpose financial report" that has been prepared solely to meet the Corporations Act 2001 requirements to prepare financial reports.

The company has applied the following Accounting Standards and other professional reporting requirements in Australia: AASB 101 "Presentation of Financial Statements", "AASB 107 "Cash Flow Statements" and AASB 108 "Accounting Policies, Changes in Accounting Estimates and Errors". No other Accounting Standards have mandatory applicability. The Company however, has adopted the recognition and measurement requirements of the Accounting Standards, with the exception of the disclosure requirements of Accounting Standard AASB 124 "Related Party Disclosures".

THE MATHEMATICAL ASSOCIATION OF VICTORIA

(A Company Limited By Guarantee)

ACN 004 892 755

**NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS FOR THE YEAR ENDED
30TH JUNE 2006**

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONT'D)

First-time adoption of International Financial Reporting Standards (AIFRS) (Cont'd)

Financial report complies with AIFRS

Australian Accounting Standards include Australian equivalents to International Financial Reporting Standards (IFRS). Compliance with Australian equivalents to IFRS (AIFRS) ensures that the financial report complies with IFRS.

(a) Property, Plant and Equipment

Land and buildings are stated at fair value.

All other classes of plant, equipment, furniture and fittings are stated at cost.

When an asset's carrying amount is increased as a result of a revaluation, the increase is, except to the extent that it reverses a revaluation decrease of the same asset previously recognised in profit or loss, credited directly to revaluation reserve.

When an asset's carrying amount is decreased as a result of a revaluation, the decrease is, except to the extent of any credit balance existing in the revaluation reserve in respect of the asset, recognised in profit or loss.

The revaluation surplus is transferred directly to retained earnings when the asset is derecognised.

Items of property, plant and equipment other than freehold land are depreciated at rates considered adequate to write fixed assets off over the period of their estimated useful life.

The following depreciation rates are in use:

Buildings	2% on cost
Plant & Equipment	25% on cost
Furniture & Fittings	9% on cost

(b) Revenue Recognition

(i) Sale of Goods

Revenue from the sale of goods is recognised when control of the goods has passed to the buyer, the amount of revenue can be measured reliably and it is probable that it will be received by the Association.

(ii) Rendering of Services

When the outcome of a contract to provide services can be estimated reliably, revenue is recognised by reference to the percentage of services performed.

(iii) Interest Revenue

Interest revenue is recognised on a time proportionate basis that takes into account the effective yield on the financial asset.

(iv) Membership Fees

Membership fees are recognised when invoiced.

(v) Grants and Sponsorships

Grants and Sponsorships are recognised on receipt.

THE MATHEMATICAL ASSOCIATION OF VICTORIA

(A Company Limited By Guarantee)

ACN 004 892 755

**NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS FOR THE YEAR ENDED
30TH JUNE 2006**

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONT'D)

(c) Income Tax

The Association is a non-profit educational organisation and accordingly it has been exempted from the payment of Income Tax.

(d) Employee Benefits

The following liabilities arising in respect of employee benefits are measured at their nominal amounts:

- wages and salaries and annual leave regardless of whether they are expected to be settled within twelve months of balance date; and
- other employee benefit liabilities which are expected to be settled within twelve months of balance date.

(e) Retirement Benefits

Contributions made by the Association to existing employee contributory superannuation funds (to provide benefits for employees and their dependents on retirement, disability or death) are charged to the Income Statement.

(f) Receivables

Trade accounts receivable, represent the principal amounts due at balance date plus accrued interest and less, where applicable, any unearned income and provisions for doubtful accounts.

(g) Payables

Payables represent the principal amounts outstanding at balance date plus, where applicable, any accrued interest.

(h) Liability of Members

The Association is a company limited by guarantee. The amount of capital which is capable of being called up in the event of and for the purpose of the winding up of the Association is limited to \$20 per member.

(i) Inventories

Inventories comprising \$17,698 are stated at the lower cost net realisable value.

(j) New and Revised Accounting Standards and Interpretations

The Association has adopted all the new and revised Accounting Standards and Interpretations issued by the Australian Accounting Standards Board that are relevant to its operations and effective for annual reporting periods beginning on 1 July 2005.

The directors have considered the new and revised standards and interpretations that have been issued, but are not effective and do not believe that adoption of the new and revised standards and interpretations will have any material impact on the financial statements in future years.

THE MATHEMATICAL ASSOCIATION OF VICTORIA

(A Company Limited By Guarantee)

ACN 004 892 755

**NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS FOR THE YEAR ENDED
30TH JUNE 2006**

	2006 \$	2005 \$
2. REVENUE FROM ORDINARY ACTIVITIES		
Sales Revenue:		
Membership Fees	256,759	232,962
Seminars and Conferences	374,256	380,105
Talent and Student Activities	35,070	43,771
Publications and Solutions	176,488	196,283
Professional Development	141,033	155,745
Grants and Sponsorships	61,852	53,204
	1,045,458	1,062,070
Non-operating Revenue:		
Interest	7,540	6,493
Miscellaneous	16,057	6,483
	1,069,055	1,075,046
3. PROFIT FROM ORDINARY ACTIVITIES		
Profit from ordinary activities includes:		
(a) Crediting		
Interest Received	7,540	6,493
(b) Charging		
Depreciation of:		
- Buildings	5,242	5,242
- Furniture and Fittings	1,019	1,276
- Office Equipment	14,148	12,925
Auditors Remuneration:		
- Auditing the Accounts	5,000	5,000
The auditors did not receive any other benefits.		
Provision for Annual Leave	6,774	1,882
Provision for Long Service Leave	1,699	2,302

