

Professional Development Application Form

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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. 203 April, 2004

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Annual Conference 2004 Thursday 2nd & Friday 3rd December

'Towards Excellence in Mathematics'

The Call for Options form for 2004 is available 'live' via our web site at <http://www.mav.vic.edu.au/pd/confs/index.html>, or, download the form and mail or fax it to us to: 03 9389 0399

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.

Below is a quote from one of our presenters at the 2003 Conference:

"Thank you for both the encouragement and opportunity to present a workshop at the Conference. You made it easy to participate. I am a novice, so it was good to have the support from the conference team and the advice from the editorial team for my paper. (I got a buzz out of seeing the polished finished product in print.) Thanks for all your work and support for the Conference, and for making it easy for me to do my bit."

Being an MAV Conference presenter is easy!

2004 Membership Subscriptions

2004 membership information and tax invoices were included in the November 2003 mail-out.

To renew your membership for 2004 you will need to complete a Membership Renewal Form

If you haven't received your copy, please contact the MAV office on 9380 2399 or download one from: www.mav.vic.edu.au/assinfo/member.htm

Membership renewal payments for the 2004 subscription period (1 January to 31 December) **are now due. Un-financial members are now being removed from our lists.**

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
Country Venue - Ballarat - Monday 7th June
Metropolitan Venue - Moorabbin - Monday 9th August

Middle Years Maths Days 9am-3.30pm
Country Venue - Bendigo - Friday 11th June
Metropolitan Venue - Croydon - Friday 3rd September

2004 MAV MATHS TALENT QUEST

Have you sent your application for the 2004 MTQ yet?
If not, you can download the Information and Application booklet from
<http://www.mav.vic.edu.au/studact/mtq.htm>.

Closing date for entries is: **Friday 30th April, 2004.**

Do you or your students have cheques from MTQ 2003 that have not been banked?

If so, please bank them as soon as possible.

*Payment on **all** outstanding cheques will be stopped at the end of May 2004*

From the President



Australia's Teachers: Australia's Future

The next year or two are likely to be very significant years for Australian teachers of mathematics, science and technology. In very short time we have had the

- publication of the AAMT Standards of Excellence for the Teaching of Mathematics
- establishment of the Australian Mathematical Sciences Institute with a significant grant from the Victorian Government
- establishment of an International Centre of Excellence in Mathematics Education
- Review of Teaching and Teacher Education (Science, Technology and Mathematics) by the Australian Government and accompanying Report and Agenda for Action
- announcement of the National Institute for Quality Teaching and School Leadership

AAMT Standards for Excellence

Developed by teacher focus groups around the country over a three-year period, these provide a lens through which the profession can view itself and a vision for teachers of mathematics to work towards. Two projects, one by AAMT, the other by Monash University are currently exploring ways in which teachers can demonstrate their competence with a view to establishing a certification process for highly accomplished teachers of mathematics. It is the intention that any such process is voluntary and kept in the hands of the profession. The AAMT Council meeting in January resolved that, from 2004 onwards, all professional development offered by State Associations should indicate the Standards being addressed. The Standards may be viewed and downloaded from <http://www.aamt.edu.au/standards/>

Australian Mathematical Sciences Institute (AMSI)

AMSI is a collaboration of 24 members including Australian universities, the Australian Mathematics Trust, CSIRO and the Australian Bureau of Statistics. AMSI aims to address some of the challenges facing the mathematical sciences in Australia.

Initial funding of \$1 million has been obtained from the Victorian Government through its Science, Technology and Innovation Infrastructure Grants program. AMSI organises summer programs for older students and conferences and workshops for educators, mathematicians and statisticians. AMSI sponsored Dr Clio Cresswell to speak about Maths and Careers at the Age VCE and Careers Expo, Caulfield Racecourse on Saturday, 20 March. Learn more at <http://www.amsi.org.au/>

International Centre of Excellence in Mathematics Education

The Australian Government has provided \$7.8 million over four years for the creation of a new Centre of Excellence which intends to strengthen mathematics teaching in Australia and attract international recognition for our mathematicians.

The Centre will be established by the Australian Mathematical Sciences Institute (AMSI) and based at the University of Melbourne. The Centre will work with education authorities to strengthen the teaching of mathematics in the school and VET sectors and make young people more aware of the significant career benefits possible through improved mathematics skills.

Review of Teaching and Teacher Education and Agenda for Action

It is significant for mathematics teachers that this report is subtitled *Advancing Innovation, Science, Technology and Mathematics*. It is a most comprehensive report and was considered at length by the January 2004 meeting of the AAMT Council. The Agenda for Action has 10 Chapters and 54 Actions. It was pleasing to see so many Actions directly related to improving conditions for teachers and making the profession more attractive to graduates. The following three sections in particular (pages 15 to 42) are recommended (and hopefully heartening) reading.

