THE

AUSTRALIAN

MATHEMATICAL

SOCIETY

(INC)

REPORTS FOR

THE FIFTY-FOURTH ANNUAL GENERAL MEETING

AND THE

ONE HUNDRED AND NINTH COUNCIL MEETING

President's Report Secretary's Report Treasurer's Report Audited Financial Statements Editors' Reports ANZIAM Report

PRESIDENT'S REPORT

NALINI JOSHI

This will be my last report as President of the Australian Mathematical Society. At the September 2010 AGM in Brisbane, I will hand over to the new President, Professor Peter Taylor (University of Melbourne).

To summarise the role of President in a few words, I would say it is like creating a Cubist painting; it needs a simultaneous view of issues from all angles, both internal and external! I am and will continue to be honoured to have been able to act in this role for the Society.

On the internal organisational front this year, we have carried out a revamp of the Gazette, by phasing out technical submitted articles and phasing in commissioned articles. The Gazette now has an advisory panel, Professors Jon Borwein (Newcastle), Kerry Landman (Melbourne) and Mathai Varghese (Adelaide), whose role is to commission expository articles and provide advice to the editors, Drs Amie Albrecht and Kevin White (UniSA), who are also new this year. In January, we had a seamless changeover of Honorary Secretary. Assoc. Professor Peter Stacey (La Trobe University) took over from Assoc. Professor Liz Billington (UQ) and has been doing a wonderful job. We have also been taking action to make the AustMS web-site more electronically agile. We are now at a stage where all members can log-in individually to the site to update their contact details and preferences.

An internal issue important to our profession is the process of encouraging and sustaining younger and early-career mathematicians. We have established the Early Career (EC) workshop preceding the annual meeting as a regular event in our calendar. The EC participants in September 2009 told me how much they appreciated and enjoyed this event. The next EC workshop will be held in Caloundra, just prior to the annual meeting in Brisbane. We now have a student representative on Council, currently Ms Wendy Baratta (Melbourne), who will provide ongoing feedback from our student members. At the Council meeting in September, we will also consider a proposal to offer free membership to students for a period up to ten years.

A second initiative we have established for early career mathematicians is a new award called *Lift-off* Fellowships, with the aim of providing short-term support, including living expenses and travel grants, for students who have recently submitted for examination a highly regarded PhD thesis in the mathematical sciences. Three Lift-off fellowships have been awarded so far this year.

Along the same lines, Council approved a one-off grant of \$25,000 to the Australian Mathematics Trust, to contribute to the support of Olympiad activities. During 2010, government support for the AMT had undergone change and become uncertain. The hope was that our support could help improve future chances of government funding.

We became a "sustaining association" member of AMSI for three years at an annual fee of \$30,000. To improve communication between AMSI and AustMS, an ex-officio position was created on the AMSI board for the AustMS President as non-voting member and conversely a position was created for the AMSI Director on the AustMS Steering Committee. We also made a one-off grant of \$15,000 to AMSI to contribute to the support of the Summer School and vacation scholarships.

NALINI JOSHI

In support of the academic members of our profession, I joined the team led by Assoc Professor Leigh Wood, Chair of our National Education Committee, to develop a national professional development framework for lecturers and tutors in the mathematical sciences. The project was funded as an ALTC Leadership grant and our first workshop will be held immediately following the AustMS annual meeting in September this year.

Externally, we submitted a response to the draft ERA guidelines. Some of our recommendations were adopted by the ARC for the mathematical sciences. In particular, papers containing significant mathematical content published in non-mathematical sciences journals were allowed to be recoded to the mathematical sciences (if the authors verify that the paper contained at least 80% mathematical content) and peer review was adopted as a mechanism for evaluating 20% of output in FoR code 0101 (pure mathematics). I am grateful to the members of the AustMS Ranking Subcommittee who contributed extremely valuable work on the ERA journal rankings process and helped to formulate our submissions to the ARC. The members of this subcommittee are Professors Phil Howlett (UniSA), Michael Murray (Adelaide), David Steel (Wollongong) and Hyam Rubinstein (Melbourne). The work of Dr Ross Moore (Macquarie) was essential throughout this process. The work of this subcommittee will continue.

I was a member of the reference group for the Go8 Review of Education in Mathematics, Data Science and Quantitative Disciplines which released its report on 09 March 2010.

I have participated in discussions on a co-funded research centre in the mathematical sciences with the Director of AMSI, Professor Geoff Prince, and Chairs of ACHMS, Professor Cheryl Praeger, the National Committee for Mathematical Sciences, Professor Hyam Rubenstein, and current and immediate past Presidents of SSAI, Dr Geoff Lee and Professor William Dunsmuir. Geoff Prince, Geoff Lee and myself met with the CEO of the ARC, Professor Margaret Sheil, and the Head of the Physical, Mathematical and Information Sciences Panel, Professor Richard Coleman, on 01 September 2010 to discuss this issue further.

This year, I became a member of the National Committee for Mathematical Sciences of the Academy of Science. The Academy asked me to lead the official delegation from Australia to the General Assembly of the International Mathematical Union, which was held on 16-17 August 2010 in Bangalore, India. This very interesting meeting led me to see the diverse range of actions and explorations that the IMU is undertaking. It convinced me that mathematical groups in Australia must participate more on the international stage. Our experiences have been noticed by the rest of the world. In particular, I was asked to join a working group of the IMU to consider the feasibility of producing an international ranking of journals in the mathematical sciences.

I have had many conversations with leaders and advisors in government bodies and other societies and corresponded with politicians. I have provided interviews on radio, TV and the print media and written two further opinion pieces that were published in the Australian this year. This is a very important part of our work to make sure that the world external to our profession sees and understands our concerns. All of us have to join in! Write a letter to your local member to let them know about your concerns. Participate in dialogue with teachers and school students. Above all, remember to let the world see your passion for mathematics.

Australian Mathematical Society Inc. Secretary's report to Council and the AGM 1. Membership statistics for the period 1/6/09 - 31/7/10

NEW MEMBERS TOTAL: 119

Comprising 38 Ordinary (O), 3 Early Career (EC), 0 Special Education (SE) 1 Reciprocal (Recip) 73 Reduced-rate (RR), 2 Retired (Ret), 0 Life (L).

ABRAMOV, Dr Vyacheslav M (O) AHMED, Mr Alauddin (RR) ALFIFI, Mr Hassan (RR) ALHARTHI, Mr Muteb R (RR) ALI, Mr Yasir (O) ALQAHTANI, Mr Rubayyi Y (RR) ALZUBAIDI, Mr Yassin (RR) ATHANASSENAS, Dr Maria (O) AMSI - Aust Math Scs Inst (Institutional) BADRAN, Mr Alexander J (RR) BARNES, Mr Josef, (RR) BARRY, Dr Steven I (O) BARTLEIT, Mr Nicholas AB (RR) BRERETON, Mr Timothy J (RR) BROWNING, Mrs Sara A (RR) BUKHATWA, Ms Bothaina (RR) BUTLER, Mr Samuel T J (RR) BYCROFT, Miss Clare (Recip) CHARLTON, Dr Philip R (O) CHEN, Mrs Ingrid (RR) CHIODO, Mr Maurice C (RR) CHISHOLM, Miss Rebecca (RR) COUTTS, Mr Don (O) DALEY, Mr Neville (O) DALLASTON, Mr Michael (RR) DARGAVILLE, Steven (RR) DEMIRKALE, Mr Fatih (RR) EDWARDS, Mr James (RR) ELFARD, Mr Ali S (RR) EVANS, Dr Gareth E (EC) FERNANDO, Dr Anthony E (O) FITZPATRICK, Mr Matthew A (RR) FOSTER, Mr James D ((RR) FRANCIS, Mr David B (RR) GAKHOV, Dr Andrii (EC) GHITZA, Dr Alexandru E (O) GUO, Mr Ivan W H (RR)

HACKETT-JONES, Dr Emily (O) HALIMI, Mr Nazer (RR) HARVEY, Dr David M (O) HEIDARIRAD, Ms Zohreh (RR) HEKMATI, Dr Pedram (EC) HEYMAN, Mr Randell (RR) HIBBERD, Dr Katrina E (O) HOLLAND, Mr James N (RR) HOLMES, Dr Cathy A (O) HOWES, Mr Philip T (RR) JACKSON, Mr Daniel R (RR) JHANJEE, Mrs Sangeeta (RR) JIANG, Mr Si Chao R (RR) KAMRAN, Mr Khurran (RR) KANDANAARACHCHI, Ms Sevvandi P (RR) KAULT, Mr Sam (RR) LANGTRY, Dr Timothy N (O) LE GIA, Dr Quoc T (O) LEE, Mr Yuan H (RR) LIU, Dr Yangun (O) LUANGWILAI, Mr Thiansiri (RR) MACNAMARA, Dr Shevarl (O) MAJEED, Miss Saba (RR) McATEER, Mr Stephen (RR) McCORMICK, Ms Laura (RR) McCORMICK, Mr Stephen M (RR) McCOURT, Mr Thomas A (RR) McLAREN, Dr David I (Ret) MELLOR, Mr Vincent A (RR) MENTIPLAY, Mr Daniel F (RR) MEYER, Miss Jahne V (RR) MIKLAVCIC, Prof Stanley J (O) MINCHENKO, Miss Marsha (RR) MOGHADDAM, Mr Amir (RR) MURPHY, Miss Kelly E (RR) NG, Mrs Chooi F (RR) NGUYEN, Ha H N (O)