THE MATHEMATICAL ASSOCIATION OF VICTORIA

(A Company Limited By Guarantee)

ACN 004 892 755

**NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS FOR THE YEAR ENDED
30TH JUNE 2006**

	2006 \$	2005 \$
4. CASH ASSETS		
Cash at Bank	116,255	98,896
	116,255	98,896
	116,255	98,896
5. RECEIVABLES		
Trade Accounts Receivables	60,124	79,604
Less Provision for Doubtful Debts	-	-
	60,124	79,604
	60,124	79,604
6. OTHER FINANCIAL ASSETS		
Prepayments	12,208	7,494
	12,208	7,494
	12,208	7,494
7. INVENTORIES		
Publications – at cost	17,698	19,288
	17,698	19,288
	17,698	19,288
8. PROPERTY, PLANT AND EQUIPMENT		
Freehold Land At Directors Valuation 30 th June 2003	604,056	604,056
Building At Cost	312,224	312,224
Accumulated Depreciation	(127,006)	(121,764)
	185,218	190,460
	789,274	794,516
Plant, Equipment, Furniture and Fittings- at cost	269,504	243,471
Accumulated Depreciation	(220,527)	(205,360)
	48,977	38,111
	838,251	832,627

THE MATHEMATICAL ASSOCIATION OF VICTORIA

(A Company Limited By Guarantee)

ACN 004 892 755

**NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS FOR THE YEAR ENDED
30TH JUNE 2006**

	2006 \$	2005 \$
8. PROPERTY, PLANT AND EQUIPMENT (Cont'd)		
<p>As at 30th June 2003 the Directors revalued upwards the Association's property at 61 Blyth Street, Brunswick to \$805,000. The Directors when considering the revaluation, took into account advice received through Hocking Stuart, that the likely realisable value for the property in the market would be in the vicinity of \$870,000.</p>		
<u>Freehold Land</u>		
No movement during the Year.	604,056	604,056
<p>Fair value has been calculated on the basis of estimated current market values.</p>		
<u>Buildings</u>		
No Movement during the Year:		
Beginning of Year	190,460	195,702
Depreciation expense	(5,242)	(5,242)
End of Year	185,218	190,460
<u>Plant, Equipment, Furniture and Fittings</u>		
Movement during the Year:		
Beginning of Year	38,111	41,653
Additions	26,033	10,659
Depreciation expense	(15,167)	(14,201)
End of Year	48,977	38,111
9. PAYABLES		
Sundry Creditors and Accruals	46,062	23,768
10. INTEREST BEARING LIABILITIES		
Bank loan	1,160	110,064

THE MATHEMATICAL ASSOCIATION OF VICTORIA

(A Company Limited By Guarantee)

ACN 004 892 755

**NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS FOR THE YEAR ENDED
30TH JUNE 2006**

	2006	2005
	\$	\$
11. PROVISIONS		
Current:		
Employee Benefits	41,550	33,077
	<u>41,550</u>	<u>33,077</u>
12. TOTAL EQUITY		
Asset Revaluation Reserve	454,056	454,056
Retained Surplus	469,708	417,004
	<u>923,764</u>	<u>871,060</u>
<u>Asset Revaluation Reserve</u>		
Balance at beginning of Year	454,056	454,056
Revaluation of Land and Building		-
	<u>454,056</u>	<u>454,056</u>
Balance at end of Year	454,056	454,056
	<u>454,056</u>	<u>454,056</u>
<u>Retained Surplus</u>		
Balance at beginning of Year	417,004	424,979
Net Profit attributable to Members	52,704	(7,975)
	<u>469,708</u>	<u>417,004</u>
Balance at end of Year	469,708	417,004
	<u>469,708</u>	<u>417,004</u>
13. SEGMENT INFORMATION		
The Association provides services aimed at promoting mathematics within Australia.		
14. DIRECTORS' INCOME		
	2006	2005
	\$	\$
Aggregate income received or receivable by Directors	7,471	Nil
	<u>7,471</u>	<u>Nil</u>

THE MATHEMATICAL ASSOCIATION OF VICTORIA
(A Company Limited By Guarantee)
ACN 004 892 755
DIRECTORS' DECLARATION

As detailed in Note 1 to the financial statements, the company is not a reporting entity because, in the Directors' opinion, there are unlikely to exist users who are unable to command the preparation of reports tailored so as to satisfy specifically all of their information needs. This financial report is, therefore a "special purpose financial report" that has been prepared solely to meet the Corporations Act 2001 requirements to prepare a financial report in accordance with the accounting policies outlined in Note 1 to the financial statements.

In the opinion of the Directors:-

- (a) the accompanying financial statements and notes are in accordance with the Corporations Act 2001, comply with Accounting Standards and give a true and fair view of the Association's financial position as at 30 June 2006, and of its performance for the year ended on that date; and
- (b) at the date of this declaration, there are reasonable grounds to believe that the Association will be able to pay its debts as and when they become due and payable.

Signed at Brunswick in accordance with a resolution of the directors dated this 26th day of September 2006.



