

Newsletter No. 204
May, 2004

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Monday to Friday

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Annual Conference 2 & 3 December 2004

'Towards Excellence in Mathematics'

The closing date for options is Friday, May 28th. Go on-line at www.mav.vic.edu.au to register your option via the web or download the form.

For those who do not have access to the site, we are very willing to send or fax a form. However, we are anticipating that 'live' registration of options will prove to be a very efficient method. Please only call the office on 03 9380 2399 to request the form if you are unable to register via the web.

Call For Judges

A great professional development opportunity. Come and help judge the 2004 MTQ. It is hoped that all participating schools will assist us by sending along teachers.

Collect new and exciting ideas for your classroom. Judging takes place from Saturday, July 24 to Thursday, July 29 at Brunswick South West Primary School. Choose a time that suits you and make a day/evening of it.

The venue is close to both Lygon Street and Sydney Road, both with a fine array of eateries to choose from.

Judging sessions are:

Saturday July 24	10am – 5pm
Monday July 26	5pm – 9pm
Tuesday July 27	5pm – 9pm
Wednesday July 28	5pm – 9pm
Thursday July 29	5pm – 9pm

For more information contact Nicole 03 9380 2399 or Doreen on 03 9389 0304. For a fax-back form, please go to page 12 or alternatively visit our website on www.mav.vic.edu.au/studact/mtg.htm

2004 Maths Talent Quest Don't Miss Out!

Forgotten to send your application for the 2004 MTQ? Applications can still be submitted for this year's Maths Talent Quest. Direct queries to Doreen Forrest on 03 9389 0304/email dforrest@mav.vic.edu.au.

PD for 2004

Full Day PD Options

Check the PD pages inside as well as the website on www.mav.vic.edu.au/pd/pd2004.htm for all the latest details.

Primary Maths Days

Ballarat – Monday, 7th June
Moorabbin – Monday, 9th August

Middle Years Maths Days

Bendigo – Friday, 11th June
*Croydon – Friday, 3rd September

To register please use the flyer included in, last month's Common Denominator or download the specific PD form(s) from the website or call the office on 03 9380 2399 to request the form to be faxed.

*Bookings and flyers for the Croydon Middle Years day will be available in next month's Common Denominator.

Are You a Member?

If not, did you know that you will miss out on the MAV's members discount for PD and that there will be no more Common Denominator, Prime Number and Vinculum for you! **Unsure? Check now**, call the MAV on 9380 2399.

From the President

MAV response to the VCAA Consultation Paper for VCE Mathematics Examinations: 2006 and beyond. (Supplement 2, December Bulletin, 2003)

Thank you to the member schools and individuals who forwarded copies of their submissions to the VCAA Consultation. There were several strong and common themes, and the MAV submission attempted to reflect these in a balanced and considered way.

While appreciating that the three VCAA proposed models made CAS optional rather than compulsory, it was clear that this was interpreted as a very strong signal for all teachers to come to grips with CAS technology in 2004 and 2005 in order to keep up with developments and avoid the perceived possibility of disadvantaging students.

Uncertainty about the effect of moving to CAS, on the nature of exam questions and VCE Study content (still being reviewed) was a confounding concern for most as was the yet-to-be published CAS Pilot Study report. Respondents least preferred exam Model C, and Model B was most preferred. Model A was a close second. For brevity, only the six Statements contained in the report are reproduced here. Members are encouraged to read the full text of the MAV response. It can be found at <http://www.mav.vic.edu.au/>

Statement 1: (Immediate Need for State-wide Professional Development)

If CAS is to be successfully, seriously, effectively and harmoniously introduced into Victorian schools and Unit 1-4 VCE mathematics subjects in 2006, then it is clear that extensive PD will be needed across the state throughout the second half of 2004 and throughout all of 2005.

The six 2003 CAS workshops offered by the University of Melbourne could be usefully adapted perhaps into 3 whole-day sessions with teacher commitment and activities in-between. On-line equivalents would provide an alternative for those unable to attend.

2004: Unit 1/2 focus. Terms 2/3 and 4 in 6 regional and 3 metropolitan centres

2005: Unit 3/4 focus. Terms 1, 2 and 3 in 6 Regional and 3 Metropolitan Centres

Statement 2: (Need for CAS Supplier Equity Access Program)

The VCAA, DET and/or the MAV should approach suppliers of CAS technology as a consortium to find ways to minimise equity concerns and ensure that students and schools have maximum access to approved calculators.