STEPHAN, Mr Andrew (RR)
STEVENSON, Mr Gregory S D (RR)
SUKHORUKOVA, Dr Nadezda (O)
SUKOCHEV, Prof Fedor (O)
THOMAS, Dr Anne C M (O)
TING, Sai H M (RR) TSARENKO, Maria (RR)
TURETSKY, Mr Daniel (RR)
UGON, Dr Julien (O)
VINOGRADOVA, Dr Elena (O)
WADHWA, Miss Hemlata (RR)
WAN, Mr James G (RR)
WATSON, Dr Neil A (Ret)
WESTERLAND, Dr Craig C (O)
WHEELER, Mr Glen E (RR)
WHYTE, Mr Jason (RR)
WILKINS, Dr Andrew H (O)
WILLIAMS, Dr Simon (O)
WORSLEY, Mrs Susan R (RR)
XU, Mr Honglei (RR) YEVDOKIMOV, Dr Oleksiy (O)
ZHANG, Dr Ruibin (O)
ZUDILIN, Dr Wadim (O)

MEMBERS WHO PASSED AWAY TOTAL:2

DAVIS, Prof C S	HORNBY, Dr Peter G

MEMBERS WHO CANCELLED THEIR MEMBERSHIP TOTAL: 11

BARTOLINI, Ms Loretta D'ARCY, Ms Suzanne DE JONG, Mr Jasper FANG, Miss Y KALISZEWSKI, Prof S P KHOO, Miss Chin Foon MANYEM, Dr Prabhu McCAUGHAN, Dr D J SMITH, Prof S D TRUONG, Mr Steve ZHOU, Mr Bin

MEMBERS DEEMED TO HAVE RESIGNED TOTAL: 27 (Membership status can be resumed by payment of outstanding fees)

ANDERSON, Dr W C BACHTIAR, Mr Al Haji A BALDEAUX, Mr Jan BERTRAM, Dr William BOKOR, Dr Imre CLARK, Dr Alys R CLARKSON, Prof Peter A HAYNES, Mr Christophe HEATHERLY, Dr Henry E JAYNE, Dr Nicola KEELER, Mr Holger P KOWALSKI, Dr Tomasz MALLET, Dr Daniel G McLELLAND, Prof Gordon MURTHY, Mr S V S NG, Dr Meei Pyng OMOLOFE, Mr Babatope PANTON, A/Prof David M PLANK, Dr Ashley W PLANT, Dr Allison RAO, Dr C R A SHELLSHEAR, Mr Evan STEPHENSON, Mr Thomas C SZYMANSKI, Dr Wojciech TANG, Dr Zheng-Xue TERAUDS, Dr Venta

ACCREDITATIONS

5 New Fellows (FAustMS):

BORWEIN, Prof Jonathan M GAUDRY, Prof Garth I LACK, Dr Stephen G STACEY, A/Prof Peter J WANLESS, Dr Ian

4 New Accredited Members (MAustMS):

PINEDA-VILLAVICENCIO, Dr Guillermo	THOMAS, Dr Anne C M
SUKHORUKOVA, Dr Nadezda	UGON, Dr Julien

1 New Graduate Member (GAustMS): COUTTS, Mr Don

TOTAL ACCREDITATION LIST:

Fellow (FAustMS)	112
Accredited Member (MAustMS)	30
Graduate Member (GAustMS)	13

FINANCIAL MEMBERS OF THE SOCIETY :

Membership Ty	p Year 2010	Year 2009	Change
Ordinary	504	512	-8
Reduced Rate	161	120	41
Retired	112	120	-8
Life	59	55	4
Honorary	21	18	3
Reciprocal	39	45	-6
Special Ed	10	10	0
Sustaining	3	3	0
Institutional	5	4	1
Free	20	6	14
Non-Financial	38	38	0
Early Career	28	0	28
TOTAL:	999	931	68

Sustaining members: Prof Nalini Joshi, Mr Raymond R Gatt and Prof R Bartnik.

As of 31/7/10, 122 members (including the above 27 deemed resigned members) have not renewed their 2010 membership.

2. 2010 Subscriptions and Journal Prices to Members

The 53rd Annual General Meeting, held at the Fifty-third meeting of the Society at the Unversity of South Australia, Adelaide, endorsed the decisions of Council and the Australian Mathematical Publishing Association Incorporated that the subscriptions and journal prices to members for 2010 be as follows:

Ordinary Member – \$116	Sustaining Member – \$232
Reciprocal Member – \$58	Reduced Rate Member – $$29$
Retired Member – \$29	Education Member – $$58$
ECR Member - \$58	
Life Membership at Retirement for M	1embers over 55 years – \$390
ANZIAM – \$12, but Reduced Rate M	Member -
Subscription for an Institutional Mem	ber: \$1 338.

Note

- 1. Existing Ordinary Members who renewed their subscriptions before 1st January 2010 were entitled to a rebate of \$5.00, deducted from their payments.
- 2. Members were permitted to pay for up to three years in advance, at the current rate of membership.
- 3. One year's free membership of both AustMS and ANZIAM was offered to all full-time graduate students in Mathematics (including Honours' students), enrolled at an Australian university.
- 4. All new Ordinary Members were entitled to pay their first year's subscription at the concession rate of \$58 (no rebate).

Ordinary, Sustaining, Education & Reciprocal Members	Reduced Rate, Retired Members & Life Members
ety	
\$83.60	\$41.80
\$76	\$38
\$70.40	\$35.20
\$64	\$32
\$77	\$38.50
\$70	\$35
	Ordinary, Sustaining, Education & Reciprocal Members ety \$83.60 \$76 \$70.40 \$64 \$77 \$70

Gazette

Free to all members.

3. The Australian Mathematical Society Medal

In 2009 the Australian Mathematical Society Medal was awarded to Dr Stephen Lack and Dr Ian Wanless.

The 2010 AustMS Medal Committee consists of: Professor B.D. McKay (Chair); Professor A. Ram(Outgoing Chair); Professor B. Andrews (Incoming Chair); Professor F. Sukochev (1 year term).

4. The George Szekeres Medal

The George Szekeres Medal is awarded in even years; in 2008 this medal was awarded to Professor J.H. Rubinstein.

The 2008/10 George Szekeres Medal Committee consists of:

Dr F. de Hoog (Chair); Professor J. Coates^{*} (Outgoing Chair); Professor A.J. Guttmann (Incoming Chair); Professor M.G. Cowling (Member, one yr.).

*(Replacing Prof A.J. van derPoorten)

5. The B.H. Neumann Prize

The 2009 prize was awarded to Samuel Cohen (the University of Adelaide) for his talk entitled Dynamic risk measures and nonlinear expectations with Markov chain noise.

Also special commendations went to:

Michael Pauley (University of Western Australia); Neil Saunders (University of Sydney); Melissa Tracey (Australian National University); Dan Turetsky (Victoria University of Wellington, New Zealand).

6. Annual Meeting

The **Fifty-fifth** Annual Meeting of the Society will be held at the University of Wollongong, from Monday 26th to Thursday 29th September 2011. The Director is Associate Professor D. Pask.

7. Council Members for the session 2009/2010

The $elected^{1}$ Members of Council for this past session, 2009 AGM – 2010 AGM, were:

N. Joshi	
P.G. Taylor	
A.P. Mathas	
E.J. Billington (until $31/12/2009$),	
P.J. Stacey (from $1/1/2010$)	
A. Howe	
J.M. Borwein (2012)	V. Ejov (2010)
D.G. FitzGerald (2010)	M.R. Giudici (2011)
A. Henderson (2011)	B.M. Maenhaut (2012)
A. Ram (2012)	J. Ramagge (2011)
	N. Joshi P.G. Taylor A.P. Mathas E.J. Billington (until 31/12/2009), P.J. Stacey (from 1/1/2010) A. Howe J.M. Borwein (2012) D.G. FitzGerald (2010) A. Henderson (2011) A. Ram (2012)

¹The Secretary and Treasurer are appointed by Council for each session; see the Constitution, VII 34(iii).