RAY PECK
Director



COLLEEN VALE
Director

**INDEPENDENT AUDIT REPORT TO THE MEMBERS OF
THE MATHEMATICAL ASSOCIATION OF VICTORIA
ACN 004 892 755**

SCOPE

The financial report and directors' responsibility

The financial report comprises the Statement of Financial Position, Statement of Financial Performance, Statement of Cash Flows, accompanying notes to the financial statements and the Directors' Declaration for The Mathematical Association of Victoria, for the year ended 30 June 2006.

The directors of the association are responsible for the preparation and true and fair presentation of the financial report in accordance with the Corporation Act 2001. This includes responsibility for the maintenance of adequate accounting records and internal controls that are designed to prevent and detect fraud and error, and for the accounting policies and accounting estimates inherent in the financial report.

Audit Approach

We conduct an independent audit in order to express an opinion to the members of the association. Our audit was conducted in accordance with Australian Auditing Standards. In order to provide reasonable assurance as to whether the financial report is free of material misstatement. The nature of an audit is influenced by factors such as the use of professional judgement, selective testing, the inherent limitations of internal controls, and the availability of persuasive rather than conclusive evidence. Therefore, an audit cannot guarantee that all material misstatements have been detected.

We performed procedures to assess whether in all material respects the financial report presents fairly, in accordance with the Corporations Act 2001, including compliance with Accounting Standards and other mandatory financial reporting requirements in Australia, a view which is consistent with our understanding of the company's financial position, and of their performance as represented by the results of their operations and cash flows.

We formed our audit opinion on the basis of these procedures, which included:

- examining, on a test basis, information to provide evidence supporting the amounts and disclosures in the financial report; and
- assessing the appropriateness of the accounting policies and disclosures used and the reasonableness of significant accounting estimates made by the directors.

While we considered the effectiveness of management's internal controls over financial reporting when determining the nature and extent of our procedures, our audit was not designed to provide assurance on internal controls.

Independence

In conducting our audit, we followed applicable independence requirements of Australian professional ethical pronouncements and the Corporations Act 2001.

Audit Opinion

In our opinion, the financial report of The Mathematical Association of Victoria is in accordance with:

- (a) The Corporations Act 2001, including:
 - (i) giving a true and fair view of the association's financial position as at 30 June 2006 and of its performance for the year ended on that date; and
 - (ii) complying with Accounting Standards in Australia and the Corporation Regulations 2001; and
- (b) other mandatory professional reporting requirements in Australia.

A A GIBBS & COMPANY PTY LTD
Chartered Accountants

B A GIBBS
Partner

South Melbourne
26th September 2006

**DISCLAIMER OF OPINION ON DETAILED INCOME AND EXPENDITURE STATEMENTS FOR
THE YEAR ENDED 30TH JUNE 2006**

The detailed income and expenditure statement presented on the following page is in accordance with the books and records of the Association which have been subjected to the auditing procedures applied in our statutory audit of the company for the year ended 30th June 2006.

It will be appreciated that our statutory audit did not cover all details of the additional financial data. Accordingly, we do not express an opinion on such financial data and no warranty of accuracy or reliability is given.

Neither AA Gibbs & Company Pty Ltd nor any of its members or employees undertakes responsibility in any way whatsoever to any person (other than the directors) in respect of such data, including any errors or omissions therein, however caused.

AA GIBBS & COMPANY PTY LTD
Chartered Accountants

South Melbourne

Dated: 26th September 2006

THE MATHEMATICAL ASSOCIATION OF VICTORIA
(A Company Limited By Guarantee)
ACN 004 892 755

DETAILED INCOME AND EXPENDITURE FOR THE PERIOD ENDED 30TH JUNE 2006

	2006	2005
	\$	\$
INCOME		
Conference – December	374,256	380,105
Membership Fees	256,759	232,962
Publications and Solutions	176,488	196,283
Talent Quest and Student Activities	35,070	43,771
Interest Received	7,540	6,493
Professional Development	141,033	155,745
Grants and Sponsorships	61,852	53,204
Miscellaneous Income	16,057	6,483
	\$1,069,055	\$1,075,046
EXPENDITURE		
Advertising and Promotion	30,578	13,750
Affiliation Fees	36,208	34,020
Auditor's Remuneration	5,000	5,000
Bank Charges	9,182	9,481
Catering Expenses	90,114	114,225
Cleaning	6,070	4,805
Consultants and Presenters	169,064	145,188
Courier Service	889	791
Depreciation	20,409	19,443
Equipment Rental	11,998	40,795
Facilities – External	63,307	57,513
Heat, Light and Power	2,611	2,716
Insurance	8,881	21,840
Interest Paid	0	4,036
Long Service Leave	1,699	2,302
Mailing Agents Costs	0	1,465
Office Expenses	16,833	13,870
Postage and Fax	25,457	25,840
Publications, Printing and Stationery	178,685	199,459
Rates and Taxes	3,107	2,312
Repairs and Maintenance	3,610	3,852
Royalties and Authors Fees	38,043	24,751
Staff and Members Amenities	5,560	4,683
Staff Training	1,116	2,014
Subscriptions	1,188	1,254
Superannuation Contributions	19,512	21,837
Telephone	5,760	6,630
Travelling and Accommodation	29,792	29,244
Wages	227,485	264,903
Workcover	4,193	5,002
	1,016,351	1,083,021
Profit (loss) from ordinary activities	\$52,704	\$(7,975)

MAV COMMITTEE REPORTS

42nd ANNUAL CONFERENCE COMMITTEE REPORT

COMMITTEE MEMBER

Sharon Taylor (Convenor) Julie Allen (The Full Pretzel) Anna Austin	Sue Bennett Glenda Bradley Carmel Burgess Ann Downton Sue Fine	Sue Gunningham Michelle Huggan Colleen Vale Mike Westbrook
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The 42nd Annual Conference 'Mathematics - Celebrating Achievement' was held at Latrobe University on 1st and 2nd December 2005. This year saw a change in venue for the conference and from the feedback received this was a positive move.