Equity Access Models should be devised and made available to schools. These could include: Individual student purchase at special one-off introductory prices. Subsequent years would benefit from second-hand pricing.

Supplier loan to school to be paid off over 2 or 3 years by student instalments.

School purchase of class set and subsequent hire to students.

Similar schemes should be investigated for Derive and Mathematica.

Statement 3: (Possible Delay until 2007)

If either the state-wide PD program or the CAS Supplier Equity Access program cannot be established during 2004, then the MAV requests that the introduction of CAS technology and related changes to examinations and courses be held off until 2007.

Statement 4: (Opposed to Open Book)

The MAV supports the equity concerns raised by member schools and also values the retention of summaries. The MAV would not like to see students permitted to bring texts or other resources to VCE examinations.

Statement 5: (More discussion needed about 'technology-free')

The MAV is not convinced that 'technology-free' examinations are desirable or needed. *More discussion of the definition and purpose of 'technology-free' is needed before a clear preference emerges. The MAV, therefore, requests that an urgent meeting of interested stakeholders be held to discuss and clarify the definition, purpose and implications of 'technology-free'.*

Statement 6: (CAS not required for Further Maths)

If Model A is adopted, assuming the VCE Mathematics Course Review proposes minimal changes to the Further Mathematics course, the MAV requests that the VCAA make it clear that, in Further Mathematics, CAS is an option (to avoid some students buying two calculators), not a requirement and will not be an advantage.

Ray Peck, President

Introducing MAV Councillors



Dave Tout

Trained as a secondary school maths teacher and initially taught in schools in Victoria and the UK. Since the late 1970s specialised in numeracy and maths in adult education, working in TAFE Institutes, Universities, community providers, migrant education and industry, having had lots of experience in teaching and training, and also worked at a state, national and international level in writing assessment, curriculum and teaching materials, along with bits of management and policy development. In 2003 was involved in training VCAL teachers across Victoria. His experience in working with adult numeracy students for many years has taught him much about the importance and value of mathematics education, and how it is a vital and under-valued skill for all adults, not just the privileged few. He would like to be able to share that knowledge with others. Dave would like to help the MAV develop strategies that support VET-based maths teachers, who often work in isolation and have little professional support.



Michelle Parker

Michelle is currently the Assistant Principal at Ardeer Primary School where her role involves team-teaching a grade 2/3 half time, along with co-ordinating the Early Years Programs and Curriculum at the school. She has trained as a Regional Early Years Numeracy Trainer and is responsible for helping to co-ordinate Professional Development and support for Early Years Co-ordinators in her local network. As part of her commitment to the Early Years Program, Michelle has recently joined a Regional Early Years Working Party, where it is hoped that future directions for Early Years within the region can be discussed and formulated.

Michelle has a keen interest in teaching Mathematics in the Early Years. She strongly believes that this is a crucial time for students to build a solid foundation of Mathematical knowledge on which they can build further understandings.

Michelle is new to council this year, but has spent the last 2 years participating on the organising committee for the MAV December Conference.

Trial Examinations 2004

Unit 1 now available for immediate delivery!

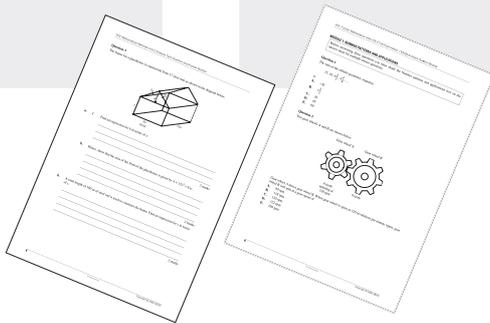
Maths Methods for Units 1, 2, 3 & 4

Maths Methods CAS for Units 1, 2, 3 & 4

Further Maths for Units 3 & 4

Specialist Maths for Units 3 & 4

- Exams for Units 1 & 2 are ideally suited to be used by teachers for their final testing of students.
- Exams for Units 3 & 4 allow teachers to prepare their students for the style and difficulty of the final exams.
- All Trial Exams are supplied with fully worked solutions and mark schemes.



