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2003 Somers Maths Camp CANCELLED

The 2003 Somers Maths Camp has unfortunately been cancelled due to public liability insurance issues. Members will of course be aware that this is a current problem for many organisations. The MAV will continue to investigate ways we may be able to reinstate the camp in 2004, and we apologise to all those schools who will be disappointed as we are.

The National Maths Summer School in Canberra will be still running and students are encouraged to apply for this. Further information can be found on page 3.

Ford Maths Talent Quest



*Delivery of entries - Friday 26th
July*

Delivery of entries for this year's Ford MTQ will take place on Friday 26th July at Brunswick South West Primary School. Further information was sent to all entrant schools in the first week of Term 3. If you haven't received your pack please contact Jo Howard urgently at the MAV office on 9380 2399.

We still need more judges for this year's MTQ. Come and help judge the Quest and get lots of ideas for MTQ and your classroom. Judging takes place from Saturday 27 to Tuesday 30 July. Contact the MAV office or visit our website (www.mav.vic.edu.au/studact) for further details and a judging form.

Two Fat Ladies!

There are two pregnant ladies in the MAV office! Both Sally Turnbull and Pauline Rogers are expecting their first children later in the year! Must be something in the water.....

Congratulations to them both!

Annual General Meeting 2002

The Annual General Meeting for 2002 will be held on Saturday 14th September at 4.00pm at the Royal Society of Victoria, 8 La Trobe Street, Melbourne.

All members are invited to attend this meeting - please RSVP to the MAV office on 9380 2399 or office@mav.vic.edu.au no later than Wednesday 11th September.

Special Resolution

Notice is hereby given for a Special Resolution to come before the Annual General Meeting:

Motion

That Article 13 (C) which currently states:

Nine Council Members shall be a quorum. A meeting of the Council at which a quorum is present shall be competent to exercise all or any of the authorities powers or discretions vested in or exercisable by the Council generally.

Be changed to:

A quorum shall consist of 50% of Council members plus one. A meeting of the Council at which a quorum is present shall be competent to exercise all or any of the authorities powers or discretions vested in or exercisable by the Council generally.

Proposed: E. Burns/M. Stephens

Nominations for Council 2003

Nominations are now invited from interested individuals who would like to become involved in the MAV Council in 2003. There are generally 10 meetings held each year in Brunswick, commencing at 6.00pm. Why not consider joining and have a real opportunity to contribute to this dynamic professional organisation. For nomination forms, visit the MAV website at:

<http://www.mav.vic.edu.au/assinfo/council.htm>

Or contact the MAV office on 9380 2399 or office@mav.vic.edu.au

Nominations close on Friday 16th August, 2002.

From the President

Our recent membership review included a phone survey of many MAV members, and this has provided us with a wealth of information about your opinions and needs. I thought it may be useful to share some of the findings with our members in this column.

Firstly, there was a very strong positive response from current and lapsed members to having personal contact with our office staff. Everyone was extremely helpful and happy to give us some of their valuable time to discuss current membership issues, and we thank them very much.

In our survey we spoke to both primary and secondary members, as well as institutional and individual members.

Our secondary members were generally very happy with the services that the MAV offers, with some VCE providers noting that membership of the Association was essential to them, despite budgetary constraints.

Speaking to primary schools - both current and lapsed members - provided a more diverse picture. While many of our primary members are very happy with our service, (and nearly all commented on how wonderful our primary journal Prime Number is! Thank you to Barbara Martin!) there were more comments about increasing services to our primary members. This includes a perception that the Association has a greater focus on secondary teachers.

This area is one which we are addressing. For 2003, we intend to employ a primary trained Professional Officer to increase our focus on the primary years. This will include greater emphasis and resources being provided in this newsletter, The Common Denominator, as well as having a full time primary presence in our office in Brunswick, to provide advice and support to primary members around the state.

Another issue that was important to all our regional members was that of local PD provision. The professional development provision for 2002 has included a large regional component, and many members recognised the progress being made in this area. However, visiting all areas remains a major challenge for an Association such as ours, and we will continue to work hard at improving regional activities for all our members.

The main purpose of the telephone survey was to consult with our members on the proposed restructuring of MAV membership categories for 2003. Those we consulted provided a clear endorsement of what we have in mind. If we pride ourselves on being a membership driven organisation, we need to take time to speak to our members. It has been a very positive

experience for all our staff to hear from the field about what people expect of their Association.