The $ex \ officio$ members of Council for the 2009–10 session were:

Vice-President (Annual Conferences): AustMS Member elected to Steering Committee: Representative of ANZIAM:

Vice-President (Chair ANZIAM):

Chair, Standing Committee on Maths Education: Public Officer of both AustMS and AMPAI: Editors:

> Gazette Journal of AustMS ANZIAM Journal Supplement to ANZIAM J. Bulletin Lecture Series Electronic Site

P.G. Howlett (until Feb 2010),
T.R. Marchant (from Feb 2010)
R. Zhang
J.H. Rubinstein
T.R. Marchant (until Feb 2010),
P.G. Howlett (from Feb 2010)
L.N. Wood
P.J. Cossey
A.R. Albrecht/K. White
M.G. Cowling
A.P. Bassom/ G. Hocking
A.J. Roberts

D.E. Taylor

C.E. Praeger R.R. Moore

8. Reciprocity Agreements

The Society currently operates reciprocity agreements with the following societies:

American Mathematical Society	Mathematical Society of Brunei Darussalam
Calcutta Mathematical Society	New Zealand Mathematical Society
Canadian Mathematical Society	Singapore Mathematical Society
Czech Mathematical Society (CMS) an	nd Union of Czech Math'ns and Physicists (JCMF)
Deutsche Mathematiker Vereinigung	Sociedad Matemática Mexicana
Edinburgh Mathematical Society	Société Mathématique de Belgique
European Mathematical Society	Société Mathématique de France
Gesellschaft für Angewandte etc.	Société Mathématique Suisse
Glasgow Mathematical Association	Southeast ASian Mathematical Society
Hong Kong Mathematical Society	Suomen Matemaattinen Yhdistys
Indian Mathematical Society	Svenska Matematikersamfundet
Indonesian Mathematical Society	Islenzka Staerdfraedafelagid
Unión Matemática Argentina	Korean Mathematical Society
Unione Matematica Italiana	London Mathematical Society
Wiskundig Genootschap	Malaysian Mathematical Society
Mathematical Society of Japan	Real Sociedad Matematica Española
Pakistan Mathematical Society	Slovak Mathematical Society

(A list of contact addresses for each of these Societies is available from the Business Office.)

9. Electronic mailing list

The email list is used to send messages likely to be of general interest to members. Between January and August 2010 there were 52 email messages.

To send a message to the list, please email secretary@austms.org.au.

If you are a member of AustMS, are not receiving any email announcements from the Society and wish to do so, please send your email address to secretary@austms.org.au.

10. Honours and letters to members of the Society

During the last session it has been a great pleasure to congratulate the following members or friends of the Society.

Bob Anderssen on the award of the ANZIAM Medal, Gilah Leder on the award of the Felix Klein Medal, Vladimir Bazhanov on election to the Australian Academy of Science, Jon Borwein on election to the Australian Academy of Science, Bill Summerfield on the award of the Medal of the Order of Australia, Bob Anderssen on the award of the Medal of the Order of Australia, Matthew England on the award of a Laureate Fellowship, Amnon Neeman on the award of a Laureate Fellowship.

I also wrote to Mrs Judith Adams, sending condolences on behalf of the Society, on the death of her husband Emeritus Professor Evan Williams.

11. Acknowledgements and thanks

This is my first report to Council and to the Annual General Meeting of the Australian Mathematical Society as Honorary Secretary. I am indebted to my predecessor Liz Billington for leaving the Society's records in excellent order and also for the unstinting generosity she has shown in guiding me through my induction phase (which has lasted all year).

I am also grateful for the help I have received throughout the year from the President, Nalini Joshi, the Treasurer, Algy Howe, the editor of the electronic site, Ross Moore, and all the other editors and officers of the Society. The Secretary gets a chance to glimpse the huge amount of work they all do for the Society, for which all members should be grateful.

I should also like to thank Leslie Elliott from the University of Queensland and Darren Condon from La Trobe University for their help with IT issues, in particular the transfer of the Society's email list from Queensland to La Trobe, and May Truong and the other members of the Society's Business Office for their help throughout the year.

> Peter Stacey 28 August 2010

Department of Mathematics and Statistics La Trobe University Vic 3086 EMAIL: secretary@austms.org.au

AUSTRALIAN MATHEMATICAL SOCIETY INC.

Department of Mathematics John Dedman Mathematical Sciences Building AUSTRALIAN NATIONAL UNIVERSITY ACT 0200 AUSTRALIA Email: austms.admin@anu.edu.au Telephone: (02) 6125 8922 Fax: (02) 6125 8923

Treasurer's Report for June 1st 2009 - May 31st 2010

In the past financial year the Society has provided:

\$1,500 to the Australian Mathematics Trust to help with the individual expenses of members of the Australian Team training for the Mathematical Olympiad Competition \$3,429 to FASTS
\$1,000 to the Victoria Algebra Group
\$1,437 for Science meets Parliament expenses
\$9,353 for student travel grants to the 2009 AustMS AGM, University of South Australia, Adelaide
\$10,000 to StatsPhys 24, 19 -23 July 2010, Cairns Convention Centre
\$3,500 to the Theoretical Phylgenetics Conference, University of Tasmania
\$5,000 to the Geometric Group Theory Conference, University of Queensland
\$4,138 for ARC/ERA Workshop expenses
\$19,000 to the 2010 AustMS AGM, University of South Australia, Adelaide
\$27,000 to the 2010 AustMS AGM, University of Queensland, Brisbane
\$24,000 for AMSI membership

We thank the organizers of the 2009 ERC Workshop for the return of \$694.

At the end of December 2009, the JAustMS paid institution subscription numbers stood at 438, of which 100 institutions paid via their parent consortium. In addition a further 1,126 institutions also get online access via consortia.

For the Bulletin, the paid institution subscription numbers stood at exactly 377, of which 89 institutions paid via their parent consortium. In addition a further 1,128 institutions also get online access via consortia.

In the past year, there has been a downward trend in subscriptions, some of which is migration to consortia. In particular there has been a large drop in Consortia B numbers, in fact: JAustMS 1,298 (2008) -> 1,126 (2009), Bulletin 1,313 -> 1,128 (2009).

According to Roger Astley of Cambridge University Press:

"The drop is down to two main things:

Firstly some developing world, and in particular Eastern European, initiatives for which funding was withdrawn in 2009 (typically this was UN and national governmental funding).

Secondly the major Greek consortium did not pay its bills for 2009. This single consortium accounts for some 50 or 60 institutions all by itself, and provided the Bulletin for instance with around £1,000 of income in 2008. However, since the accounts were completed, we've received some encouraging noises from Greece, and my sales colleagues recently told me that a late payment for 2009 is likely to happen."

Despite a drop in subscription numbers, the total return to the Society for JAustMS and the Bulletin, was almost £121k, which is a pleasing 17% higher than the previous year.

The citations per paper for JAustMS and the Bulletin have again risen this year to 1.87 citations per paper for JAustMS and 1.53 citations per paper for the Bulletin.

Due to ANZIAM J 51(2) October 2009 being published in July 2010, total payments for publication of the ANZIAM J in 2009 have not been received in this financial year.

The continual late publishing of the ANZIAM J is of some concern. Indeed, Roger Ashley of Cambridge University Press remarks: "Authors can sometimes be wary of publishing in a late journal for fear their paper will take an age to appear, and, rightly or wrongly, librarians sometimes use late running as one of their criteria for journals to cut when budgets are exhausted. And of course journals that are running late can see their impact factor decline (people simply pay less attention to late running journals and are less likely to read and therefore cite what is in them), and worse if a journal is consistently late it runs the risk of losing its impact factor altogether."

The Business Office has again been very well run by May Truong, Amy Choo and Michael Foo.

For the period June 1st 2009 - May 31st 2010 the audited financial statements show that our total receipts were \$128,222 and the total payouts were \$163,957 giving an operating profit (loss) of (\$35,734). The receipts include money collected for ANZIAM but not for AMPAI.

It is well known that AMPAI pays for much of the expenses of the Society. The full production costs for the Gazette, paid by AMPAI, was \$40,677. This financial year AMPAI made a profit of \$61,960. Taking into account the fact that the Society made a profit (loss) of (\$35,734), we see that the combined profits of the Society and AMPAI, over this financial year, is \$26,226.

The Society's income was made up from:

	Total subscriptions from Members (including ANZIAM and accreditations)	\$79 <i>,</i> 283
	Copyright royalties	\$651
	Interest income	\$35,593
	Advertising (Gazette)	\$470
	Counting Australia In	\$589
	ARC Contract (ranking of mathematical science journals)	\$10,000
The payme	ents were:	
	Officers expenses	\$7,210
	Grants	\$102,012
	AMSI payment	\$24,000
	Transfer to ANZIAM (subscriptions: \$4,452, subvention \$10,377)	\$14,829
	Bank, credit card and eway fees	\$2,262
	Storage of journals	\$3,243
	Miscellaneous insurance	\$2,898
	Mathematics promotion (Terry Tao)	\$5 <i>,</i> 585

Total paid up membership at 20th July 2010 was 914 (non-financial members are not included).

	July	July
	2010	2009
Fellows	107	107
Graduate Members	11	12
Accredited Members	27	25
Ordinary Members	502	541
Reduced rate Members	156	125
Early Career Members	28	
Reciprocal Members	39	52
Education Members	10	10
Non-financial Members	38	45
(officials from other societies)		
Honorary Members	21	18
Free Members	21	6
Life Members	59	55
Retired Members	113	126
Deceased Members	2	7
Resigned Members	11	21
Deemed Resigned Members	26	45
New Members	145	70
Institutional Member	: Auchmuty Library University of Newcastle, Mathematical Sciences Institute Australian National University, School of Mathematical Sciences University of Adelaide, Department of Mathematics La Trobe University AMSI	
Sustaining Members	: Mr R R Gatt, Prof	Nalini Joshi

Algy Howe Treasurer 16th August 2010

Australian Mathematical Society

ABN 80 494 677 202

Financial Statements For the year ended 31 May 2010

Australian Mathematical Society ABN 80 494 677 202

Contents	
Committee's Report	3
Income and Expenditure Statement	5
Detailed Balance Sheet	7
Notes to the Financial Statements	9
Statement by Members of the Committee	11
Independent Audit Report to the Members	12
Certificate by Member of the Committee	13

Australian Mathematical Society ABN 80 494 677 202 Committee's Report For the year ended 31 May 2010

Your committee members submit the financial accounts of the Australian Mathematical Society for the financial year ended 31 May 2010.