Following the success from the previous year the MAV decided to once again retain the services of Julie Allen from The Full Pretzel to work with the conference committee to deliver this year's conference.

The 98th Anniversary Lecture was held in the Agora theatre and was delivered by Dr Max Stephens from the University of Melbourne and MAV past president. Max spoke about the history of the Mathematical Association of Victoria and after 100 years what remains important for the teaching and learning of Mathematics.

The conference ended once again on a light-hearted note with Dr Marty Ross and Dr Burkard Polster delivering the topic 'Pulp Fractions: Mathematics, Murder and Mayhem.' Through their presentation Marty and Burkard looked at how mathematicians and mathematics is represented in the movies.

The conference attracted a broad representation from across the Mathematical education community and was attended by 1827 delegates with 40 coming from overseas and 46 from interstate. The conference covered a diverse range of topics and interests, and delegates were able to select from just over 40 options at each session.

The conference featured 31 keynote presentations:

- The One -to One Interview: A Powerful Learning Tool for Teachers - Doug Clarke, Anne Roche and Annie Mitchell
- Food for Thought with Flavors from Asia - Allan White
- Mathematics - Celebrating Achievement - Les Evans
- Photography and Mathematics Classroom (x 2) - Richard Phillips
- Lesson Study: A Professional Learning Model That Actually Makes a Difference - Hilary Hollingsworth and Delwyn Oliver
- Celebrating Achievement in Mathematics Teaching Research and Curriculum - How Does VELS rate? - Dianne Siemon
- Mathematics, Magic and Miracles - Burkard Polster
- Further Mathematics 2006: Changes Big and Small - Peter Jones
- Opening Doors to Successful Number Learning for Those Who are Vulnerable - Ann Gervasoni
- Interdisciplinary Learning -Supporting Achievement in Mathematics - Mark Hennessy
- Time to Re -Focus - Peter Fox
- VCAL -A Personal Journey - Cherilynn Kingston
- Describing, Assessing and Developing Excellence in the Teaching of Mathematics - Barbara Clarke

MATHEMATICS

- The Way Forward

- Team Teaching Mathematics in the Middle Years - Dean Goodridge and Lucy Armstrong
- Engaging Students in Collaborative Activities - Mary Barnes
- CAS: To Everything There is a Season - Sue Garner and Robyn Pierce
- One Hundred! - Andrea Hillbrick
- PISA and TIMSS: Australia's Participation in International Studies in Mathematics - Sue Thomson
- Technology in Mathematics: A Global Perspective - Colleen Vale
- Raising Achievement in Mathematics and its Impact on Whole School Achievement - Graham Corbyn
- Young Children Learn About Patterns and Algebra - Rosemary Irons
- Three Field Perspectives of VELs - Gary Motteram, Sue Young, Nick Butler and Jenny Cook (Moderator)
- Area Puzzling from the Dance of Mathematics - Bill Baritomp
- Encouraging Higher-Order Processing Using Assessment - John Pegg
- A Decade of Australian Primary Numeracy Research: Findings that Matter - Helen Forgasz, Judy Mousley and Susie Groves
- The Curious Incident of the Question in the Classroom - Gail Costello
- Teaching Mathematics in the Middle Years - Thelma Perso
- Dominoes, Donuts and Dollars - Peter deWacht
- Beyond the Student-Centred Classroom: Using International Research to Reconstruct an Old Dichotomy - David Clarke
- Teaching Maths Using Middle Years Pedagogies. Recognising and Understanding Theories - Robyn Crockett

This year also saw the committee trial putting the conference proceedings 'Mathematics Celebrating Achievement' on a CD Rom. This year the proceedings were edited by Judith Mousley, Leicha Bragg and Coral Campbell from Deakin University.

The committee would also like to acknowledge the ongoing support of our major sponsors The Age, Texas Instruments and Jacaranda. It is through their generous support that the MAV is able to provide a conference of this size and scope and we look forward to working with them on future conferences.

Finally, it should be recognized that no Annual Conference would occur without the hard work and dedication shown by the Conference Committee, Julie Allen and her team from the Full Pretzel and the team at the MAV office. They all worked together during the year to ensure that the conference was such a success. I would also like to thank all the presenters for their willingness and enthusiasm to share their knowledge, expertise and experience.

Michelle Huggan

Conference Convenor

PROFESSIONAL DEVELOPMENT

COMMITTEE MEMBERS

Colleen Vale (Convenor)
Linda Baron
Elizabeth Burns
Nadia Cavallin

Andrea Eales
Ian Mills
Colin Shnier
Steve Swenser

Ian Lowe (Professional Officer)
Shirley Marshall (Professional Officer)

PORTFOLIO OPERATION

This year we embarked on a different way of planning and managing the professional learning activities of the MAV. Rather than regular committee meetings we are working as a portfolio with planning days and activities held from time to time and reports to Council. This

change in management has developed because of the change in the nature of programs that we conduct. As well as some one-off activities in a conference or seminar format advertised for all schools, the professional officers have been delivering one-off seminars for member schools and clusters, and we have started to develop programs with clusters of schools that are ongoing and project orientated in their design. Our events manager, The Full Pretzel, has continued to provide great service in the planning and delivery of our one-off activities and we thank Julie and Kristen for their professional approach and expertise.