DR MAX STEPHENS
President

Free Public Lectures

Other upcoming lectures in our series of free public lectures:

Thur 25 July - *Juggling the Universe*, with Dr Burkard Polster, Melbourne Museum, 7:30pm

Tue 6 Aug - *Imaginary Numbers & the Magic They Do*, with Dr Marty Ross, Melbourne Museum, 7:30pm

Tue 27 Aug - *Shadows from the Fourth Dimension*, with Dr Burkard Polster, Melbourne Museum, 7:30pm

Sat 14 Sep - *The Joy of Gambling*, with Dr Marty Ross, The Royal Society of Victoria, 2:00pm

See the enclosed flyer for full details.

Bookings Essential! Phone 9380 2399 or email mavoffice@mav.vic.edu.au

VCE Revision Lectures 2002

Proudly supported by The Age

This year the MAV will be hosting VCE Maths Revision Lectures for Unit 3 & 4 students at six venues around Victoria:

Glen Waverley: Wednesday 25 September

Footscray: Thursday 26 September

Traralgon: Friday 27 September

Frankston: Monday 30 September

Bendigo: Tuesday 1 October

Geelong: Wednesday 2 October



Bookings are essential. Further details and a booking form are enclosed or visit our website at:

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

Common Denominator Deadlines – 2002

Receipt of copy: Monday 15th July, 2002

Receipt of inserts: Monday 29th July, 2002

For mailing on: Monday 5th August, 2002

Products and services advertised and opinions expressed are not necessarily those of the Editor or the MAV

2003 National Maths Summer School, Canberra

- DATES:** 5 – 18 January, 2003.
- COST:** \$850 + GST
- ACCOMMODATION:** Private rooms at the Australian National University offering a range of facilities normally available to ANU students.
- APPLICANTS:** Fifteen places available for Victorian students **going into Year 12**. Selection is on the basis of Mathematical achievement and promise – a test will be conducted in August.
- PROGRAM:**
1. Two or three in depth topics covered
 2. Emphasis on doing Mathematics, rather than just listening
 3. A number of non-mathematical talks and excursions
- APPLICATIONS CLOSE:** Monday 5 August, 2002

Schools who have students who are keen to attend but cannot afford the camp should contact the MAV.

For application forms call the MAV on 9380 2399, e-mail us at: mavoffice@mav.vic.edu.au or visit our website: <http://www.mav.vic.edu.au/studact/index.html>. Alternatively, fax back this form with your details to 9389 0399 and we will fax you an application form.

Name: _____

Fax number: _____

Email: _____

Free Lecture

Integrating Technology into Maths & Science

Tue 30 July- *Integrating Technology into Maths & Science*, with Bill Bower, The University of Melbourne, 5:00-6:30pm

This lecture is suitable for all mathematics and science educators. **Bookings Essential!** Phone 9380 2399 or email mavoffice@mav.vic.edu.au

Proudly supported by Texas Instruments.

Maths Problems - Free Teachers' Night

Interested in hearing from some international speakers about mathematical problems and their use in the classroom and in competitions?

As part of an international conference, there will be a free teachers' night on 7 August at St Leonard's College. For more information and booking details, visit:

<http://www.amt.canberra.edu.au/wfnmc4out.html>

Problem of the Month

Alphanumeric Puzzle

(Suitable for Year 5-12 students)

Can you find values for the nine letters in the sum:

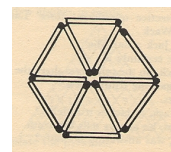
$$\begin{array}{r} \text{FOOT} \\ +\text{BALL} \\ \hline \text{GAME} \end{array}$$

There are 224 different solutions so lots of opportunities for everyone in the class to score! How about putting a chart on your classroom wall for students to enter solutions as they find them?

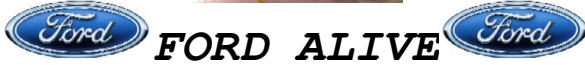
This problem is taken from the NRICH website: <http://nrich.maths.org>

Last Month's Solution

This is how the new goal was built:



Thank you to the students and parents of Ivanhoe Primary School for pointing out the error in the solution to the May Problem of the Month. We acknowledge that you do not see house numbers with a zero at the front (eg. 078, 087) as suggested in the solution.



