

Professional Development Application Form

Tax Invoice/Receipt (ABN 34 004 892 755)

School: _____

Address: _____

Postcode: _____

Telephone: _____ Fax: _____

Principal's Endorsement (if required): _____

MAV Membership: Institutional Individual Non-member

Please reserve places for the following:

Date	Venue (ie Bendigo)	Title of Session	Name of Attendees	Cost Inc. GST
TOTAL COST INC. GST				

Method of Payment:

I enclose a cheque/money order/purchase order for \$ _____ (made payable to MAV)

Purchase Order No. _____

OR

Please charge \$ _____ to my: Bankcard Mastercard VISA

Card Number:

Name on card: _____

Expiry Date: _____ Signature: _____

Please return this form to: The Mathematical Association of Victoria, Cliveden, 61 Blyth Street, BRUNSWICK VIC 3056, Tel. 9380 2399, Fax. 9389 0399

PLEASE READ THE FINE PRINT:

ACKNOWLEDGMENT LETTERS: Letters of acknowledgment are only sent out to attendees for full day professional development sessions. Those people attending after school professional development sessions will **only be** notified if a place is **NOT** available.

CANCELLATION: If you are unable to attend a session that you have booked into, refunds will not be issued if you cancel your booking less than 2 working days prior to the day of the session. Bookings are transferable to another person.

CLAIM ALL DISCOUNTS: If you do not claim relevant discounts, a refund of the difference between the standard and discount price will only be issued upon a formal written request. In this instance, an administration fee of 25% (of the refund) will be deducted.

Newsletter No. 206

July, 2004

Inside

Page 2

From the President

Page 3

Games Days
School Maths Olympics

Page 4

Problems of the month
Web Review

Page 5

Publication Information
MTQ Awards
Science & Maths

Page 6

Professional
Development

Page 7

NMSS – Canberra
MAV Policies & Staff

Page 8

PD Application Form

M.A.V. Publications
61 Blyth Street
Brunswick VIC 3056
ABN: 34 004 892 755
Telephone: 03-9380 2399
Facsimile: 03-9389 0399

Email: office@mav.vic.edu.au
Website: www.mav.vic.edu.au
Office hours: 8.30am – 5.00pm
Monday to Friday
President: Mr Ray Peck
Print Post Approved Publication
No.: PP32803/00103

MTQ

Delivering your entries

You will need to deliver your MTQ entries to Brunswick South West Primary School on Thursday 22nd July for primary entries and Friday 23rd July for secondary and P-12 school entries. The MAV sent information to all entrant schools in the last week of Term 2. If you haven't received anything, please contact Marianne Reimann on 9380 2399.

You be the judge

Come and help judge and get loads of ideas for MTQ and your classroom. Judging takes place from Saturday 24th July to Thursday 29th July (inclusive). We particularly need people to judge on Saturday. Light refreshments will be available on all judging days. Visit www.mav.vic.edu.au/studact to download a form or contact the office.

Annual Conference 2004 Thursday 2nd & Friday 3rd December

'Towards Excellence in Mathematics'

We have just closed our call for presenters, but there may be some spare spots if you let us know of your interest **immediately**. Visit <http://www.mav.vic.edu.au/pd/conf/index.html> for the latest details. Remember, conference presenters get to go to the Annual Conference free!

MAV Email News

Are you getting our email updates about maths education news and events? If not, send an email with your details to Simon Pryor at spryor@mav.vic.edu.au.

2005 - Council Nominations

The Annual General Meeting of the MAV will be held on Saturday, 11th September 2004 at 12.30pm at the Melbourne Museum. At that meeting the 2005 MAV Council will be elected. Nominations for Council open on Monday, 12th July 2004. Nomination forms will be available on that day at www.mav.vic.edu.au/assinfo/council.htm If you are interested in participation at the Council level please call Simon Pryor on (03) 9380 2399 or email spryor@mav.vic.edu.au.