- *Planning and collaboration to attract and retain quality teachers*
- *Revitalising the teaching profession*
- *Strengthening teacher education and professional learning*

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.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	Term 2 - Description	Cost
Thursday, 3 June 2004 4.30pm – 6pm Cliveden, MAV office Brunswick	Using Collaborative Discussion in Primary Mathematics 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 practice.	\$30 members \$40 non-members (incl. GST). Please register using the Application Form on Page 12 or download from the website at www.mav.edu.au/pd/pd2004.htm
Monday, 7 June 2004 9am-3.30pm Ballarat	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. All prices are GST inclusive
Friday, 11th June 9am-3.30pm Bendigo	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).	Use the enclosed flyer to register for this day or download from our website www.mav.edu.au/pd/pd2004.htm
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. (Registration forms will be available shortly)

National Mathematics Summer School 2004

Clare Bajraszewski and Alex Papachristos

On January 4th, together with 80 other students from around Australia, we arrived at the Australian National University (Canberra) to take part in the 2004 National Mathematics Summer School. We weren't really sure what to expect from NMSS...but fortunately, it proved to be everything we had hoped for and much more!

Over the two weeks, we attended a series of lectures on Number Theory, Game Theory and Algorithms, taken by three highly qualified lecturers in Professor Terry Gagen, Steve Lack and Tom Körner respectively. We were pleasantly surprised to actually understand most of the material covered in these lectures...although applying this knowledge to actual problems was sometimes a different story! Through talks given by professional mathematicians, we were also able to discover the broader applications of maths in the 'real world'. All in all, NMSS was an invaluable opportunity to learn about topics which would not normally be covered at school, and to look at maths from a variety of new and different perspectives.

However, our stay at NMSS was far from being just maths. We had plenty of free time in which to enjoy activities such as shopping, swimming, playing tennis, and going to the cinema or Zone 3, or simply staying at the university and watching the cricket (or falling asleep in front of the cricket, as the case may be). There was also the opportunity to visit a number of Canberra's major tourist locations, such as Questacon (this was a particular highlight), Black Mountain Tower, Parliament House and the Australian Museum.

We were particularly shocked by the scenes of destruction and devastation at Mount Stromlo Observatory, almost exactly a year on from the tragic fires of 2003. One of the most memorable (not to mention amusing) experiences was the final night's formal dinner and concert, where we realised not only the amazing talents of our fellow students, but also the extreme lengths to which some people will go in order to get cheap laughs...

Students, lecturers and tutors alike, the people with whom we spent our time in Canberra were a very friendly bunch: this helped to make the camp a great success. Many people (especially Clare) became very emotional when the time came for us to part on January 17th, as we were leaving behind many great friends with whom we had spent a highly memorable two weeks.

Although the idea of "maths summer school" was initially more than a little daunting to us, NMSS proved to be a fantastic experience which we would highly recommend to prospective students: we learnt plenty of new mathematical skills, whilst making friends from all over Australia and simply having a great time. Many thanks must go to Mr Vlantis, for his efforts in getting us involved!



Copies of the *Review of Teaching and Teacher Education and Agenda for Action* can be downloaded from <http://www.dest.gov.au/schools/teachingreview/>

National Institute for Quality Teaching and School Leadership

The NIQTSL comes from Action 28 of the Agenda for Action and will commence in 2004. It aims to build the professional capacity, professionalism and status of teachers and leaders and to improve the quality of teaching and leadership. In achieving these aims, the NIQTSL would strengthen the broader community's understanding and perception of teaching as a profession and the leadership attributes needed for quality outcomes. The Australian Government intends that the NIQTSL will be managed by the profession for the profession to enhance the quality and status of school teachers and leaders. Its functions will potentially cover five areas:

- school leadership capabilities
- professional standards
- provision and coordination of professional development
- quality assurance, and
- research

The AAMT made a detailed submission in regard to the operation of the NIQTSL, which may be

Ray Peck, President

Host a PD!

Would your school like to host an after-school PD program for 40 people? Or perhaps you know a venue that could cater for full-day programs for 150 people (with 4 to 5 break-out rooms for individual sessions)?

We are particularly interested in inner and outer Melbourne (North, South, East, West) and country regions including Bairnsdale, Benalla, Bendigo Camperdown, Shepparton, Bendigo, Seymour and Albury. We can always consider changing to a different location if your town is not mentioned.

If you are interested in volunteering a venue or have any suggestions contact Mary Walkinshaw on: 9380 2399 or mwalkinshaw@mav.vic.edu.au

read along with other submissions at <http://www.allenconsult.com.au/NIQTASL/>

Future gains?

Hopefully these initiatives will quickly lead to benefits for students and teachers in Australian schools. The loss of Australian mathematics teachers to education systems overseas and to other careers is at an all-time high. Due to this overseas 'brain drain' and other factors such as retirement, by 2010 a significant shortfall of mathematics teachers in Australia is predicted if current trends continue.

Given the above reports and initiatives, it is hoped that teacher salaries and conditions will quickly improve so that these are no longer issues for dispute as in recent times. It is unacceptable to have as much as \$4 000 difference between teacher salaries in Australian states.