*Ignite the passion for learning
about industry!*

Ford's unique educational program invites school students to experience the automotive industry first-hand. Put the theory into practice with a real lesson in production and business. Students are exposed to the entire car manufacturing process, from conception of a design to delivery of the vehicle.

Ford Alive can accommodate groups of up to 60 students on plant tours at our Broadmeadows Assembly and Geelong Manufacturing facilities. The Ford Discovery Centre in Geelong also welcomes school groups on a journey through the Australian history of a remarkable international company.

To book a tour, contact the Ford Discovery Centre on (03) 5227 8709.

Teacher of the Year

Council has decided that in 2003 the Teacher of the Year Award will not be awarded. Instead they have allocated further funds to an additional Research Scholarship to encourage teachers undergoing further studies in mathematical education. See below for information about the Research Scholarship, or contact the MAV office on 03-9380 2399.

MAV Research Scholarship

Applications are now sought for the MAV 2003 Research Scholarships. Two scholarships are available for the research component of a Masters or Doctor of Education degree OR towards a research degree (Masters or PhD) are being offered by the MAV for studies in the year 2003. The scholarships are each worth \$1500.

Applicants MUST be individual members of the MAV or work in schools/institutions with institutional membership. The research topic must be in the field of mathematics education. Any relevant research topic will be considered by the selection panel. Further details and an application form are on the MAV website at: <http://www.mav.vic.edu.au/pd/index.html#awards>

Applications close Friday 4th October, 2002. The winners will be announced at the MAV Annual Conference in December.

Games Days 2002

Listed below are the schools that are running Games Days in Term 3. If you are planning to host one and would like the MAV to promote it or provide any advice/assistance, contact Pauline Rogers at the MAV on 9389 0304.

Tuesday 20 August **Year 7 Games Day**, Scotch College. Contact Michelle Linossier for further information on 03-9810 4374 or via email michele.linossier@scotch.vic.edu.au Application form below and on the MAV website.

Friday 30 August **Year 6 Games Day**, Genazzano FCJ College. Contact Phil Tascone for further information on 03-8862 1000 or via email tascop@gen.melb.catholic.edu.au



YEAR 7 STATEWIDE GAMES DAY AT SCOTCH COLLEGE



The Year 7 Games Day organised by Scotch College in conjunction with the MAV, will be held on **Tuesday 20 August 2002**, at Scotch College Senior Campus, Morrison Street, Hawthorn.
Please proceed to the Cardinal Pavilion located at the far end of Morrison Street.

Schools may nominate one or two teams of four students each, at a fee of \$25 (including GST) per team. Teams are invited to register from 9.20am. Games will begin at 9.45 am and conclude at approximately 2.30pm. Lunch will be provided. The Games Day promises to be intellectually challenging, competitive and fun.

Part of the day will feature a construction challenge.

There will be a range of Mathematical book and equipment displays as part of the morning program for teachers.

Details: Students need to bring pens/pencils & morning tea. Calculators are permitted

Please detach the form below and mail it, along with your entry fee, to the address shown below by **1st August**.

Please make cheques payable to Scotch College (ABN: 86 852 826 445).

Further enquiries should be made to Michele Linossier : Extension Studies Co-ordinator on 03-9810 4374, or fax 03-9810 4333. **E-mail: michele.linossier@scotch.vic.edu.au**

* Tax invoice

MATHEMATICS GAMES DAY FOR YEAR 7 STUDENTS, 20 August 2002
Scotch College Senior Campus, Morrison Street Hawthorn Vic 3122
ABN : 86 852 826 445

NAME OF SCHOOL: _____

ADDRESS: _____ POSTCODE: _____

PHONE: _____ FAX: _____

EMAIL: (essential for confirmation of booking) _____

TEACHER CONTACT: _____

NUMBER OF TEAMS: _____

Send this form with your payment to:
Ms Michele Linossier, c/- Scotch College Senior School
Morrison Street Hawthorn Vic 3122

Confirmation of booking will be made by email .

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: ___/___/___

* Note: each school needs to provide a supervising teacher/parent

New Publications!

Have a look at some of the new publications featured in our new catalogue that accompanies this issue of the Common Denominator.