PROGRAMS

Victorian Essential Learning Standards: Mathematics

Ian Lowe has delivered presentations on VELS and related topics to more than 100 schools and clusters involving 3097 primary teachers and 838 secondary teachers throughout Victoria in 2006. This is a fantastic achievement and we thank and congratulate Ian for this work.

Mathematics Leadership

We conducted another successful program for mathematics leaders this year. We designed this program in particular for leaders in rural and regional Victoria. This work program, and others yet to be conducted, will form the basis of our SiMMER project to support mathematics education in rural and regional Victoria.

Mini-conferences and seminars

This year we scheduled mini-conference days in both rural and metropolitan locations. The VCE days held in February were well attended by 598 teachers. However the primary and secondary days had to be cancelled because of low numbers of registrations. Two seminars on Fractions and Algebra were conducted at the MAV Office, but another two seminars that had been planned were cancelled due to insufficient registrations.

We think that the low interest in these kinds of professional development activities have occurred because of the shift away from one-off activity to extended programs that are favoured by schools and the Department and Regions. We also acknowledge, and also as shown by the huge interest in the VELS presentations, that the recent changes to curriculum have taken up a great deal of teachers' time and commitment in professional development.

CAS calculator program

Sessions that introduce teachers to the possibilities of CAS calculators, along with sessions helping more experienced teachers to push the boundaries, have again been in demand. We thank those MAV members who did put together and conduct a series of programs conducted this year for VCE teachers of mathematics. These programs have been invaluable to the teachers participating.

Professional Learning Activity Team (PLAT)

In order to develop our new approach to professional learning through clusters we invited MAV presenters to attend a meeting to discuss and plan this work. We were delighted with the very positive response to this idea. About 80 people attended one of these meetings; some people traveled a very long distance, such as from Warrnambool, Wodonga and Warragul. Their enthusiasm for the program provides us with a great incentive to develop our approach to meet the needs of clusters of members throughout the state.

Australian School Innovation in Science, Technology and Mathematics project: *Linking Students to Employment through Meaningful Mathematics*

The MAV Professional Officers are working with a cluster of northern suburban schools where for many students traditional mathematics does not relate to employment futures. The MAV began a project this year designed to help mathematics teachers at VCAL and lower levels to form links between local industry and their students, and to reformulate the goals of their mathematics teaching around non-exam oriented outcomes, such as practical numeracy, financial literacy, employability, and access to further education. Outcomes in the following

MATHEMATICS

- The Way Forward

twelve months are expected to support non-traditional goals, new resources and methodologies and links to the community. Teachers will need considerable training and support, and the implications for the rest of the school mathematics curriculum will need to be explored.

The MAV has also agreed to be partners or provide some consultancy services to a number of other ASISTM projects. We will be conducting a seminar for all ASISTM projects at this year's Annual Conference. We hope that this will lead to some exciting publications or journal articles.

COLLEEN VALE

Convenor

PUBLICATIONS REPORTS

BOOKS

COMMITTEE MEMBERS

Dave Tout (Convenor)
Max Stephens

Jeff Castles
Mike Westbrook

Ian Lowe (Professional
Officer)

As reported in last year's Annual Report, the start of 2005 saw the employment at the MAV of Ian Lowe as an MAV Professional Officer, and his vast experience and expertise in publishing maths books has made for a very exciting (and busy) year publications wise. A wide range of new publications have been added to the MAV publications list, including the republishing of some old favourites, and the sourcing of external publications, with some of these being from overseas. Some of these resources included:

- Active Learning CD - Ian Lowe
- Active Learning: Measurement, Chance & Data - Ian Lowe
- Active Learning: Number and algebra - Ian Lowe
- Active Learning: Space - Ian Lowe
- Developing Number - the Association of Maths Teachers from UK)
- Fractions: pikelets and lamingtons
- Mathematics Curriculum Guide - Measurement (reprint)
- Guidelines in Number (reprint)
- Kids, Calculators and Classrooms: using calculators in the primary school - Paul Swan
- Mathematical Problem Solving - the Association of Maths Teachers from UK)
- Maths and Soccer - Ian Lowe and Sharp Tack
- Maths Investigations: a Collection of Open-ended Tasks - Paul Swan
- People Count (CD) - Ian Lowe
- Recreation (CAM) (reprint) - Pat Costello, Peter Jones, Brian Phillips
- RIME 5/6 Activity bank (reprint)
- RIME on CD - Ian Lowe
- RIME: Algebra - Ian Lowe
- RIME: Measurement, Space, Chance & Data - Ian Lowe
- RIME: Number - Ian Lowe
- Starting out: Primary mathematics - Len Sparrow and Paul Swan
- Starting Points (VCE SAC tasks)
- Switch on to Mathematics: Activities in Word, PowerPoint & Excel - Mark Hennessy
- Teaching Problem Solving – Derek Holton et al
- Tuning In with Task Cards - Andrea Hillbrick

A major aim for 2005 was to also improve the quality of the 2006 MAV publications catalogue. This was achieved in a number of ways, including using colour throughout, a redesign of the layout, plus a substantial supplement that aligned a number of the materials

MATHEMATICS

- The Way Forward

against the VELS mathematics standards, and it also included a listing of the MAV's key professional learning activities for 2006. Special thanks must go to Ian for his substantial contributions and work in this area in 2005 and 2006.