Diagnostic Topic Tests Year 2000 Edition

Maths Methods for Units 1, 2, 3 & 4

Further Maths for Units 3 & 4

Specialist Maths for Units 3 & 4

Diagnostic Topic Tests:

- are specifically written for the currently accredited VCE Maths courses.
- monitor & identify students' strengths & weaknesses throughout the year.
- contain fully worked solutions, diagnostic comments & mark allocation.
- contain questions that develop skills & competencies appropriate to each topic.
- include approaches to answering questions.
- identify concepts being tested.
- identify rules and formulas to be applied.
- offer advice and hints on effective examination techniques.

Smartstudy® Revision & Exam Preparation Guides

Now available for booklisting.

Maths Methods for Exam 1 & 2 (2 Books)

Maths Methods CAS for Exam 1 & 2 (2 Books)

Specialist Maths for Exam 1 & 2 (2 Books)

Further Maths for Exam 1 & 2 (2 Books)

Smartstudy® revision and exam preparation guides for VCE are a series of books designed to help students maximise their study time. There are 2 books per subject covering both Units 3 & 4. They provide a complete revision package in an easy-to-follow layout. All books contain:

- material ideal for ongoing revision throughout the semester.
- exam-style questions organised by topic and area of study.
- fully-worked solutions to all questions, including explanations on multiple-choice answers.
- 3 complete practice exams which reflect the current VCE exam format.
- new and original questions written for the current VCE courses.



NEAP VCE resources are also available in Biology, Chemistry, Physics, Psychology, Accounting, Business Management, Economics, Legal Studies & English.

For inspection copies or sample pages contact
Suzanne, Educational Services Manager
0400 058 479

For further information or to be placed on the NEAP teacher mailing list, contact:
National Educational Advancement Programs (NEAP) Pty Ltd
58 Pelham Street Carlton Vic 3053 Tel 03 9663 2523 Fax 03 9663 7182 www.neap.com.au

NEA204APRIL04

PROBLEMS OF THE MONTH

Start with a Thousand

- a.** Start with 1000
Subtract the second prime
Reverse the digits
Divide by 17
Add the first prime
Take the square root
Double it
Subtract 1
- b.** Start with 1000
Subtract the third cube number
Divide by 7
Reverse the digits
Divide by 7
Divide by 7
Reverse the digits
Divide by 7
- c.** Start with 1000
Take the cube root
Add 3 raised to the power of 5
Divide by 11
Double it
Double it and add 1
Reverse the digits
Divide by three
- d.** Start with 1000
Add the square of 34
Divide by 4
Divide by 7
Add the square of 9
Subtract the cube of 4
Subtract the cube root of 729
Find the sum of the digits

***What do you notice about the answers?
Devise more examples***

Answers next month

Answers to March Problems of the Month:

1. $879 + 426 = 1305$ & $879 + 624 = 1503$
 $859 + 347 = 1206$ & $859 + 743 = 1602$
 $789 + 264 = 1053$ & $789 + 246 = 1035$
 $756 + 342 = 1098$ & $765 + 324 = 1089$
 $657 + 432 = 1089$ & $675 + 423 = 1098$
 $589 + 473 = 1062$ & $589 + 437 = 1026$

2. B and E cross in 2 minutes and B comes back with the flashlight in 1 minute (leaving E on the other side). Total: 3 minutes.

A and L cross in 10 minutes and E comes back with the flashlight in 2 minutes. Total: 12 minutes.

Finally, B and E cross in 2 minutes, for a grand total of 17 minutes.

Note: Another solution is to have E (instead of B) come back with the flashlight in the first step, which would then take 4 minutes (instead of 3): In the second step, B would bring back the flashlight and it would only take 11 minutes (instead of 12) for the same grand total of 17 minutes.

3. You want to number each of the 20 grid locations from 1 to 20 in such a way that the difference between two adjacent numbers is never less than 4. Here's one solution:

13	9	19	7	11
5	1	14	3	17
16	10	20	8	12
6	2	15	4	18

NEW RESOURCES

Have you ever considered just how much mathematics involves the use of grids?

The Maths:

Data is represented by assigning value to cells of a grid.

Graphs are drawn using the co-ordinates, which label the intersections of a grid.