Committee Members

The names of committee members at the date of this report are:

Nalini Joshi Algy Howe Peter G Taylor Andrew Mathas Peter J Stacey Michael Cowling Michael R Giudici Jonathan M Borwein Anthony Henderson Jacqui Ramagge Vladimir Ejov Ross R Moore Barbara Maenhaut Anthony J Roberts Arun Ram Des Fitzgerald Don E Taylor Phil G Howlett Amie R Albrecht P John Cossey Cheryl E Praeger Tim R Marchant **Rubin Zhang** Leigh Wood Kevin White Andrew P Bassom

Principal Activities

The principal activities of the association during the financial year were: fostering communication among its members; organising and supporting mathematical conferences in Australasia; giving grants; awarding prizes and making the community aware of mathematics.

Significant Changes

No significant change in the nature of these activities occurred during the year.

Operating Result

The deficit from ordinary activities after providing for income tax amounted to

Year ended

Year ended

Australian Mathematical Society ABN 80 494 677 202 Committee's Report For the year ended 31 May 2010

31 May 2010	PrevYearEnd	
\$	\$	
(35,734)	99,021	

Signed in accordance with a resolution of the Members of the Committee on 20 July, 2010:

Nalini Joshi

Algy Howe

The accompanying notes form part of these financial statements.

Australian Mathematical Society ABN 80 494 677 202 Income and Expenditure Statement For the year ended 31 May 2010

	2010	2009		
	\$	\$		
Income				
Subscriptions	79,283	71,793		
Interest received	35,594	69,648		
Other income	13,347	13,643		
Total income	128,223	155,084		
Expenses				
Officers Expenses	7,211	12,320		
Total Grants	102,012	36,247		
Administration	4,085	2,000		
Advertising and promotion	5,585	1,868		
AMSI payment	24,000			
Bank Fees And Charges	5	15		
Commission	1,755	1,465		
Fees & charges	502	452		
Insurance	2,899	2,514		
Pitman bequest interest	154	340		
Purchase of surplus journals AMPAI	10,069	(6,770)		
Postage	1,556	2,054		
Repairs & maintenance	629	608		
Storage	3,243	2,948		
Sundry expenses	254			
Total expenses	163,957	56,063		
Profit (loss) from ordinary activities before income tax	(35,734)	99,021		
Income tax revenue relating to ordinary activities				
Net profit (loss) attributable to the association	(35,734)	99,021		
Total changes in equity of the association	(35,734)	99,021		
Onoming rotained profits	510 484	411.463		
Net profit (loss) attributable to the association	(35.734)	99,021		
Closing notained profits	474.750	510.484		
Closing retained profits				

The accompanying notes form part of these financial statements.

Australian Mathematical Society ABN 80 494 677 202 Detailed Balance Sheet As At 31 May 2010

	Note		2009 \$	
Current Assets				
Cash Assets				
Cash At Bank - CBA Current A/C		31,686	89,181	
CBA Cash Management Trust		293,836	284,971	
CBA Term Deposit 1		366,489	353,124	
CBA Term Deposit 2		366,489	353,124	
·		1,058,499	1,080,401	
Receivables				
Accounts Receivable		8,900	7,178	
Accounts Receivable		8,900	7,178	
Other				
Lournale On Hand		3,302	13,313	
Journals On Hand		3,302	13,313	
Total Current Assets		1,070,702	1,100,892	
Non-Current Assets				
Property, Plant and Equipment				
Office equipment		34,542	34,542	
Less: Accumulated amortisation		(34,542)	(34,542)	
Total Non-Current Assets				
Total Assets		1,070,702	1,100,892	

Australian Mathematical Society ABN 80 494 677 202 Detailed Balance Sheet As At 31 May 2010

	Note	2010	2009
		\$	ð
Current Liabilities			
Other			
Subscriptions in advance	-	54,428	48,883
		54,428	48,883
Total Current Liabilities		54,428	48,883
Total Liabilities		54,428	48,883
Net Assets		1,016,274	1,052,009
Members' Funds			
Reserves			
Net Assets		541,524	560,337
Years Earnings			(18,813)
A commuted surplus (deficit)		474,750	510,484

Total Members' Funds

1,016,274

1,052,009

The accompanying notes form part of these financial statements.

Australian Mathematical Society ABN 80 494 677 202 Notes to the Financial Statements For the year ended 31 May 2010

Note 1: Statement of Significant Accounting Policies

This financial report is a special purpose financial report prepared in order to satisfy the financial reporting requirements of the Associations Incorporations Act. The committee has determined that the association is not a reporting entity.

The report has been prepared in accordance with the requirements of the Associations Incorporation Act and the following Australian Accounting Standards:

AASB 112:	Income Taxes
AASB 1031:	Materiality
AASB 110:	Events after the Balance Sheet Date
AASB 117:	Leases

No other Australian Accounting Standards or other authoritative pronouncements of the Australian Accounting Standards Board have been applied.

The financial report has been prepared on an accruals basis and is based on historic costs and does not take into account changing money values, or except where specifically stated, current valuations of non-current assets.

The following specific accounting policies, which are consistent with the previous period unless otherwise stated, have been adopted in the preparation of this financial report:

(a) Fixed Assets

Leasehold improvements and office equipment are carried at cost less, where applicable, any accumulated depreciation.

The depreciable amount of all fixed assets are depreciated over the useful lives of the assets to the association commencing from the time the asset is held ready for use. Leasehold improvements are amortised over the shorter of either the unexpired period of the lease or the estimated useful lives of the improvements.

Australian Mathematical Society ABN 80 494 677 202 Statement by Members of the Committee For the year ended 31 May 2010

The Committee has determined that the association is not a reporting entity and that this special purpose financial report should be prepared in accordance with the accounting policies outlined in Note 1 to the financial statements.

In the opinion of the Committee the Income and Expenditure Statement, Statement of Financial Position, and Notes to the Financial Statements:

- 1. Presents fairly the financial position of Australian Mathematical Society as at 31 May 2010 and its performance for the year ended on that date.
- 2. At the date of this statement, there are reasonable grounds to believe that the association will be able to pay its debts as and when they fall due.

This statement is made in accordance with a resolution of the Committee and is signed for and on behalf of the Committee by:

Nalini Joshi President

Algy Howe Treasurer

20 July, 2010

Australian Mathematical Society ABN 80 494 677 202 Independent Audit Report to the Members

Scope

We have audited the attached financial report, being a special purpose financial report comprising the Statement by Members of the Committee, Statement of Financial Performance, Statement of Financial Position, and Notes to the Financial Statements for the year ended 31 May 2010 of Australian Mathematical Society. The Committee is responsible for the financial report and has determined that the accounting policies used and described in Note 1 to the financial statements which form part of the financial report are appropriate to meet the requirements of the Associations Incorporations Act of the Australian Capital Territory and are appropriate to meet the needs of the members. We have conducted an independent audit of this financial report in order to express an opinion on it to the members of Australian Mathematical Society. No opinion is expressed as to whether the accounting policies used are appropriate to the needs of the members.

The financial statements have been prepared for the purpose of fulfilling the requirements of the Associations Incorporation Act of the Australian Capital Territory. We disclaim any assumption of responsibility for any reliance on this report or on the financial report to which it relates to any person other than the members, or for any purpose other than that for which it was prepared.

Our audit has been conducted in accordance with Australian Auditing Standards. Our procedures included examination, on a test basis, of evidence supporting the amounts and other disclosures in the financial report, and the evaluation of significant accounting estimates. These procedures have been undertaken to form an opinion whether, in all material respects, the financial report is presented fairly in accordance with the accounting policies described in Note 1 so as to present a view which is consistent with our understanding of the association's financial position, and performance as represented by the results of its operations and its cash flows. These policies do not require the application of all Accounting Standards and other mandatory professional reporting requirements in Australia.

The audit opinion expressed in this report has been formed on the above basis.

Audit opinion

In our opinion, the financial report presents fairly, in accordance with the accounting policies described in Note 1 to the financial statements, the financial position of Australian Mathematical Society as at 31 May 2010 and the results of its operations for the year then ended.

Signed on 20 July, 2010:

James Daniels, Federation Tax & Accounting 116 Crawford Street Queanbeyan NSW

Australian Mathematical Society ABN 80 494 677 202 Certificate by Member of the Committee For the year ended 31 May 2010

I, Nalini Joshi of 61 Victoria Street Lewisham NSW, and I, Algy Howe of 36 Balfour Crescent Wanniassa ACT certify that:

- 1. We are members of the Committee of the Australian Mathematical Society.
- 2. We attended the annual general meeting of the association held on 20/07/2010.
- 3. We are authorised by the attached resolution of the Committee to sign this certificate.
- 4. This annual statement was submitted to the members of the association at its annual general meeting.

Nalini Joshi Committee Member

Algy Howe Committee Member

20 July, 2010

The accompanying notes form part of these financial statements.