In regards to income from the publication and sales of books, 2005/2006 saw a different picture in comparison to the 2004/2005 financial year, although not a great change financially. Our aim last year was that 2006 would see an improvement in the range and quality of MAV publications and therefore a spread of income from across all levels of schooling, with less reliance on sales from VCE related materials. This was achieved and income and expenditure came in relatively close to budget. However, with the end of the series of VCE Written Exam Revision for Mathematics (WERMS) publications the income from VCE sales was substantially lower than in the previous few years. Under the expert guidance of Mike Westbrook, the new editions of the WERMS series, based on the new VCE Study Designs, are being published and rolled out in time for 2007, and this is expected to increase sales income in the forthcoming year.

Another major aim for 2006 was to make the MAV catalogue and all the MAV resources available for purchase via the MAV Website. This endeavour has progressed well with the support and work of Ian, Shirley Marshall and the MAV's web person, Peter Batchelor, and this facility should be available online shortly. This will make the purchase of MAV publications more accessible, and easier and more flexible in terms of searching titles or authors.

DAVE TOUT

Convenor

JOURNALS

COMMITTEE MEMBERS

Monica Baker (Co-
Convenor)
Colin Shnier (Co-
Convenor)
Lynda Ball
Linda Baron

Jean Carroll
John Gough
Marj Horne
Lee Kindler
David Leigh Lancaster
Barbara Martin

David Shallcross
Dave Tout
Jill Vincent
John Vincent
Gaye Williams

The role of the committee is to oversee the two MAV journals, *Prime Number* and *Vinculum*. In 2005/06 these quarterly journals continued their long established service to the mathematics educators community.

Prime Number

The Committee was delighted when Barbara Martin, longstanding co-editor editor of *Prime Number*, was elected as an MAV Life Member. It was a fitting recognition for her considerable service as *Prime Number* editor and to the MAV and the wider mathematics community. Following her retirement as editor, the Committee oversaw an open selection process amongst the members for Barbara's replacement. This resulted in **Lee Kindler's** appointment as editor from the June 2006 edition onwards. The Committee recognised that the new appointment needed to be supported with a renewed effort by the Committee and MAV staff to support *Prime Number's* development by assisting in the sourcing and writing of *Prime Number* articles. This has been a focus for the Committee in the first half of 2006. The next task will be to review and renew the *Prime Number* journal in order to ensure it remains as relevant and useful into the future as it has in the past.

Vinculum

The MAV's journal for secondary schools and teachers has continued to improve each edition. Much of this is due to the editorship of John Gough. However, as John Gough himself reports, the Committee has been "aiding and abetting where they could, especially David Shallcross - Associate Professor and Sub-Dean in Engineering at the University of Melbourne - who is passionate about mathematics in engineering, and about the need to have the best mathematically trained students in engineering - hence his stalwart support and fascinating

contributions and David Leigh-Lancaster (the VCAA's manager of mathematics), as well as the back-page duo, Marty Ross and Burkard Polster (who are enthusiastic university lecturers). These days it's a rare issue that leaves me any space other than the Editorial, or a brief review, unlike earlier times when scarcity of contributions sometimes left me filling most of the pages." Revenue from advertising has enabled the design team at *Publishing Solutions* to bring colour and fresh design ideas to *Vinculum* during 2005/2006 – they are to be congratulated for maintaining the high standards set in 2004 when *Vinculum* was re-launched.

Monica Baker and Colin Shnier
Co-Convenors

MEMBERSHIP, MARKETING & COMMUNICATIONS AND PUBLIC EVENTS COMMITTEE REPORT

COMMITTEE MEMBERS

Elizabeth Burns
(Convenor)
Jean Carroll

Ray Peck
Dave Tout

Simon Pryor (Executive
Officer)

Council allocated a huge portfolio to the Committee for 2005/2006. Fortunately, Council also agreed that the role should change as well, with Councillors encouraged to focus on future strategic directions and not the 'day to day' functions contained in the portfolio. A watching brief, however, was maintained on the general membership recruitment and retention processes undertaken by the MAV office, the ongoing development of the MAV web site, the emerging importance of the Executive Officer's irregular e-mail communication to over 4,500 people in Victoria's mathematics education community, *MAVlist* and the continuing excellence of the series of free Public Lectures at Melbourne Museum.

Membership stood at 1,661 on Tuesday, 15 August 2006. Individual membership of the Association rose by just over 2% over the previous twelve months. Institutional membership fell by 1.2% over the same period. The Committee was pleased that current retention and recruitment efforts help maintain the Association's membership levels. However, it became clear to us that many teachers in many schools, particularly in the primary education sector are not availing themselves of the benefits an MAV membership offers. As a result, the Committee has overseen efforts by the MAV office to obtain up to date information about all schools in Victoria, including those where there are no MAV members and to learn to use the MAV database as a *marketing* tool. The Committee also signed off on a sophisticated survey questionnaire developed by Ray Peck. This will now be used a variety of ways, commencing with interviews and surveys of a specially selected random sample of members and non-members in coming months.