The concept of multiplications (and its inverse) can be modelled as a rectangular array, which can be represented on a grid.

The place value aspect of numbers are represented by this model, operations on those numbers can also be represented.

Geometric shapes can be represented on a geoboard which is a grid where the line intersections are the focus.

Grids provide the playing board for many games and puzzles. Chess is obvious and the grains of rice on the chess board problem (1 on the first cell, 2 on the second, 4 on the third and so on) is well known.

A spreadsheet/database depends on a grid for its existence.

We ask children to learn multiplications tables which are arranged as a grid.

The area of a rectangle is measured by a grid of squares.

The Mat:

Plastic Mats are a useful teaching aid. A great deal of mathematics can be approached kinaesthetically with the use of these mats. Should you wish to view any of the recorded ideas, please go to the following website: <http://www.blackdouglas.com.au/resorce/mathmat.htm>. Alternatively should you require additional information, please contact: Matt Skoss T: 0418-624 631 or email matt.skoss@switch.com.au.

Over \$8000 worth of prizes to be won in the 2004 Waste Wise and Sustainable Schools Awards!

Prizes for Schools and Individuals, and Primary and Secondary students in Science, Design, Technology, **Maths**, Visual Arts, Performing Art and Communication subjects.



NEW AWARD for 2004: 'Towards Sustainability'

Available for a school that has:

- 1.) a comprehensive waste and litter reduction program
- 2.) a program in another area of sustainability, such as Water, Energy or School Grounds / Biodiversity

For a copy of the entry form go to www.gould.edu.au/wastewise, or call 03) 9532 0909

Entries close 23 July 2004



supported by EcoRecycle Victoria

Point Symmetry website correction

If you previously purchased the Point Symmetry resources please note that Puzzle B8 as it existed on our site at: <http://www.mav.vic.edu.au/pointsym> up to 21 April 2004 had an error on one line. This has now been corrected. You are advised to reprint your copy of this single page. Remember that, to be sure of printing a puzzle sheet with the size of the drawing matching the *actual equipment*, you will need to print from the Word document version of the puzzle.

Games Days 2004

Year	School	Date	Contact	Email
5	St Catherine's College - Fully booked -	Wednesday 12 May	Karen McAsey	kmcasey@stcatherines.net.au
6	Genazzano FCJ College	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 Steenhodt	hesteenhodt@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
9	Bundoora Secondary College	Wednesday 2 June	Michael Westbrook	westbrook.michael.a@edumail.vic.gov.au
10	Methodist Ladies' College	Tuesday 27 July	Allason McNamara	mचनामाम@mlc.vic.edu.au
11/12	St Michael's Grammar School	Thursday 24 June	Vahe Sargsyan	vsargsyan@stmichaels.vic.edu.au

Registration available on-line at <http://www.mav.vic.edu.au/studact/games-days.htm>

Web Review

OPEN-ENDED QUESTIONS AND RICH TASKS IN MATHEMATICS

The Rich Tasks - Education Queensland – New Basics Project

<http://education.qld.gov.au/corporate/newbasics/htmlrichtasks/richtasks.html>

The Rich Task is a reconceptualisation of the notion of outcome as demonstration or display of mastery; that is, students display their understandings, knowledges and skills through performance on transdisciplinary activities that have an obvious connection to the wide world.

Rich Tasks for Middle Years – Steve Flavel and Judith Selby

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

The authors' experiences suggest that rich tasks resonate with sound pedagogical practices that are based on inclusive teaching and learning strategies.

Using Short Open-ended Mathematics Questions to Promote Thinking and Understanding – Foong Pui Yee

math.unipa.it/~grim/SiFoong.PDF

This paper shares the experience of some primary teachers, who have used short, open-ended problems that enable students to demonstrate their thinking and understanding of mathematical concepts in a variety of ways. Provides a classification scheme for Mathematical Problems with many examples.

Sources of Mathematics Open Response Items

<http://www.nku.edu/~mathed/mori.html>

Mathematics Problems from around the World
Teacher Developed Open Response Items (Grades 5, 8 & 11)

Open Response Prompts and Scoring Guides

Lessons Plans for Rich Learning

Rich Learning Tasks and Rubrics

Other Links

New Zealand Maths - Links

<http://www.nzmaths.co.nz/Links/>

A host of links to problem-solving, puzzles, games and much more. Covers Algebra, Geometry, Number, Measurement, Statistics, Logic. Includes a great Student Site.