2010 Editor's Report to Council

I. Editorial arrangements

The team of Associate Editors is currently as follows:

L. M. Batten	C. D. Hodgson	A. J. Pryde
F. Calegari	M. G. Jackson	I. E. Shparlinski
J. Du	V. Jeyakumar	V. T. Stefanov
P. C. Fenton	J. J. Koliha	T. Tao
B. J. Gardner	M. K. Murray	G. A. Willis
A. M. Hassell	E. A. O'Brien	

Gardner and Murray are the latest additions to the team of the Editorial Board. The larger number of submissions (see below) requires a larger editorial board.

Cambridge University Press manages the publishing and distribution, and Sunrise Setting of Devon handles the typesetting.

The Secretary for the Journal is Judy Gregory.

II. General Comments

- (a) Cambridge University Press continues the production and distribution of the Journal.
- (b) Many people deserve thanks for their work in producing the Journal:
 - Special thanks go to the Secretary, Judy Gregory, who has helped enormously by keeping all the processes going.
 - We thank the Associate Editors for their work in getting papers assessed and their efforts to improve the quality of papers published. Their work is essential for the Journal and a very valuable contribution to the Australian Mathematical Society. We also thank the Associate Editors for their suggestions to help make online submissions an efficient manner of submitting and processing papers. The Office is keeping comments which arise from the use of the website, and it is clear that this needs further improvement.
 - Special thanks go to Tony Roberts of the University of Adelaide for his work in setting up the OJS website and for his remarkable patience in dealing with many queries from the office, authors and Associate Editors.
- (c) All efforts are being made to encourage online submission of papers. The Secretary and Editor routinely reply to new authors with the advice that they should submit their paper to our website, and Associate Editors have been requested to do likewise. This is the first

year where all papers dealt with have been submitted online. The backlog of papers submitted manually is now exhausted.

- (d) The number of papers received climbed dramatically in the first year of online submissions but has now returned to more normal numbers. We still have more submissions than we can publish, and continue to attempt to raise the level of papers being accepted in order to improve standards.
- (e) The increase in author-initiated correspondence has led to a corresponding substantial increase in the workload of the Editor, Associate Editors and Secretary. Office records show a continuing increase in the volume of incoming and outgoing email. All papers are now being submitted electronically, but there has been a steady increase in authors' email enquiries about the status of their paper and the expected date of publication of accepted papers. In principle, authors who submitted their papers online are able to track the progress of their papers, thus reducing the number of email enquiries sent to the office; in practice this does not happen.
- (f) The Journal encourages Associate Editors to reject papers without refereeing, selecting only more promising manuscripts for refereeing. This policy helps with our space and backlog problems and is actually beneficial to many authors. The rate of rejection of papers without refereeing has decreased from the unusually high levels of 30% to 50% maintained over the last 4 years, and has returned to normal levels of about 20%, as the backlog is now quite small.
- (g) Finding referees remains a problem. Refereeing is a task with little recognition and academics are under pressure to devote their efforts to publishing more frequently.
- (h) This year USA, Japan, Spain, UK and Australia head the list of countries for papers published.
- (i) CUP requested a change in procedures regarding the checking of copyright forms. The Melbourne office sends these forms to authors when the final version of the files for the paper have been received and approved. The author posts the signed and dated original copyright transfer forms to the Melbourne Office, from where an acknowledgement is sent to the author. CUP, the Printers and the Editor are sent weekly updates. The forms are scanned, and a CD of the forms sent to Canberra for the archives. This system is working well.

III. General publication data

The state of publication at 30 June (for comparability with other years) is:

(a) published	Volume 88 part 3 (June 2010)
(b) expected soon	Volume 89 part 1 (Aug 2010)
(c) being typeset	Volume 89 part 2 (Oct 2010)

The Journal continues to be published in three parts per volume with two volumes per year. Normally there are 430 pages (which includes some blanks) plus 2 index pages in each volume.

IV. Average publication delay

The average publication delay for recent volumes is shown below. As may be seen from the past years, the publication delay has improved considerably in the past year. As in previous years there are a number of very slow papers that increase the average delay in publication. The most recent figures are a marked improvement.

	Months from receipt to publication	Months from revision to publication
Volume 86(3) June 2009	24.8	17.2
Volume 87(1) Aug 2009	24.5	11.0
Volume 87(2) Oct 2009	21.4	11.7
Volume 87(3) Dec 2009	18.5	18.3
Volume 88(1) Feb 2010	17.3	19.7
Volume 88(2) April 2010	12.9	4.6
Average 2009- 2010	19.9	10.4
Average 2008-2009	27	15

V. Backlog

The backlog of accepted papers waiting to be processed for publication by Cambridge University Press now stands at **17**, the lowest for many years. Some priority has been given to papers by authors based in Australia and New Zealand, and to various special circumstances.

VI. Papers received and processed during the period of this report.

A total of 231 papers were dealt with during the period, a return to the average number in previous years, after a spike of 323 last year.

The number of papers that are rejected without refereeing has stabilised at 42.

Papers that were published came from 22 countries. The five countries below had 3 or more papers accepted for publication, the remaining 17 countries had 1 - 2 papers.

	Country	Papers published
		June 2009-April 2010
1	USA	5
2	Japan	4
2	Spain	4
2	UK	4
4	Australia	3

The following table summarises the papers received in the period from May 2009 to April 2010. This year, as in previous years, the Editor, saving the Associate Editors work and time, and the authors the annoyance of a rejection after a long wait, rejected many papers that did not appear

to be competitive. The papers returned without refereeing are included in the total of rejected papers.

Unassigned, i.e., waiting for Editor	5
to assign or reject without refereeing	
In Review (with Associate Editor)	54
Archived: Rejected	148
Archived: Declined (No Referee)	41
Withdrawn	2
Total Rejected	189
Total Accepted	40
Total number of papers	231

Summary of total papers both 'old system' and 'online'.	Total 07-08	Total 08-09	Total 09-10	
Accepted	37	22	40	
Rejected	167	242	189	
Withdrawn	1	2	2	
Received and dealt with	272	323*	231	
Acceptance rate (%)	13.6%	6.8%	17.3%	

* this is an increase of 63% in submissions over the last 2 years.

Michael Cowling Editor

ANZIAM Journal Editors' report to Council 2010

We took over as co-editors of the journal after the ANZIAM meeting in Queenstown in February, 2010. We soon discovered that the journal was in disarray. There were some 60 submitted papers dating back up to 9 months that had never been assigned to an Associate Editor. We subsequently found that there were at least another 30 papers going back several years (as far as 2007) that had been "hidden" on the journal web page and had not been dealt with at all. Together with the 30-40 submissions since that time we have jointly dealt with around 140 papers in 6 months. Many of these papers have had to be rejected as inappropriate for the journal or just not up to standard probably around 60-80%.

Over this period a number of Associate Editors have resigned or retired. These are Peter Kloeden, Angus Hurst, Bruce Craven, Antoinette Tordesillas, Adrian Koerber, Jim Hill, Alexei Filinkov and Tony Bracken and we thank these people for their efforts over the years. We suggest that the AustMS/ANZIAM Chair should write them a letter of thanks from Aust MS/ANZIAM.

Several new Associate Editors have been added to the list, including Kerry Landman (Melbourne), Mike Plank (Canterbury, NZ) and Markus Hegland (ANU) and we welcome them to the fold. We are actively seeking to add at least a couple more associates to strengthen the team.

Work is continuing to tidy up and modernize/modify the submission process so that all papers go through the Co-Editors instead of the Associate Editors. This should streamline the process and create a shorter turnover time for papers and also give us greater control of the process.

Current status of issues; 51(3) January, 2010 we have 114 out of a required 142 pages. 51(4) April, 2010 we have 15 pages

At time of writing we estimate about 95 pages close to acceptance. This means we are about 70 pages short of the April issue. However we are optimistic that these may be filled reasonably quickly.

It is our intention as the journal organization gets close to reasonable to advertise within the ANZIAM community for support and more papers.

All in all this has been a tough time for the journal but we are feeling that we are just about getting to grips with the enormous backlog and can see the light at the end of the tunnel.

Andrew Bassom and Graeme Hocking Co-Editors (ANZIAM Journal) August 2010

Editor's Report to Council 2010

Editorial arrangements

The management of copyright transfer agreements continues to be dealt with by Judy Gregory in Melbourne. And in December 2009 a student, Mark Greenaway, was appointed to a casual Editorial Assistant position in Sydney. Mark takes care of some tasks associated with the collecting and recording of data when a paper is first submitted. However, from January 2009, the Bulletin has operated largely without local editorial assistance for many of the more time-consuming tasks which previously were handled by Ros Clothier in Brisbane.

As recommended in my previous report, in order to ensure continuity at the end of my term of office and to provide backup when I am unavailable, I once again recommend that the Society give consideration to the appointment of a Deputy Editor or Editor-Elect.

The Associate Editors continue to play an essential role in ensuring the rapid processing of submissions; I thank them for their continuing support. Professors Alan McIntosh and Neil Trudinger have resigned from the Board and I thank them for their many years of excellent service. In 2010 the Bulletin welcomed Associate Professors Joseph Grotowski (University of Queensland) and Bob Howlett (University of Sydney) to the team.