The Committee wishes to see a continuing focus on encouraging teachers to become individual members of their *professional* association. Governments across Australia are actively promoting the idea that there be a focus on the professionalism of teachers – a pleasing change from the days when the paradigm of teacher-as-artisan was often used in academic literature. The MAV needs to be there to support this movement and to add the voice of the profession to bodies such as the Victorian Institute of Teaching. To that end we have encouraged the MAV staff to work on further services to assist an individual member maintain their professional standing and teacher registration. I expect the first phase of this work to be completed shortly

The way we serve and communicate with our members continues to change. *Common Denominator* is now a quarterly publication. *MAVlist* has now matured into the primary communication tool the MAV has for spreading the word about the MAV services to members and non-members alike. The MAV web site underwent a considerable review and upgrade during this financial year. Looking to the future, the Committee has encouraged staff to start developing plans for the use of newer information communication technologies, including podcasting, blogs and wikis.

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Drs Burkard Polster and Marty Ross became the very public face of the MAV during a series of free public lectures presented at Melbourne Museum, Carlton Gardens. During this financial year they delivered six world class lectures:

Quasimodo's Cipher

Lecturer: Dr Burkard Polster

The Da Vinci Code and other mathematical nonsense

Lecturer: Dr Marty Ross

The Mathematics of Magic and Miracles

Lecturer: Dr Burkard Polster

Strange harmonies: the mathematics of music

Lecturer: Dr Marty Ross

The Numbers of Numb3rs

Lecturer: Dr Marty Ross

John Conway: Mathemagician

Lecturer: Dr Burkard Polster

These lectures contribute significantly to the MAV's principal aim to see mathematics valued in society. The MAV owes a debt of gratitude to these two wonderful lecturers. Let us all work to ensure their contribution gains a wider recognition and indeed, continues over ensuing years.

ELIZABETH BURNS

Convenor

STUDENT ACTIVITIES REPORT

The Student Activities portfolio aims to assist members by providing enriching mathematical experiences for their students. Such activities include the Maths Talent Quest, Games Days, Maths Camps and VCE Revision Lectures.

A series of working groups/sub-committees concentrates on a particular aspect of the Student Activities program. These sub-committees ensure that the focus on students and valuing mathematics is maintained.

Maths Talent Quest

Michael Westbrook
(Convenor)
June Penney

Robyn Crockett
Debbie Smith
Michelle Meracis

Shirley Marshall
(Professional Officer)

The Maths Talent Quest is a 'flagship' event for the MAV, and this year saw a further development to the planning and organisation of the Quest. Entry and judging criteria were clearly specified and a judging rubric was incorporated. The status of all entries was tracked by computer recording.

Congratulations to the students and teachers who continue to amaze the judges and help show that mathematics can be relevant, enjoyable and of significance in everyday life.

The MTQ is fortunate to have three major sponsors – Faculty of Science and Engineering La Trobe University, Texas Instruments and Faculty of Engineering Melbourne University - who, together with minor sponsors, allow us to reward the efforts of all participants in the Quest with medallions and certificates.

This year more than 6000 students from 80 schools across Victoria participated with more than 600 entries being forwarded to the State Judging Centre. The quality of the entries was extremely high, making the task of the State-level judges very challenging. Many entries at

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this level, and most likely at the school level, displayed a high standard of creativity and mathematical ability, despite not receiving a significant award.

The committee wishes to thank the many volunteers who assisted with the judging and La Trobe University Union for providing The Odeon as the State Judging Centre and Union Hall as the venue for the Awards Ceremony. Thanks must also go to MAV staff and to Kristen Morton of The Full Pretzel who provided valuable assistance in the planning and organisation throughout the project.

The Awards Ceremony was held at La Trobe University on Friday, 1 September 2006, with an opening address by Associate Professor Grant Cairns (Head of Mathematics, La Trobe University) and entertainment by Sharp Tack Productions who presented two mathematical sketches.

The National Maths Talent Quest is to be held in Adelaide on 28 October. Last year's national entries were highly successful with Victoria winning 1 overall award (for a Yr 4 Class entry) and 6 merit awards. This year Victoria has 11 entries.

Games Days

Games Days are overseen by a small committee - Allason MacNamara (Convenor), Karen McAsey and Michael Westbrook. The focus of this group is to identify areas of common interest in organizing and running Mathematical Games Days in order to provide mutual support. They provide an understanding of the funding and organisational requirements, sponsorship needs and ways in which the MAV may assist and further the goals of these traditionally school-based activities.

In 2006 Games Days were held at:

Year 5	St Catherine's School (Karen McAsey)
Year 6	Genazzano FCJ College (Ritsa Athanasiadis)
Year 7	Overnewton Anglican Community College (Liz Treloar) and at Scotch College (Michele Linossier)
Year 8	Penleigh and Essendon Grammar School (Lucy Smigielski)
Year 9	Brunswick Secondary College (Michael Westbrook)
Year 10	Mt Scopus Memorial College (Allason MacNamara)
Year 11/12	St Michael's Grammar School (Vahe Sargsyan)

Over 1900 students representing 250 schools have taken part.

Online booking is available, and it is envisaged that all locations will take advantage of this procedure as it greatly relieves the demand on the organisers' time.

Major sponsors are Jacaranda Wiley, Pearson Education, Heinemann, Texas Instruments and The Age.

In addition to these statewide events, a number of days have been held on a more local basis. It is hoped that these events will become widespread and a national competition will ensue.