PDs for 2004

Continuing with the MAV policy to present quality PD to maths educators in both metropolitan and country venues, the following full-day programs have been organised for primary and middle years teachers. After-school events have also been planned. Check the PD pages following as well as the web site for all the latest details.

www.mav.vic.edu.au/pd/pd2004.htm

Primary Maths Days 9am-3.30pm
Metropolitan venue - Moorabbin - Monday 9th August

Middle Years Maths Days 9am-3.30pm
Metropolitan venue - Croydon - Friday 3rd September

Free Public Lectures

The Age Theatre
Melbourne Museum
MELBOURNE

- **Escher & Beyond: Arts, Mathematics & Magic** - Sun – 18 July
- **The Maths is Right! How to Win Game Shows** - Sun – 25 July
- **Numerology, by Amateurs & Professionals** - Sun - 29 Aug
- **Count Count & the Knotty Knots** - Sat – 11 Sep

Details online:

<http://www.mav.vic.edu.au/online/index.html>

From the President

Teaching in 'the country'

Australia is indebted to those who live and work in rural Australia. With the population of most regions of rural Victoria in a state of slow decline for the past two decades, it is more important than ever that the MAV continues to think about ways to support members who work in country schools.

Almost all country schools have a long and proud history and many teachers who work in them were ex-students themselves or have taught more than one generation of students in their time at the school. Without teachers, many country towns would not be able to field sports teams, and other community activities would not be as successful.

Teaching in the country for someone raised in Melbourne can be a challenging but incredibly rewarding experience. While initially missing special friends and family, nightlife and cultural pursuits, after the first year it is very common to find that one has become a valued member of the community leading to increased self-esteem and sense of worth. It is almost impossible in a country town not to get to know students and their parents 'after hours'. While a downside of this might be loss of anonymity and the dreaded 'supermarket parent-teacher interview', the upside is greater knowledge about one's students with the potential for effective relationships and long-lasting friendships.

Pursuit of career

Most teachers in Melbourne probably find it hard to understand, or at best do not think about, the challenges that confront rural professionals in regard to the pursuit of their career. The greatest disadvantage is the tyranny of distance and the effect this has on access to resources, collegiality and professional development. It takes an exceptionally committed teacher to drive, often in their own time after hours and sometimes at their own expense, to attend professional development in a larger rural centre or capital city.

While it is true that some country towns and schools have a strong history and culture of local professional development, it has been recently observed that this culture can be relatively brittle and can often depend upon the energy of one or two key personnel.

PD Models

Over the years, several different delivery models have reached out to teachers in country schools.

Two of the best were the EMIC and Maths in Schools programmes. These were successful because they brought local teachers together over extended periods of time; built a programme around need; required sharing and commitment; and gave them access to outsiders with expertise. More recently, the Early Years and Middle Years delivery has relied upon the 'train-the-trainer' model. This has been very successful in schools with enthusiastic and well-respected leaders.

The Mathematical Association of Victoria has endeavoured to support teachers in country schools in a variety of ways. 'Hassle-free PD' was a service that enabled a school to design and order PD to meet local needs for local delivery, with all organisation conducted by the MAV. This was a cost effective service when travel and accommodation costs are taken into account. Regrettably, this service has been postponed until further notice.

In recent years, the MAV's annual professional development programme has extended out to most major regional centres. Like the MAV regional conferences, MAVRICs, these have been highly regarded and well attended. The next MAVRIC is planned for 2005 in Albury/Wodonga. Thanks to the enthusiastic group of local teachers currently working on this conference. The Annual Conference in December is traditionally well attended by teachers from country Victoria and provides an excellent opportunity to catch up with colleagues and the latest programmes and resources.

MAV Country Branches

All three of these models rely, to varying degrees, on a certain level of initiative from country teachers. In the past, this energy and activity has usually come from the MAV Country Branches. Since 1971, the MAV Council has endorsed seventeen branches; Ballarat, Bendigo, Calder, Central Gippsland, Colac, Eastern, East Gippsland, Geelong, Glenelg, Goulburn North East, Outer East, Peninsula, Shepparton, Sunraysia, Swan Hill, Western and Wimmera. Currently, it appears that, in 2004, the only active MAV Branch is the Outer Eastern Branch. This Branch organises and conducts PD with the support of the MAV. The Branch also organises its own Conference attended by over 200 teachers. The MAV is indebted to this energetic and committed group of local teachers in the Outer East Branch.