MLC

YEAR 10 STATEWIDE GAMES DAY AT METHODIST LADIES' COLLEGE



The Year 10 Statewide Games Day organised by Methodist Ladies' College, in conjunction with the MAV, will be held on Tuesday 27 July, 2004, at Methodist Ladies' College, Barkers Road, Kew.

Schools may nominate one or two teams of four students each, at a fee of \$30 (including GST) per team. The day's activities will start at 10.00am and conclude at approximately 2.30pm. Students must bring their own lunch. Lunch will be provided for staff. The Games Day promises to be one, which is intellectually challenging, competitive and fun.

Please detach the form below and mail it, along with your entry fee to the address shown below.

Make cheques payable to Methodist Ladies' College (ABN: 55 006 036 979).

Further enquiries should be made to Allason McNamara on 03-9274 8523, or fax 03-9819 2345. E-mail: mcnamaam@mlc.vic.edu.au

*** Tax invoice**

MATHEMATICS GAMES DAY FOR YEAR 10 STUDENTS, 27 July 2004

Methodist Ladies' College
207 Barkers Road
Kew VIC 3101

NAME OF SCHOOL: _____

ADDRESS: _____

POSTCODE: _____

PHONE: _____ FAX: _____

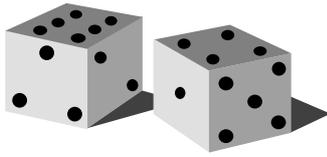
EMAIL: _____

TEACHER CONTACT: _____

NUMBER OF TEAMS: _____

Send this form with your payment to:
Ms A. McNamara, c/- Methodist Ladies' College, 207 Barkers Road KEW VIC 3101,
by 25 June, 2004.

IMPORTANT: A completed copy of this form becomes a ***Tax Invoice** on payment. Keep a copy of the completed form for your records. The original must be returned with your payment. Date: ___/___/___



**YEAR 9 GAMES DAY
AT**



BUNDOORA SECONDARY COLLEGE

A Games Day for Year 9 students, organised by Bundoora Secondary College in conjunction with the MAV, will be held on Wednesday, 2 June, 2004, at Bundoora Secondary College, on Balmoral Avenue, Bundoora, VIC 3083 (Melways Ref. Map 19, K3).

Schools may nominate one or two teams of four students each, at a fee of \$30 per team. The day's activities will start at 9:45am and conclude at approximately 2.30pm, and lunch will be provided for staff. Students must bring their own lunch. The Games Day promises to be challenging as well as fun.

Please detach the form below and mail it, along with your entry fee to the address shown below, by 26 May, 2004. The fee is \$30 per team.

Make cheques payable to Bundoora Secondary College

Further enquiries should be made to Michael Westbrook at westbrook.michael.a@edumail.vic.gov.au.

Details: Students need to bring writing implements, a scientific calculator (graphics calculators are not permitted) and something for morning tea and lunch.

**MATHEMATICS GAMES DAY FOR YEAR 9 STUDENTS, 2 June, 2004
*Tax Invoice/Receipt (ABN 81078257296)**

NAME OF SCHOOL: _____
ADDRESS: _____ POSTCODE: _____
PHONE: _____ FAX: _____
TEACHER CONTACT: _____
NUMBER OF TEAMS: _____

Send this form with your payment to: Mr M. Westbrook, Bundoora Secondary College, Balmoral Avenue, Bundoora, VIC 3083, **by 26 May, 2004**

IMPORTANT: A completed copy of this form becomes a ***Tax Invoice** on payment. Keep a copy of the completed form for your records. The original must be returned with your payment.

Date: ____ / ____ / ____

2004 Professional Development

During 2004 the MAV will host a variety of full-day events, as well as after-school PDs and series – details will be made available in The Common Denominator and on our website <http://www.mav.vic.edu.au/pd/pd2004.htm> as events are finalised. Tell us your needs and ideas! Members are encouraged to put forward their suggestions regarding the content for programs as well as volunteer their school as possible venues. Free places at the PD are offered in exchange for venues!