Publication arrangements

In December 2009, with the assistance of Ross Moore, a Google Apps account was established for the Bulletin using the domain <u>bulletin.austms.org.au</u>. As a result, the Bulletin uses the email address <u>editor@bulletin.austms.org.au</u> for all editorial correspondence. This separation of editorial correspondence from my other email has greatly improved the efficiency of the publication process.

The Bulletin continues to use the Open Journal System (OJS) for on-line submission management. Almost all submissions arrive via OJS. There are a few papers submitted by email to the Brisbane office and these are automatically forwarded to <u>editor@bulletin.austms.org.au</u>. However, I believe that sufficient time has elapsed since the transition to OJS it would be appropriate to close the Brisbane address <u>ams@maths.uq.edu.au</u>, perhaps by sending an automated reply to the author to submit through OJS.

During the year several alternatives to the OJS were investigated but to date no decision has been made to move to a new system. It is still the case that the OJS is used only for the author submission and the initial cull. Once a paper is sent to an Associate Editor or referee for review all correspondence is carried out by email. The OJS in common with the other systems investigated is able to manage papers from submission through to on-line and paper publication, including tracking referees, copy-editing, layout and proof reading. But because the Bulletin has delegated most of these activities to Cambridge University Press (CUP) there are many more options exposed to authors and editors than are needed. The OJS is "open source" and so if a programmer could be employed to customise OJS (mainly by hiding or removing unwanted details) this would make the system a lot more usable.

Nevertheless, whichever system is used, authors cannot be relied upon to enter their meta-data accurately. It is always necessary to check each entry for missing author names, spelling or typing errors, and missing affiliation and country of origin data.

Publication via Cambridge University Press (CUP) continues at the rate of two volumes per year with three issues per volume, 176 pages per issue.

CUP outsources the copy editing to Sunrise Settings (AZ) and the TeX-based typesetting is handled by River Valley Technologies (RVT). A LaTeX class file based on the one used by CUP and RVT may be downloaded by authors from the Bulletin web site

Publication data by region

		2006-2007	2007-2008		2007-2008 2008-2009		2009-2010	
Region	Rec'd	Accept'd	Rec'd	Accept'd	Rec'd	Accept'd	Rec'd	Accept'd
Australia / New Zealand	24	9	31	17	16	11	20	13
PhD abstracts	5	5	4	4	5	5	10	10
Asia	247	33	206	33	235	40	253	20
Middle East	34	3	60	6	54	7	64	3
Europe	108	40	102	33	91	22	78	18
Africa	10	1	18	3	15	16	18	1
Americas	36	6	36	11	33	0	41	20
Total	464	97	457	107	451	90	484	85

The data are for papers received between 1 June and 31 May for the given years.

The figures do not include papers withdrawn by the author. The data for earlier years have been revised. The changes result from the addition of the 'Middle East' region and a more accurate count now that the meta-data records are available in electronic form. Note that at the date of this report (29 July 2010), there were 24 papers received during the 2009-2010 period for which the decision is still pending.

A table showing the distribution of received papers by field of research is provided in an Appendix to this report.

Submissions processing

The policy of the Bulletin is for the Editor to perform a first cull of submitted papers. The papers which survive the first cull are sent to an Associate Editor or referee for further review. During the period covered by this report 65.2% of submissions were culled without refereeing and the overall acceptance rate was 17.5%. The October issue is ready for publication and there are 42 papers in the pipeline, which is sufficient to fill the December 2010 and February 2011 issues. Currently the acceptance rate is 17.8%.

For papers published in 2009 (volumes 79 and 80) the median time from receipt of the original submission to acceptance was 2 months. Prior to print publication, Cambridge University Press places a PDF file of the paper on the 'First View' section of their web site. In 2009 the median time from acceptance to First View was 6 months and the median time from acceptance to publication was 8 months. In 2010 the median time from acceptance to First View has dropped to 4 months.

Don Taylor Editor *29 July 2010*

Appendix

The following table gives the number of papers received between 1 June 2009 and 31 May 2010, categorised by their primary MSC code.

- 42: 20 Group theory and generalizations
- 41: 11 Number theory
- 38: 47 Operator theory
- 36: 46 Functional analysis
- 30: 30 Functions of a complex variable
- 27: 05 Combinatorics
- 27: 35 Partial differential equations
- 26: 16 Associative rings and algebras
- 25: 34 Ordinary differential equations
- 21:00 General
- 20: 53 Differential geometry
- 18: 54 General topology
- 17: 26 Real functions
- 17: 13 Commutative rings and algebras
- 16: 42 Fourier analysis
- 15: 65 Numerical analysis
- 14: 37 Dynamical systems and ergodic theory
- 12: 39 Finite differences and functional equations
- 11: 43 Abstract harmonic analysis
- 9: 32 Several complex variables and analytic spaces
- 8: 90 Operations research, mathematical programming
- 8: 18 Category theory, homological algebra
- 6: 60 Probability theory and stochastic processes
- 6: 17 Nonassociative rings and algebras
- 5: 62 Statistics
- 5: 28 Measure and integration
- 5: 57 Manifolds and cell complexes
- 4: 03 Mathematical logic and foundations
- 4: 93 Systems theory, control
- 4: 15 Linear and multilinear algebra; matrix theory
- 4: 14 Algebraic geometry
- 4: 94 Information and communication, circuits
- 3: 40 Sequences, series, summability
- 3: 49 Calculus of variations and optimal control
- 2:81 Quantum theory
- 2: 06 Order, lattices, ordered algebraic structures
- 2: 41 Approximations and expansions
- 2: 52 Convex and discrete geometry
- 2: 58 Global analysis, analysis on manifolds
- 1:19 K-theory
- 1: 68 Computer science
- 1:45 Integral equations
- 1: 76 Fluid mechanics
- 1: 70 Mechanics of particles and systems
- 1: 91 Game theory, economics, social and behavioral sciences
- 1: 92 Biology and other natural sciences, behavioral sciences
- 1: 55 Algebraic topology
- 1:51 Geometry
- 1: 33 Special Functions
- 1: 31 Potential theory

Gazette Annual Report 2010

The AustMS Gazette is published in five issues per year. The print runs for the first four issues this year were 1020, 1050, 1050, 1100, and the numbers of pages were 60, 76, 72, and 64 respectively.

Editors and Advisory Board

- Amie Albrecht and Kevin White, both of the School of Mathematics and Statistics at University of South Australia, took over as editors from Birgit Loch and Rachel Thomas at the start of 2010. Eileen Dallwitz remains in the role of Production Editor.
- An advisory board comprising the AustMS President, Jon Borwein (Newcastle), Kerry Landman (Melbourne) and Mathai Varghese (Adelaide) has been formed to guide the Gazette editors.

Content

- The Gazette no longer accepts unsolicited submissions of technical papers. The last of these papers was published in Issue 37(4) (September 2010).
- With the guidance of the Advisory Board, the Gazette is commissioning articles that report on topics that are timely, groundbreaking, or related to important results that are newsworthy in some way. Ideally, these papers should be partly or even substantially accessible by a wide audience, but it is understood that some topics do not easily admit such access. The first of these, written by Michael Eastwood, was published in Issue 37(4). Georg Gottwald has supplied an article for Issue 37(5). We intend that one of these commissioned articles shall appear in each issue.
- We are showcasing the Society's student prize-winners by inviting them to submit an extended abstract of their work. So far we have published contributions from Samuel Cohen (2009 B.H. Neumann and T.M. Cherry Prize winner) and Lewis Mitchell (2010 T.M. Cherry Prize winner) in issues 37(3) and 37(4), respectively.
- Ivan Guo has taken over responsibility for the Puzzle Corner commenced three years previously by Norman Do. We recently decided to continue to make the prize for the best submission available to both members and non-members.
- Mathematical Minds, a column which presents the people behind the mathematics, has run in each issue. In 2010, we have published interviews with David Ellwood (Research Director of the Clay Mathematics Institute), Christine O'Keefe, Hyam Rubinstein and Natashia Boland.
- The number of pages in each issue of the Gazette is likely to decrease now that the supply of articles of a technical nature has diminished. This could perhaps be remedied with the introduction of new regular columns.

Cover design

There are plans to run a competition for a new cover for the Gazette. We are still determining guidelines for submissions (e.g. file format/design package used) and investigating other matters (e.g. how the number of colours used affects printing costs). Copyright for the new design is still to be resolved.

Copyright matters

The text of pro forma agreements (for single and multiple authors) has been agreed upon and agreements are sent via email to authors before publication. Other copyright matters are still being discussed by the Editors Committee.

Distribution

There were delays in the distribution of Issue 37(2) (May 2010). In conjunction with the Society Office, we have introduced a system of closer monitoring of the printing and distribution of the Gazette.

Website

All issues of the Gazette from 2004 are available online. We get occasional requests for articles from unavailable back issues and search through the hard copies on hand.

Funding support for editors

Amie Albrecht used part of the funding supplied to editors to fund airfares to ANZIAM 2010 in Queenstown. The total cost was \$847.39.