2005 National Mathematics Summer School - Canberra

Dates:	2 nd – 15 th January 2005
Cost:	\$1000 + GST (a travel surcharge may apply in some areas)
Accommodation:	Private rooms at the Australian National University.
Applicants:	Fifteen places have been allocated to Victorian students.
Selection:	Based on mathematical achievement and potential, together with an exam that will be held in August.
Program:	An in-depth study of three or four different areas of mathematics. The program is non-competitive and very much 'hands-on' with an emphasis on doing mathematics, not just listening to someone else talk about it. A range of excursions and social events will be organised.

Applications forms are available from the MAV office on 9380 2399. Alternatively email us at office@mav.vic.edu.au, or fax us on 9389 0399.

Applications close 2nd August, 2004.

MAV Cancellation Policies

Full-Day PD & Conference

Registrations may be cancelled up to 5 working days prior to a full day PD / Conference, with participants receiving a full refund. Registrations cancelled less than 5 days prior to the day will receive a 50% refund. However cancellations less than 48 hours prior to the day will not be refunded. If you are unable to attend but have someone to take your place, the registration can be transferred to another person.

After-School PD

If you have booked for a session and are unable to attend, refunds will not be issued if you cancel your booking less than 48 hours prior to the session. Bookings can be transferred to another person.

If you are eligible to receive a refund, you must return your confirmation letter and nametag to the MAV office to receive the refund.

Staff movements

Mary Walkinshaw, Professional Officer, Professional Development, has recently resigned from the MAV. She will be sorely missed. Mary coordinated the past three annual conferences and designed and ran our extremely popular professional development program. Mary leaves planning for both the PD program and the Conference for 2004 in great shape. An organiser on a short-term contract has been recruited to oversee the work for the remainder of 2004 and a recruitment process for a replacement Professional Officer will commence later this year. Council and staff wish Mary Walkinshaw all the best for what is sure to be a bright and professionally productive future.

If you have any enquiries about the PD program or the Conference, please contact Simon Pryor at pd@mav.vic.edu.au or (03) 9380 2399.

2004 Professional Development

Full-Day PDs

Cost - \$130 p/person for members, \$165 p/person for non-members, \$115 p/person for schools sending 4 teachers or more (All prices are GST inclusive).

Register - using the specific form refer to page 1 of this issues of the Common Denominator

Date/Time/Venue	Term 3 - Description	Cost
Monday, 9 August 2004 9am-3.30pm Moorabbin	Primary Maths Days Topics to be covered include: Intervention, Using games in the Numeracy block, Place Value Fundamentals, Pattern and Problem Solving, Linking Maths and Literacy and Using Open Ended Tasks	\$130 per person for members. \$165 per person for non-members. \$115 per person for schools sending 4 teachers or more.
Friday, 3 September 2004 9am-3.30pm Croydon	Middle Years Maths Days Sessions to be presented include: Engaging activities for middle years students (Charles Lovitt), Using manipulatives to teach algebra (Andrea Federico), Creating a thinking community (Suzanne Gunningham) and Intervention in the middle years (Colleen Vale).	All prices are GST inclusive.

After-School PDs – Series - New pds for term 3 on CAS and Technology

Cost - \$30 members, \$40 non-members (inc GST). Cost includes afternoon tea.

Register – using the Professional Development application form available on the back page of this issue.