Date/Time/Venue	Description	Cost
<p>Term 2</p> <p>Thursday, 3 June 2004 4.30pm – 6pm Cliveden, MAV office Brunswick</p>	<p>Using Collaborative Discussion in Primary Mathematics</p> <p>Julie Ryan, a former Melbourne mathematics teacher, presents some of her recent work with teachers in England who have been working to expand their teaching beyond the confines of the government's National Numeracy Framework (NNF). In particular, two year 5 teachers in Liverpool have been working on the use of collaborative discussion in their mathematics where children's errors and misconceptions are used as the basis for discussion and learning. She will describe the impact of the NNF on classroom practice and how the teachers and their pupils together developed new classroom practices.</p>	<p>\$30 members \$40 non-members (incl. GST).</p> <p>Please register using the PD Application Form which can be downloaded from www.mav.vic.edu.au/pd/pd2004.htm or call the office on 9380 2399 alternatively, refer to page 12 of April's Common Denominator</p>
<p>Monday, 7 June 2004 9am-3.30pm Ballarat</p>	<p>Primary Maths Days</p> <p>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.</p>	<p>\$130 per person for members. \$165 per person for non-members. \$115 per person for schools sending 4 teachers or more. All prices are GST inclusive.</p> <p>Please register using the specific form available or download from our website www.mav.vic.edu.au/pd/pd2004.htm or call the office</p>
<p>Friday, 11th June 9am-3.30pm Bendigo</p>	<p>Middle Years Maths Days</p> <p>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).</p>	
<p>Term 3</p> <p>Monday, 9 August 2004 9am-3.30pm Moorabbin</p>	<p>Primary Maths Days</p> <p>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.</p>	<p>Registration forms for Croydon will be available next month</p>
<p>Friday, 3 September 2004 9am-3.30pm Croydon</p>	<p>Middle Years Maths Days</p> <p>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).</p>	

HASSLE-FREE PD FAX-BACK

Do you need to organise a day, half day, or session of PD for your school? The MAV can help!

Fill in this **Hassle-Free PD Fax-back Form**, or contact Mary Walkinshaw on 03-9389 0303 or at mwalkinshaw@mav.vic.edu.au

FAX: 03-9389 0399 Attention: Mary Walkinshaw

SCHOOL/ORGANISATION NAME: _____

ADDRESS: _____

_____ PCODE: _____

PHONE: _____ FAX: _____

EMAIL: _____

CONTACT NAME: _____

DATES & TIMES OF PROFESSIONAL DEVELOPMENT SESSION(S):

VENUE: _____

DISTANCE AWAY FROM MELBOURNE CBD (km): _____

The MAV also has two training rooms available at Cliveden from \$100 for half a day to \$165 for a full day. Please tick the following box if you would like more information & a booking form:

Topic(s) to be covered. Please be as specific as possible:

Preferred presenter(s)

Estimated Budget: \$ _____

****Members' cost is \$50 per presenter, Non-members' cost is \$100 per presenter. Clients will also be responsible for the presenters' fee/s and any travel or accommodation costs (plus GST).**

**2004 MAV MTQ CALL FOR JUDGES
FAX-BACK FORM 03 9389 0399**

Attention: Nicole

School: _____

Phone: _____ Fax: _____

I, _____ would be available to judge on:

Saturday, July 24 between _____ and _____

Monday, July 26 between _____ and _____

Tuesday, July 27 between _____ and _____

Wednesday, July 28 between _____ and _____

Thursday, July 29 between _____ and _____

I, _____ would be available to judge on:

Saturday, July 24 between _____ and _____

Monday, July 26 between _____ and _____

Tuesday, July 27 between _____ and _____

Wednesday, July 28 between _____ and _____

Thursday, July 29 between _____ and _____

I, _____ would be available to judge on:

Saturday, July 24 between _____ and _____

Monday, July 26 between _____ and _____

Tuesday, July 27 between _____ and _____

Wednesday, July 28 between _____ and _____

Thursday, July 29 between _____ and _____

I, _____ would be available to judge on:

Saturday, July 24 between _____ and _____

Monday, July 26 between _____ and _____

Tuesday, July 27 between _____ and _____

Wednesday, July 28 between _____ and _____

Thursday, July 29 between _____ and _____