Maths Camps

Michael Westbrook
(Convenor)

Ray Peck
Elizabeth Burns

The National Maths Summer School in Canberra will be held in January 2007. The selection procedure has been broadened and, in addition to answering mathematical questions, applicants are asked about their mathematical experiences and their reasons for attending. Ray Peck and Liz Burns have coordinated the selection for Victorian students and are pleased to report that 12 students have been recommended.

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During the 2004/2005 year the MAV laid the groundwork for a local mathematics camp at some stage in the near future. As a result, an MAV VCE Mathematics Camp at Mt Eliza was planned for January 2006. This camp was to have an enrichment focus with selection based on the strength of a student's written application together with a teacher reference. Unfortunately, due to insufficient applicants, this camp did not proceed. We are now planning a camp for Yr 9/10 students in October 2007 at the Urban Camp, Royal Park, Melbourne.

VCE Revision Lectures

The 2005 VCE Revision Lectures were a great success. 600 students at 5 locations (Glen Waverley SC, Monash Uni Peninsula Campus, William Angus Institute, Sale and Mildura) were offered a full program of support in Specialist Maths, Further Maths and Mathematical Methods. The work of the MAV staff and many experienced practicing teachers in ensuring a quality program was available throughout Victoria must be acknowledged.

The 2006 Revision Lectures were held on 16th and 18th September with 650 students at 6 locations (Brunswick, Frankston, Glen Waverley, Mildura, Sale, and Shepparton).

Maths Trails

The maths trail at Funfields, Whittlesea, did not eventuate but we are currently working with the Australian Institute of Physics on a maths/science trail at Luna Park.

MICHAEL WESTBROOK

Convenor

CENTENARY COMMITTEE REPORT

This year has marked the beginning of the MAV Centenary Celebrations which are expected to continue into 2007. Last Year at the opening of the MAV Annual conference, I was honoured to be invited to look back over the past 100 years and to point out some of the landmark events that have characterised the MAV over its long and distinguished history.

On Saturday 24 June 2006, a centenary dinner was held at The University of Melbourne to mark the centenary of the first meeting. The University of Melbourne was the home of the Melbourne Mathematical Society when it was formed in 1906 under the presidency of Professor Edward J Nanson, and which was later to re-form, still under his presidency, in 1924 as the Mathematical Association of Victoria. Other officer bearers at that time included R J A Barnard and J H Michell. Their names are now part of history and are recalled now only as names of lecture theatres and meeting rooms in the current Department of Mathematics and Statistics at Melbourne.

The dinner was attended by eighty people including the majority of the Life Members of the Association. Our oldest Life Member, Mr Ron Cowban, was unable to attend due to a recent illness but was able to send a letter of congratulations and continued support for the Association. Greetings were also conveyed from the Australian Association of Mathematics Teachers. We were also honoured to have in attendance three former presidents of the Mathematical Association of New South Wales, the second oldest association in Australia, which will celebrate its centenary in 2010. Special thanks need to be paid to Julie Allen and Kristen Morton who coordinated the many details of this special and memorable celebration. Thanks also to The University of Melbourne for making available a very stylish portrait of Nanson which was on display at the dinner – still presiding in a manner of speaking.

Two other "centenary" events are important to mention. One is the publication of *Master Classes in Mathematics*, and the other is the Ken Cunningham Lecture to be given jointly under the auspices of the MAV and the Australian Council of Educational Research. The publication of *Master Classes in Mathematics* is a centrepiece of the celebration of the centenary of the Mathematical Association of Victoria in 2006. The nine papers selected for publication in this book were chosen from a much larger set of talks and presentations given

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to the MAV during the 1950s and 1960s. One reason for the decision to publish this selection is that they show the vitality and energy of the MAV at a specific period of time. This book also shows that the MAV's current goal of *Valuing Mathematics in Society* was seen as fundamentally important fifty years ago.

Several people need to be thanked for their assistance in preparing the book for publication. Athol Saunder assisted in making the original selection of talks, and also assisted with proof-reading drafts of printed copies along with Margaret Thom, Duncan Rasmussen, Shirley Marshall, Michael Westbrook and Frank Barrington. Frank also provided notes on several of the writers and kindly assisted in checking the mathematical notation in several of the chapters. Special thanks are also due to Simon Pryor of the MAV and Elena Cementon and her team at *Publishing Solutions* who provided technical expertise and editorial advice at many stages along the way.

The Cunningham Lecture will be given by the current director of the ACER, Professor Geoff Masters, in honour of the founding director whose paper considering the place of mathematics in the school curriculum is published in *Master Classes in Mathematics*. In his paper, given in 1955, Cunningham described himself as an 'outsider' – as someone who had not taught mathematics. Nevertheless, many of the issues raised in his paper about the role of mathematics as a school subject are just as relevant today. Cunningham's advocacy for greater attention to quantitative literacy is, for example, reflected in the current Programme for International Student Assessment (PISA) in which ACER continues to play a prominent international role.

Perhaps, it is fitting to conclude with some words from a letter of greeting received in August this year from the President and Secretary of the Mathematical Association of America:

The Board of Governors of the Mathematical Association of America takes this opportunity to wish the Mathematical Association of Victoria a very happy 100th birthday. This year (marks) a century of outstanding accomplishment in the service of mathematics and mathematics education in Australia. Your record of dedication to the mathematics teachers in the State of Victoria, and by extension to teachers all over Australia and even the world, has been exemplary.

It has been an honour to work during this past year with many colleagues in the MAV to mark the centenary of our foundation.

MAX STEPHENS

Convenor