Date / Time	Venue	Suburb / Melways No.	Topic
Tue 3 Aug 4.30 – 6.30pm	Penleigh & Essendon Grammar	Keilor McNab House 15 G10	An introduction and overview of CAS Teachers will have the opportunity to use and be guided through some of the capabilities of a CAS calculator (TI-89) as well as a discussion on some of the issues to be considered when engaging with this type of technology. For instance: How might your teaching change? What about by hand skills - how much do they still need to know?
Tue 10 Aug 4.30 – 6.30pm	Wellington Sec College	Mulgrave 80 D4	No CAS calculator experience required. <i>Presenters; Essendon – Peter Flynn, Wellington – Michael Evans</i>
Mon 23 Aug 4.30 – 6pm	Our Lady of Sion	Box Hill 47 E9	Maths Methods CAS - Year 11 A teacher from one of the schools that has piloted the CAS Maths Methods Units 1 & 2 course will share their thoughts and reflections on how their implementation went, changes they have made, recommendations to consider, as well as share some activities that have been developed.
Wed 28 July 4.30 – 6pm	Taylors Lake Sec College	Taylors Lake 13 J3	<i>Presenters; Sion – Helen Mulvogue, Taylors Lake – Peter Shallard, Haileybury – Carol Patterson & Linda Harland</i>
Wed 11 Aug 4.30 – 6pm	Haileybury College	Keysborough Sen. School 88 J9	
Wed 4 Aug 4.30 – 6.30pm	Frankston High School	Frankston 102 E7	Let's Get Connected! Internet - Computer - Graphic Calculator - Applications Knowledge on how to store and retrieve files between your calculator and computer, gathering data sets from the Internet and placing them directly into lists on your calculator and having access to a wide range of free applications, such as Junior Cabri, Conics, Probability Simulations and many more, provides for a stimulating classroom environment where up to date and relevant data can be accessed, used and shared with ease. Teachers should bring their TI-83plus, TI-89 or Voyage 200. <i>Presenters: Frankston – Peter Fox, Sion – David Tynan</i>
Mon 16 Aug 4.30 – 6.30pm	Our Lady of Sion	Box Hill 47 E9	

From the President continued from page 2

Contact sought

The current MAV Council recently discussed the viability of Country Branches and is very keen to hear from teachers who were members or office bearers of one of the 17 Branches listed above to update records and help determine the best course of action for the future. It may well be that another model is needed to better support teachers in country schools. The very successful Heads of Faculty group in Melbourne is one such model that is being considered. This group meets once per term, sets its own agenda, conducts its own research and invites guest speakers. It has a strong and active email network. Members take it in turn to host meetings in their own schools and also enjoy a meal together.

If you have Country Branch experience and/or a view on how the MAV might best support the professional development of teachers in country schools in the future, please contact myself on 9277 5767 or Simon Pryor on 9389 0302. We want to hear the views and ideas of our members in country schools.

Ray Peck

Games Days 2004

Year	School	Date	Contact	Email
6	Genazzano FCJ College - Fully Booked -	Friday 27 August	Phil Tascone	TascoP@gen.melb.catholic.edu.au
7	Scotch College - Fully booked -	Tuesday 31 August	Michele Linossier	Michele.Linossier@scotch.vic.edu.au
7	St Paul's	Tuesday 31 August	Heather Steenholdt	hesteenholdt@stpaulswgl.vic.edu.au
7	Overnewton Anglican Community College	Tuesday 31 August	Liz Treloar	Liz.Treloar@overnewton.vic.edu.au
8	PEGS	Wednesday 21 July	Roger Blackman	Roger.Blackman@pegs.vic.edu.au
10	Methodist Ladies' College - Fully Booked -	Tuesday 27 July	Allason McNamara	mccnamaam@mlc.vic.edu.au

Should you have any questions; please contact the school directly.

Schools Maths Olympics

The University of Melbourne's Discovery Day is fast approaching, and with it the annual Schools Maths Olympics. In the Schools Maths Olympics, teams of five students compete in an exciting and fast-paced event that combines physical and intellectual elements in a fun and encouraging atmosphere. The competition gives students an excellent chance to put their problem-solving skills to the test. Competitors solve mathematical problems that focus on lateral thinking, requiring no knowledge beyond year 10 level. The event will be held on Sunday August 22 in conjunction with Melbourne University's Discovery Day.

ABN 41 101 392 045
Freephone: 1800 305 022
Mobile phone 0405 503 603

**FRAMEWORK
MATHEMATICS**
YEARS 5 & 6 RESOURCES

STUDENT RESOURCE BOOKS
HOMEWORK BOOKS
TEACHER RESOURCE FILES



now available for viewing on our
BRAND NEW WEB SITE

www.caxtoneducation.com

FREE DOWNLOAD
OF SAMPLE CHAPTERS
ONLINE TUTORIAL ♦ ONLINE ORDERING

PROBLEMS OF THE MONTH

(<http://www.nrich.maths.org.uk/public/index.php>)

I was looking at the number plate of a car parked outside my house - S208VBJ.