Card Capers

Primary Resource (by Paul Swan)



A collection of games, puzzles and activities that make use of a standard pack of cards. The activities promote mathematical thinking and mental computation. Each activity is accompanied by clear instructions and reproducible materials.

Cost: \$16.50 for members \$25.00 for non-members (48 pages), inc. GST (+p&h)

Dice Dilemmas

Primary Resource (by Paul Swan)

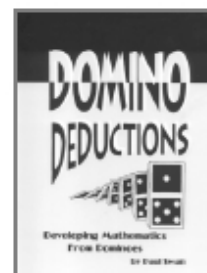


A collection of over 40 games and activities all involving the use of readily available dice. The activities encourage mental computation and thinking about chance processes. Games are supported by clear rules and reproducible game boards.

Cost: \$16.50 for members \$25.00 for non-members (48 pages), inc. GST (+p&h)

Domino Deductions

Primary Resource (by Paul Swan)

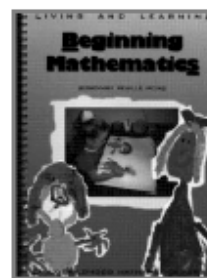


As the name implies this book makes use of ordinary, readily available and cheap materials - double six dominoes, to encourage students to think and work mathematically. Activities are supported by clear teachers' notes and reproducible materials.

Cost: \$16.50 for members \$25.00 for non-members (48 pages), inc. GST (+p&h)

Living and Learning - Beginning Mathematics

Primary Resource (by Rosemary Irons)

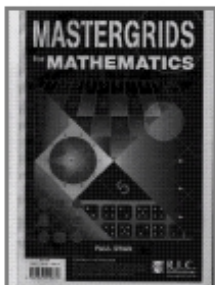


Rosemary Irons provides an effective model for teaching five processes in early childhood mathematics - identifying and describing attributes, matching, sorting, comparing and ordering. The processes are cleverly organised according to the four strands: Number, Measurement, Space and Data. A total of eighty activities have been developmentally sequenced and are supported by more than thirty reproducible blackline masters.

Cost: \$33.00 (134 pages), inc. GST (+p&h)

Mastergrids for Mathematics

Primary and Secondary Resource (by Paul Swan)



A collection of blackline masters that contain all those master sheets that you keep losing! These masters include tangrams, isometric dot paper, clock faces, place value cards, number grids, coordinate grids and graph paper in a variety of sizes. A must for all busy teachers!

Cost: \$34.95 (70 pages), inc. GST (+p&h)

Paper Polygons - Exploring 2D shapes through paper folding

Middle Years Resource (by James Burnett)



Paper Polygons introduces entirely new and exciting ways to explore two-dimensional shapes. It provides directions and related activities for folding fourteen regular and irregular polygons from standard metric A - sized paper. The steps are easier than origami and no scissors, rulers or protractors are required.

Cost: \$ 27.50 (62 pages), inc. GST (+p&h)

Sights, Sounds and Symbols - Classroom activities on the history of numbers

Middle Years Resource (by James Burnett)

The historical and cultural aspects associated with the number systems bring added interest and challenge to

the study of numbers. This book describes the many unique number systems from around the world.



Cost: \$33.00 (154 pages), inc. GST (+p&h)

Year 9 Games Day - Blackburn High School

The Games Day held at Blackburn High School on Wednesday 19 June, was a HUGE success. The day was completely full with 52 teams competing from 29 different schools from all parts of Melbourne. It was great to see 108 students competing as well as many Year 9 students from Blackburn High School helping to run the day. Teachers and students clearly enjoyed the day and many can't wait to return next year.

Well done to the team at Blackburn High School for a fantastic day!

Congratulations to the winning teams:

1st: Camberwell Grammar

2nd: Caulfield Grammar

3rd: Camberwell Grammar

4th: Mt Waverley Secondary College

Congratulations to Mike Cody of Camberwell Grammar who won the staff competition.



Students participating in the Blackburn HS Games Day

Professional Development 2002

Bookings are now being taken for the following professional development activities in 2002 (registration form on the back of this issue). Workshops and their details are also online at www.mav.vic.edu.au

COST:

After School PDs: \$40 per session for members; \$50 for non-members (inc. GST).

Special members offer - make 4 bookings for any combination of after school sessions and only pay for 3!