Annual Report of Electronic Editor

Prof Tony Roberts

September 5, 2010

1 CUP issues outstanding

Nothing appears to have been done about any of these issues in the last year. **CrossRef and DOIs** CUP are still issuing DOIs for our journals that are prefixed by 10.1017. *This must change asap.*

The prefix 10.1017 is clearly that 'owned' by CUP. I believe our contract clearly required DOIs that are permanently owned by AustMS. Only then can we move the whole repository of journals wherever suitable in future developments. Failing to change the prefix will be a disaster that will ruin our flexible future.

 $! \rightarrow$ First action Commit to funding DOIs for AMPAI and AustMS.

Hyperlinking CUP also must link up with the Electronic Supplement for ANZIAM J, and with the submission system for all three journals.

- $! \rightarrow journals.$
 - I recommend we add a one line entry to the home page; for example, for ANZIAM, below

The ANZIAM Journal considers papers in any field of applied mathematics and related mathematical sciences with the aim of rapid publication in print and electronic formats. Novel applications of mathematics in real situations are especially welcomed. All papers should include some indication of applicability, and an introduction that can be understood by non-specialist readers from the whole applied mathematical community.

place the one line sentence "Submit online articles for consideration to be published." and link to http://anziamj.austms. org.au/ojs/index.php/ANZIAMJ/about/submissions

• I recommend that on the Available Volumes list for ANZIAM, CUP insert a link to the relevant volume of the Electronic Supplement. For example, as part of volume 49 (perhaps below Issue 4) they list "Electronic supplement", flag it as "free access" using their nice green symbol, and link to http://anziamj. austms.org.au/ojs/index.php/ANZIAMJ/issue/view/13

And similarly for other e-volumes listed at http://anziamj. austms.org.au/ojs/index.php/ANZIAMJ/issue/archive

Web formatting We must also require CUP to improve the for-! \rightarrow matting of the web pages.

• It is well known that all capitals text is hard to read. CUP must stop the practice of using all capitals in article titles and author names. Wikipedia reports [via "all caps"]:

Miles Tinker, in his landmark work, *Legibility of Print*, performed scientific studies on the readability of all-capital print. His findings were as follows:

All-capital print greatly retards speed of reading in comparison with lower-case type. ... The use of all capitals should be dispensed with in every printing situation.

- The bold coloured names in the table of contents are an unwelcome distraction. Remove such effects.
- Underlining also is well recognised as degrading word readability. Remove.

2 Managing article submissions and review

For ANZIAM Journal, am mostly publishing in OJS the titles and abstracts and linking to the versions published at CUP. I recommend the Bulletin and JAMS do so also. I have done most of one issue for JAMS as an example for them to add to (vol. 88, issue 1).

I am aware that significant amount of reviewing and submission still goes on outside OJS.: to the confusion of some putative authors when OJS fails to provide information about activities undertaken without its aid. We cannot back each other up when activities are undertaken outside OJS.

Update OJS We need to update the version of OJS and move $! \rightarrow$ to commercial site. Please commit funding to do so.

Conference management No known progress on providing a conference management system.

3 ANZIAM Journal — electronic supplement

It is now registered with the Directory of Open Access Journals. Have applied for indexing by Scopus. As well as CTAC and EMAC proceedings, the supplement has also offered to publish the proceedings of the Maths in Industry Study Group.

AUSTRALIAN MATHEMATICAL SOCIETY LECTURE SERIES

Report to Council 2010

1. Editorial Board

Professor Cheryl Praeger	Editor-in-Chief, University of Western Australia
Professor Phil Broadbridge	Australian Mathematical Sciences Institute
Professor Michael Murray	University of Adelaide
Professor Charles Pearce	University of Adelaide
Professor Matt Wand	University of Wollongong
Professor Jacqui Ramagge	University of Wollongong

2. New publications in and submissions to the Lecture Series.

The monograph by Gus Lehrer and Don Taylor entitled 'Unitary Reflection Groups' appeared in September 2009, (after the 2009 report was written). Contracts have been signed with:

- (a) D. Baowan, B.J. Cox, T.A. Hilder, N. Thamwattana and J.M. Hill of the University of Wollongong for a proposed book entitled 'Nanomathematics: Geometry and Mechanics of Carbon Nanstructures';
- (b) Jon Borwein, Alf van der Poorten, Wadim Zudilin for a proposed monograph to be entitled 'Neverending Fractions'; and

a contract for a third volume is in the process of being signed. The editors enthusiastically welcome further submissions, and are happy to discuss possibilities with potential authors.

3. The Series:

The first book published in the Series appeared in 1985, and there have been 20 books published to date. The list below shows those published since 2003.

No. 20. Unitary Reflection Groups Gustav I. Lehrer and Donald E. Taylor Published September 2009

No. 19. *Quantum groups: A Path to Current Algebra* Ross Street and Ross Moore (technical) Published January 2007

No. 18. Chaos: A Mathematical Introduction John Banks, Valentina Dragan, and Arthur Jones Published May 2003

No. 17. A Course in Modern Analysis and its Applications Graeme Cohen Published July 2003 Available hardback and paperback

> Professor Cheryl E. Praeger 1 August 2010

Web-editor's Report to the AustMS Council

Ross Moore

September 6, 2010

2010 has been reasonably busy year on the AustMS website, though maybe not quite as busy as last year. There have been a significant number of 'News' items; e.g., announcing deadlines for various Prizes, submissions to special meetings and a few obituaries. The following items cover what are likely to be the most important aspects of the Society's website, of interest to members:

- A. Accounts are almost ready for all AustMS and ANZIAM members, to use the Wiki facilities;
- B. ERA Journal rankings;
- C. Lift-off fellowships;
- D. Calendar entries;

Each of these items is discussed in some detail within the following sections.

A. Accounts to use the Wiki

The AustMS website Wiki is almost ready to be made available for general use. A method to inform members of there login-name has been prepared by Hank Szeto, of Thinking Cap Consulting, who setup the website originally. The task remaining, before "going live" is to prepare appropriate documentation, or 'Help' files, to explain the various levels of creation and editing of Wiki pages.

Due to an unexpected glitch with one of the software modules, there needs to be different editing levels, available with different levels of access to pages and work done by others on the site. These levels of editing capability are as follows.

I. General level: available to most members when they are logged-in; uses the Wiki syntax, which provides a simple way to generate headings, paragraphs, itemised and enumerated lists, tables, some different font styles, hyperlinks and images. There are methods to generate exotic characters (e.g., math symbols) and direct HTML coding can be included, if the author has sufficient proficiency to prepare content this way.

Unfortunately the graphical editor for point-&-click production of HTML coding is not available at this level. The reason for this relates to security. Using this actually does not respect Wiki permissions, so it is possible for someone to delete other people's images up loaded to the website.

II. Access to the graphical editor: At this level the full point-&-graphical editor is available. Since this requires an extra level of trust, it is reserved for those users who may need to do extensive work on pages for general viewing; e.g., Council members, Editors of the Gazette or a Journal, managers of other parts of the website. Control over this level of access is maintained by allocating members to various 'Groups' of Users. Permissions to perform certain editing tasks is allocated to all the members of a 'Group'. Membership of Groups involves a hierarchical structure, which also controls access to Wiki pages, for viewing and editing.

- III. Office-level access: The AustMS office has access to features, such as membership and financial records, that are not available to many others. The editing level is the same as Level II, but with permissions to access information that is not generally available. Also, this level allows for he creation of accounts for new members. It is not expected that people with office-level access will be editing web-pages created by other users.
- **IV. Higher technical access:** This level of access is used by members of the IT Committee, who may use specialised methods to create webpages, perhaps off-line, then copy them to the site (using FTP or SSH communication protocols). In particular, the 'Gazette' and 'Jobs' sub-sites have been done this way, at least for some part of their evolution.
- V. Web-editor access: This involves knowledge of the Unix-level master password for the complete site. Currently only Hank Szeto and myself have this level of access, which allows for everything possible at lower levels, as well as allocation of Groups, setting Group permissions, creation of mailing lists, and access to the financial status of the overall account via the 'Quadra Hosting Control panel'.

At the time of writing this report, documentation slides were available for Levels II&III. Obtaining suitable documentation for Level I essentially means *removing* slides from that of Level II, and making all the appropriate adjustments that follow from this. This task is being undertaken by Hank Szeto, and may have been completed by the time of the General Meeting.

B. ERA Journal rankings

The journal ranking exercise, begun last year, continued in some ernest, throughout November 2009 to early February 2010. The ARC's final list of more than 20,000 journals contains 1194 with a Mathematics classification. These were all assigned a recommended ranking by the working group of mathematicians established by the AustMS to do this; and for the most part these rankings were accepted by the ARC.

There are 60 more journals with clearly Mathematical Sciences content, but not classified directly as being Mathematics. Also there are roughly 200 journals classified as 'Multidisciplinary' having a scientific bent, some of which might well contain an occasional mathematical article.

The website contains links to the recommendations made by the working group. Final lists of journals and rankings are available from the ARC's website.

C. Lift-off fellowships

A Wiki page was setup to handle applications for the new 'Lift-off' fellowships. At the time of writing, Andrew Mathas was preparing a way to present the successful applicants, including photos and a short statement about their work. This may be completed by the time of the council meeting. It is proposed to move the 'Lift-off' page from the 'resources' menu, to instead come under the 'Awards' menu on the website.