Using my special code S208VBJ adds to 65.

V253HDS R516JSH V202BDS T968HTR.
They all also add to 65 using my code!

Using the code you treat every character, that is a digit or a letter, as separate.

Numbers are simply added together so that, in the first number plate 208 is $2 + 0 + 8 = 10$.

Letters are translated into numbers in an organised and systematic way. That means that if you know the value of F and H you not only know the value of G, but can easily work out all the rest of the alphabet.

Can you crack my code and use it to find out what both of these number plates add up to? T584YME P214DOR

P.S. Which country do I come from?

Answers to June's Problems of the Month

- A.** There are at least two solutions
(i) $123 - 4 - 5 - 6 - 7 + 8 - 9$
(ii) $123 - 45 - 67 + 89$
- B.** $888 + 88 + 8 + 8 + 8$

WEB REVIEW



INTERESTING WEBSITES FOR OLYMPIC INFORMATION AND ACTIVITIES

Athens 2004

<http://www.athens2004.com/athens2004/>

Click on Youth 2004 for a range of links:

- Excellence
- Athens welcomes the World
- Travelling through time
- Playground
- Interesting facts
- Related topics and activities:
 - Staging of the ancient Olympic Games
 - Explore Ancient Olympia with Despina!
- Library with links to Educational material
- Club 2K4

Links to many sites for Olympic activities, facts, etc.

<http://surfaquarium.com/NEWSLETTER/olympics2004.htm>

Olympic results and other material

<http://www.ex.ac.uk/cimt/data/olympics/olyindx.htm>

MAV Links to Olympic info

<http://www.mav.vic.edu.au/intsites/olympic.htm>

Olympics across the curriculum

http://www.teachers.8m.com/u_olympics.htm

PUBLICATIONS INFORMATION

ALTERATIONS

Número: A card game
#161A - Only available in sets of 15 packs \$229 per set

NO LONGER AVAILABLE

Número Challenges: Support material
#161C - Book1-Developing Addition & Subtraction
#161D - Book 2-Developing Number Operations
#161E - Book 3-Developing Advanced Number Skills
Diagnostic Mathematical Profiles
#0421 - (out of print)
Using Spreadsheets in Mathematics
#154 - (out of print)
Conic Sections and Tangent Circles
#145A - (out of print)

COMING SOON

MAV Trial Examination Paper 1997 – 2002

Purchase the full set on CD-ROM for only \$320.
All files in pdf format with index.
For further details concerning Trial Exams please refer to **MAV Publication 2004 Catalogue (page 14)**.
Alternatively email your expression of interest to Doreen Forrest at dforrest@mav.vic.edu.au

MATHS MONTH SPECIAL ON BADGES

Available for the month of August only
Badges 50 cents each.
Check out the designs and order form on the MAV website at:
www.mav.vic.edu.au/pubs/index.html

MTQ - Change of venue for 2004

Display of winning entries – MTQ entries will be displayed in "The Odeon" room of the Union Building at La Trobe University, Bundoora from week commencing 22nd August 2004.

Awards Ceremony - Presentation of the awards will be held at Union Hall, La Trobe University, Bundoora at 11.00am on Friday, 27th August 2004.

Science and Maths in the Bush

Enhance the learning experience of the MAV Maths Talent Quest by participating in the Science and Maths in the Bush program at the Melbourne Wildlife Sanctuary at La Trobe University Bundoora Campus. This program assists students in developing their science skills in an outdoor, bush-land environment. Using a variety of methods students will discover practical applications for physics, chemistry, biology and mathematics. This exciting program explores the world of ants and their importance in the environment. Ants are strong, energetic and very physical and it is through them that the world of science can become more accessible to students.

- How high is a tree?
- How much weight can an ant carry?
- How long will an ant take to scale a large Eucalypt?
- How tall are you in ants?

These are all questions students will answer while discovering science in the bush. Using basic mathematics principles we can discover many exciting things about the world around us.



For all enquiries & bookings phone: 9479 1206

Email: wildlife@latrobe.edu.au

Web: www.latrobe.edu.au/wildlife www.melbournwildlife.com.au