Full Day PDs: \$120 per day for members; \$150 for non-members (inc. GST). Includes lunch.

Technology Series/Tours: Members: \$30 1 session, \$50 2 sessions, \$70 3 sessions per person (inc. GST). Non-members \$40 1 session, \$70 2 sessions, \$100 3 sessions per person (inc. GST).

Date	Title	Year	Location	Time
Wed 31 July	Activities for Focussed Teaching of Number	P-4	Hamilton	4:30-6:30pm
Tue 13 Aug	Discovering Numeracy Online	TAFE	Brunswick	5:00-7:00pm
Wed 14 Aug	Activities for Focussed Teaching of Measurement	P-4	Hamilton	4:30-6:30pm
Thur 15 Aug	Integrating Computers into Level 4 CSF II Maths	5-6	Kew	4:30-6:30pm
Wed 21 Aug	CAS Technology Series Mildura <ul style="list-style-type: none"> • Introductory Workshop for the TI-89/92+/Voyage 200 • Symbolic Maths Guide on the TI-92+ • Dynamic Geometry on the TI-92+ 	10-12	Mildura	9:30-11:00am 11:30am-1:00pm 2:00-3:30pm
Fri 23 Aug	Middle Years Maths (5-9) Teachers' Day	5-9	South Morang (nth metro)	9:30am-3:30pm
Wed 28 Aug	Activities for Focussed Teaching of Space	P-4	Hamilton	4:30-6:30pm
Thur 29 Aug	Integrating Computers into Level 5 CSF II Maths	7-8	Kew East	4:30-6:30pm
Tue 3 Sep	Integrating Computers into Level 4 CSF II Maths	5-6	Geelong	4:30-6:30pm
Tue 3 Sep	Integrating Computers into Level 5 CSF II Maths	7-8	Geelong	4:30-6:30pm
Mon 9 Sep	Geelong Technology Tour with TI <ol style="list-style-type: none"> 1. Intermediate Workshop for the TI-82/83/83+ 2. Introductory Workshop for the TI-89/92+/Voyage 200 	10-12	Geelong	4:30-6:15pm 7:00-8:30pm
Tue 10 Sep	Warrnambool Technology Tour with TI <ol style="list-style-type: none"> 1. Intermediate Workshop for the TI-82/83/83+ 2. Dynamic Geometry on the TI-92+ 	10-12	Warrnambool	4:30-6:15pm 7:00-8:30pm
Wed 11 Sep	Hamilton Technology Tour with TI <ol style="list-style-type: none"> 1. Intermediate Workshop for the TI-82/83/83+ 2. Advanced Workshop for the TI-83+ 	10-12	Hamilton	4:30-6:15pm 7:00-8:30pm
Wed 11 Sep	Activities for Focussed Teaching of Chance & Data	P-4	Hamilton	4:30-6:30pm
Thur 12 Sep	Ballarat Technology Tour with TI <ol style="list-style-type: none"> 1. Intermediate Workshop for the TI-82/83/83+ 2. Advanced Workshop for the TI-83+ 	10-12	Ballarat	4:30-6:15pm 7:00-8:30pm
Mon 16 Sep	Drouin Technology Tour with TI <ol style="list-style-type: none"> 1. Intermediate Workshop for the TI-82/83/83+ 2. Advanced Workshop for the TI-83+ 	10-12	Drouin	4:30-6:15pm 7:00-8:30pm
Tue 17 Sep	Leongatha Technology Tour with TI <ol style="list-style-type: none"> 1. Intermediate Workshop for the TI-82/83/83+ 2. Advanced Workshop for the TI-83+ 	10-12	Leongatha	4:30-6:15pm 7:00-8:30pm
Wed 18 Sep	Maffra Technology Tour with TI <ol style="list-style-type: none"> 1. Intermediate Workshop for the TI-82/83/83+ 2. Introductory Workshop for the TI-89/92+/Voyage 200 	10-12	Maffra	4:30-6:15pm 7:00-8:30pm
Thur 19 Sep	Bairnsdale Technology Tour with TI <ol style="list-style-type: none"> 1. Intermediate Workshop for the TI-82/83/83+ 2. Introductory Workshop for the TI-89/92+/Voyage 200 	10-12	Bairnsdale	4:30-6:15pm 7:00-8:30pm

See over for further details.