D. Calendar entries

The Society's website currently lists 57 separate events within the year 2010, using the online 'Calendar' facility; though a few more are likely to be added before the year's end. This is a similar number to 2008, but less than the 75 in 2009 which was unusually high due to the Clay–Mahler lecture tour.

Much of the activity this year has been due to:

• the STATPHYS24 congress, and its many satellite meetings;

- CARMA workshops and Access Grid events;
- other Access Grid events;
- the usual annual or biennial events, both in Australia and New Zealand: the AustMS and ANZIAM meetings, MISG, CTAC and specialist conferences on either side of the Tasman. Each year there is usually one or two 'super'-Congress events, held outside of the local area, such as this year's ICM in India.

C. News items

At the time of writing, there have been 30 'News' items posted since the last AGM, in late September 2009. Some more items are due to appear. Many of these were sent out to the AML list, but others were added at the behest of the Society president or secretary.

I repeat here, copying from last year's report, some of the ways 'News' items can be accessed on the website.

- Firstly, a list of the eight (8) most recent articles is presented on the entry page of the Society's website. This effectively shows items of current interest to Australian mathematicians, making them available to anyone who missed receiving them via the AML (or has forgotten where they filed it), as well as showing what is happening to the casual (web) surfer.
- Typically I add extra styles and layout to the articles posted online to enhance their readability. This normally includes extra hyperlinks to where more information, such as news clips perhaps including relevant photographs, can be found online. Much more can be added to such an online page than is normally sent out via the AML list.

Furthermore, extra information can be added following the initial announcement, as it becomes available. This is especially important in the case of the death of a prominent mathematician, as details of the funeral or remembrance service becomes available. A photograph and/or obituary can be added or linked-to.

- Clicking on the 'News' menu item get to a list of the 20 most recent articles.
- A longer list of all posted 'News' items can be consulted on the web-page: http://www.austms.org.au/tiki-list_articles.php, which is available to any member after loggingin to the site, by selecting Toolkit>Articles>List Articles from the pop-up menu at the top of any Wiki page.
- Whenever a 'News' item is created or edited, there is an option to send out an email to all, or a subset of, the Society's members who have a valid account on the website. This is a feature that is currently not being used, as sending to all members might be regarded as being too intrusive; especially as many items would be a repetition of what has already been sent out via the AML list.

In combination with the online 'Calendar' listing conferences and meetings, this effectively keeps an accurate history of mathematical activities, both academic and social, within this country.

Ross Moore, web-editor for AustMS

ANZIAM: Report for 2009/2010

to the Australian Mathematical Society

The leadership group for ANZIAM comprises Tim Marchant, Chair, Phil Howlett, Deputy Chair (and immediate past Chair), Geoff Mercer, Secretary, and Peter Johnston, Treasurer. Tim Marchant took over from Phil Howlett as Chair at the Queenstown ANZIAM conference in February 2010. New joint Editors of the ANZIAM Journal, Andrew Bassom and Graeme Hocking, have begun their appointments.

My congratulations go to the longstanding ANZIAM members, Dr. Bob Anderssen (OAM) and Dr. Bill Summerfield (OAM), on their awards in the 2010 Queens Birthday Honours. Bob's award was for contributions to the mathematical and information sciences while Bill's award was for services to education, particularly in the field of mathematics.

The annual ANZIAM Conference was held in Queenstown in N.Z. from 31st January to 4th February. The conference was well organised, in a beautiful location on the shore of Lake Wakatipu and the weather was fantastic. The conference Directors, Boris Baumer and Alex James, and their committee of Misi Kovacs, Carlo Laing, Michael Plank and Mick Roberts are to be commended for their efforts. The meeting was well attended and with over 140 presentations. It was also pleasing that the new Optimization Special Interest group, known as "Sigma Opt", was well represented at ANZIAM2010. Dr. Bob Anderssen, from CSIRO, was awarded the 2010 ANZIAM medal, while Mr. Alex Badran, from Wollongong was awarded the A. F. Pillow PhD Scholarship. The J. H. Michell medal for the outstanding young researcher was not awarded. The T. M. Cherry Prize for the best student presentation was won by Lewis Mitchell of Sydney University. The Cherry Ripe award, selected by the students, went to Larry Forbes. The invited speakers were Alan Champneys (Bristol), Scott McCue (QUT), Carlo Laing (Massey), Daniel Ralph (Cambridge), Antoinette Tordesillas (Melbourne), Matt Viser (Victoria University of Wellington), Lee White (UniSA), Ruth Williams (UCSD) and Song-Ping Zhu (Wollongong). Thanks also to Mick Roberts, for his role as Chair of the invited speakers committee.

The Mathematics-in-Industry Study Group (MISG) moved to RMIT (from Wollongong) in 2010, with John Shepherd as Director. The meeting was held 7-12th February 2010 with 150 delegates considering industry projects from the Brain Research Institute, Australian Antarctic Division, DSTO and the WA Geothermal Centre of Excellence. The 2011 meeting will again be held at RMIT, on 6-11th February. I congratulate John on his hard work and endeavour in hosting this important ANZIAM event. Strong links between the Mathematical Sciences and Industry will play a vital part in the growth of Australia's knowledge and innovation economy and MISG will continue to play an important role in this development.

Other meetings by ANZIAM special interest groups include the 10th Australasian Conference on Mathematics and Computers in Sport, which was held in Darwin on the 5-7th of July and CTAC2010, to be held at UNSW, 28th Nov. - 1st Dec. The state branches of ANZIAM had an active year in 2009. Mini-conferences were held or supported by the NSW/ACT, VIC/SA and the Queensland ANZIAM branches. These meetings are an important local activity and I hope that they continue in 2010, with ANZIAM funding support. The 2011 ANZIAM conference will be held at Glenelg in South Australia with John Boland (UniSA) and Jim Denier (Adelaide) as Conference Chairs. The 2012 ANZIAM conference will be held in Geelong or Warrnambool with Simon Clarke as Chair.

The Michell medal is the ANZIAM award for outstanding new researchers. The 2010 Medal committee, which comprised Dr. Mark Nelson (Chair), Prof. Mick Roberts and Prof. Natashia Boland, decided to not award the 2010 medal. This decision was appealed by one of the candidates, on the basis that the reason for the decision (the lack of single authored papers by the candidate), was not explicitly part of the medal criteria. An appeal committee comprising Prof. Phil Howlett (Chair), Prof. Bob Anderssen and Prof. Nalini Joshi considered the appeal to examine if any procedural irregularities had occurred. They found that the Michell committee had followed all written guidelines and the appeal was subsequently dismissed. I thank the Appeal Committee for their hard work and guidance on this sensitive issue. The lack of formal appeal guidelines, for AustMs medals and administrative decisions, is an issue that is currently being considered by the AustMs.

The 2010 ANZIAM Executive committee meeting decided to review the ANZIAM Constitution. A review committee, consisting of Tim Marchant (Chair), John Cossey, Geoff Mercer, Peter Taylor, Peter Stacey and Graeme Wake, was formed and have prepared a proposed new ANZIAM constitution. The new constitution proposes changes to the make up of the Executive Committee, electronic voting and a number of other minor updates. The ANZIAM Executive is currently considering a proposal to hold a Special Ballot, on the adoption of the new Constitution. If the proposal is supported the Special Ballot will be held in October 2010.

The 2010 ANZIAM Executive committee meeting considered the terms of current ANZIAM medals and also the idea of a new medal, to recognise mid career achievements. A committee was formed to consider the issue of ANZIAM medals, comprising Prof. Jon Borwein (Chair), Prof. Jim Hill, Prof, Bob Anderssen, Prof. Natashia Boland and Prof. Graeme Wake. Jon Borwein has reported stating that committee is happy with the scope and frequency of current medals but that the opportunity exists to offer a new medal for significant contributions in the area of Industrial Mathematics. I have asked Jon's committee to develop draft guidelines for this possible new prize and report back.

The CSIRO ANZIAM Student Support Scheme (SSS) was introduced in 2008, following generous sponsorship from CSIRO. 23 students received funding, totaling \$18,660, to attend ANZIAM2010, in Queenstown. Another student received funding to attend the EMAC 2010 conference. Students seeking assistance under the SSS were required to obtain financial support from their home university wherever possible and to submit a detailed budget requesting matching funding from the SSS. The SSS panel consists of Peter Taylor (Chair), Frank de Hoog (CSIRO) and Mick Roberts. I thank both CSIRO and the SSS panel for their support and hard work in making this scheme a success.

With the ERA2010 submissions now compete I would like to congratulate a working party comprising Phil Howlett (UniSA), Michael Murray (Adelaide), Hyam Rubinstein (Melbourne) and David Steel (Wollongong), who liaised with the ARC over journal rankings in the Mathematical Sciences. A number of key concessions were obtained. These included a reduction in the threshold (together with peer review) from 50 to 30 journal articles in the 0101 code (Pure Mathematics) and clawback, which allowed mathematicians to include, in any of the 01 four digit codes, their publications from any other FOR code. While the ERA results are not known, the professionalism and unity shown by the wider mathematical community is in stark contrast to some of the other disciplines, and should see Mathematics fare well in the final ERA rankings.

Finally I would like to thank Nalini Joshi and Peter Stacey for their support in maintaining strong links between AustMs and ANZIAM, during the year.

Tim Marchant August 2010