Professional Development 2002 cont.

COST:

After School PDs: \$40 per session for members; \$50 for non-members (inc. GST).

Special members offer - make 4 bookings for any combination of after school sessions and only pay for 3!

AFTER SCHOOL EVENTS	Venue	Date & Time
Integrating Computers into Level 4 (Year 5 & 6) CSF II Mathematics <i>(Presented by John Vincent)</i> This session will introduce participants to the ways MSWord and Excel (or equivalent word processors/ spreadsheets) can be used in many creative ways in the mathematics curriculum, not just those mandated by the CSF. We will work with the CSF strands of Chance and Data, Shape and Space and Number to construct useable teaching units integrating the technology with the curriculum so that small groups can use the material in the numeracy block. These sessions will be run in a computer lab.	Kew PS, Peel Street, KEW	Thur 15 Aug 4:30-6:30pm
	Grovedale SC, Wingarra Drive, GROVEDALE	Tue 3 Sep 4:30-6:30pm
Integrating Computers into Level 5 (Year 7 & 8) CSF II Mathematics <i>(Presented by Jill Vincent)</i> This workshop session will introduce participants to the dynamic geometry software, Cabri Geometry II, and show how it can be used in Years 7 and 8. The software may be used with pre-prepared files to demonstrate relevant geometry or may be used in an open-ended manner, where students can explore, discover relationships and, with teacher guidance, develop explanations for their discoveries. The session will also include some examples of the use of spreadsheets at Years 7 and 8, and a glimpse of how the software MicroWorlds can be used to enhance understanding and enrich the learning of mathematics at this level. These sessions will be run in a computer lab.	Kew High School, Burke Road, KEW EAST	Thur 29 Aug 4:30-6:30pm
	Grovedale SC, Wingarra Drive, GROVEDALE	Tue 3 Sep 4:30-6:30pm
Activities for Focussed Teaching of Number <i>(Presented by Peter Martin)</i> Considerable focus has been placed upon open-ended questions and activities as part of the early years strategies for primary teachers. This series of four sessions has been primarily designed for early years teachers and will provide activities for focussed teaching of Number, Measurement, Space, and Chance & Data. Each session will explore one of these topics in turn with respect to the effective use of open-ended questions and creative group work as a means of enhancing teaching in these areas. Participants will be expected to engage in a range of activities, designed to explore and develop strategies for use in the classroom.	The Hamilton & Alexandra College, Junior Campus, Chaucer Street, HAMILTON	Wed 31 July 4:30-6:30pm
Discovering Numeracy Online <i>(Presented by Dave Tout & Penny Halliday)</i> Over recent years, much money and resources have been put into online resource development, often at the expense of print based or even multimedia based resources. There has been a rush to develop websites. Not all have been successful. However, there have been a number of sites that have attempted to be innovative and still cater for the needs of learners and that utilise the benefits of learning online and the WWW. This presentation will visit a range of numeracy or maths sites developed in the adult education sector (including Victoria's TAFE Virtual Campus) that are seen to be useful for teaching numeracy. It will also briefly consider the advantages and disadvantages to using online resources, compared to both print based and other multimedia products.	"Cliveden" MAV Office, 61 Blyth Street, BRUNSWICK	Tue 13 Aug 5-7pm
Activities for Focussed Teaching of Measurement <i>(Presented by Peter Martin)</i> See above for session description.	HAMILTON	Wed 14 Aug 4:30-6:30pm
Activities for Focussed Teaching of Space <i>(Presented by Peter Martin)</i> See above for session description.	HAMILTON	Wed 28 Aug 4:30-6:30pm
Activities for Focussed Teaching of Chance and Data <i>(Presented by Peter Martin)</i> See above for session description.	HAMILTON	Wed 11 Sep 4:30-6:30pm

Professional Development 2002 cont.

CAS Technology Full Day (Mildura) & Technology Tour Series



***Proudly Supported by Texas Instruments**

COST: Members: 1 session \$30, 2 sessions \$50, 3 sessions \$70 per person (inc. GST). Non-members 1 session \$40, 2 sessions \$70, 3 sessions \$100 per person (inc. GST).

The MAV, in conjunction with Texas Instruments, is hosting a CAS Technology day in Mildura, and a series of technology tours around Western and Eastern Victoria in Term 3. The East and West tour venues are Geelong, Warrnambool, Hamilton, Ballarat, Drouin, Leongatha, Maffra and Bairnsdale. The following topics will be presented by TI's Peter Fox. Topics vary from venue to venue (see PD listing on page 9 for the topics at your venue).

1. Introductory Workshop for the TI-89/92+/Voyage200

This workshop will focus on the introduction of computer algebra systems (CAS). It assumes that teachers have used a graphing calculator such as the TI-82/83/83+ range. It does NOT assume any knowledge of the TI-89/92+/Voyage200. Teachers do not need to be taking CAS methods to benefit from this workshop. It is relevant to all VCE mathematics teachers. The workshop will focus on using a CAS to perform the following operations: substitute a value into a variable, solve an expression for a given variable, solve an equation for a given value, define a function, factorise a function, graph a function, the y = editor, and basic Calculus

2. Intermediate Workshop for the TI-82/83/83+

This workshop is suitable for teachers that have been using the TI-82/83/83+ for a number of years and wish to extend their knowledge of the graphical calculator. It is assumed that teachers in this workshop have used the calculator to draw basic graphs and have used some of the menu items available on the calculator. *Many* of the calculator operations dealt with in this workshop are appropriate mainly to VCE mathematics teachers. Topics will include: Graphing techniques, using the CBR™ with the calculator, using calculator programs, and using the probability distributions on the TI-83(+)

3. Advanced Session for the TI-83+

This workshop is designed for experienced users of the graphical calculator. Some of the session details require an TI-83(+) calculator to be used. (*These can be supplied upon request.*) A personal computer or notebook computer would be of some benefit for this session. (*Note: An IBM R30 Notebook computer will not work in this session.*) Topics will include: Using TI-Connect software to link a graphical calculator to a P.C., transferring data P.C. ↔ Calculator, writing basic programs for the TI-82/83/83+, and working with applications (APPS) such as Start-up*, Logic Ladder*, Probability Simulation*, Inequality, and Transformations. (**Free*)

4. Dynamic Geometry on the TI-92+

The TI-92+ can be used to run either Cabri Geometry or Geometer's Sketchpad. Although a computer will give a more user-friendly environment to work with, the calculator adds genuine portability and access to Dynamic Geometry. Topics will include: Introduction to & examples of, drawing a triangle in Cabri, drawing parabolas, and finding the circumcentre of a triangle.

Participants need to indicate on their PD application form which calculator they have or which one they would like Texas Instruments to supply.

Full session details and a booking form for the Technology Tours are included on a flyer with this mailout. Details and application forms for all PDs can also be found on the MAV website at www.mav.vic.edu.au/pd/index.html

Diagnostic Topic Tests 2000 Edition

Maths Methods – Units 1, 2, 3 & 4

Further Maths – Units 3 & 4

Specialist Maths – Units 3 & 4

Diagnostic Topic Tests

- have been specifically written for the currently accredited VCE Mathematics courses.
- allow teachers to monitor and identify students' strengths and weaknesses throughout the year.
- contain fully-worked solutions with diagnostic comments and mark allocation.
- provide questions which develop skills and 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.

Also available for Biology, Chemistry, Physics & Accounting.

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- Exams for Units 1 & 2 are ideally suited to be used by teachers for their final testing of students.
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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 Victoria 3053 Tel 03 9663 2523 Fax 03 9663 7182 Web Site www.neap.com.au

MAV Publications Order Form

TAX INVOICE

To order any of the publications advertised in this newsletter, fill out the details below and return this form with your payment to the MAV at 61 Blyth Street, Brunswick, Vic, 3056 or by fax on (03) 9389 0399.

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Professional Development Application Form

TAX INVOICE

School: _____

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Telephone: _____ Fax: _____

Principal's Endorsement (if required): _____

MAV Membership: Institutional Individual Non-member

JCSAN Member: If member, name of Association: _____

Please reserve places for the following:

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Please return this form to:

The Mathematical Association of Victoria (ABN 34 004 892 755)

Cliveden, 61 Blyth Street, BRUNSWICK VIC 3056, Tel. 9380 2399, Fax. 9389 0399

ACKNOWLEDGEMENT LETTERS

Letters of acknowledgement 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 48 hours prior to the session.