Furthermore, research continues to show that it is teacher quality that has the greatest effect on student outcomes. The sooner quality teachers of mathematics are identified, attracted, appropriately rewarded and retained in all Australian states the better for Australian students. Hopefully, a national approach to education in regard to curriculum, teacher employment and conditions is not far away.

Hassle Free PD!

Our Hassle Free PD service gives you a chance to provide staff with high-quality professional development without the fuss. We organise the presenter/s for you!

A session after school, a full day or just 1/2 day, one presenter, many presenters. Programs can be individually designed to suit your needs.

For more details regarding the cost of this service, refer to our website at:

<http://www.mav.vic.edu.au>

VCE Mathematics Resources for 2004

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Maths Methods CAS for Exam 1 & Exam 2 (2 Books)
Specialist Maths for Exam 1 & Exam 2 (2 Books)
Further Maths for Exam 1 & Exam 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.

Trial Examinations 2004

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

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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.

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

Web Review

This month we feature a series of websites on the use of an under-utilised resource – *the tangram*. These sites offer a wide range of activities on using tangrams to teach area, smaller units of length, fractions, symmetry, names of polygons, and much more.

Tantalising Tangrams – Year 3 lessons/activities that could easily be adapted for other levels.
<http://www.teachnet-lab.org/ps101/chornik/tangramindex.htm>

Tantalising Tangrams
Watch the Tangram Movie!
What IS a Tangram?

Make your own set of Tangrams from scratch!
Try putting these together online! Fun!!
Tangram Puzzles: Print out the page and try to make them! There are six sets of puzzles!
Make a Tanscape!!!
<http://www.manatee.k12.fl.us/sites/elementary/palmasola/psgtan.htm>

What's in a Shape?
Constructing tangrams
How do tangrams work?
How are the shapes related?
<http://www.sciencenetlinks.com/lessons.cfm?BenchmarkID=2&DocID=135>

Constructing your own set of Tangrams
<http://mathforum.org/trscavo/tangrams/construct.html>

Interactive Tangram
<http://www.tangram.i-p.com>

International Tangrams Society
<http://www.support@stargraphics.com/tangrams.htm>

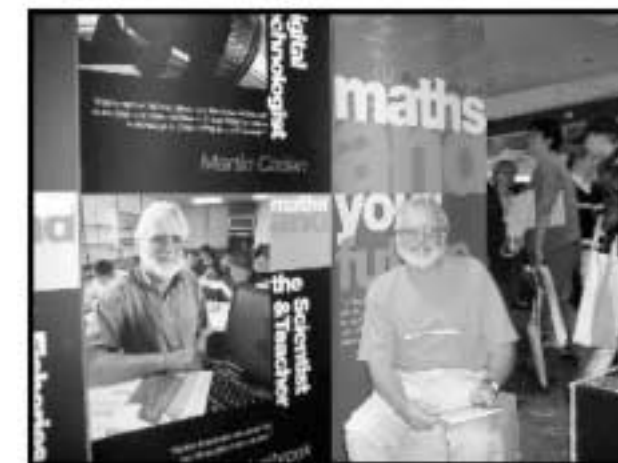
Tangram Puzzles, Pentominoes and lots more
<http://www.ex.ac.uk/cimt/puzzles/puzzindx.htm>

Exploring Geometry with Tangrams
Great site for Year 7 with many activities that are suitable for upper primary and others that are adaptable for other levels.
http://www.create.cett.msstate.edu/create/classroom/lplan_view.asp?articleID=129

The Age VCE & Careers Expo



Jan Thomas of the Australian Mathematical Sciences Institute and our own Simon Pryor commissioned the design and construction of a *Careers and Mathematics* stand for this year's Career Expo. Over the weekend of 19 – 21 March 2004 MAV staff and volunteers handed out thousands of copies of a new careers brochure, *maths and your future*. The brochure features case studies of several people and their careers through mathematics, including MAV Councillor Mike Westbrook. Dr Clio Cresswell inspired a new generation of mathematicians when she spoke about *Shares, Stars, Sex, maths is always there*. Steve Raffellis from St Michael's Grammar completed the MAV contribution to the Expo when he briefed 500 VCE students on what to expect over the next few months on Maths Methods Units 3 and 4.



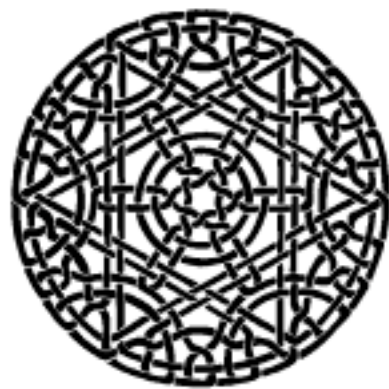
Games Days 2004

Year	School	Date	Contact	Email
5	St Catherine's College	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	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
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	mcnamaam@mlc.vic.edu.au

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

The Geometry Junkyard

<http://www.ics.uci.edu/~eppstein/junkyard/>
Looking for great ideas relating to geometry? Check out this interesting website. This illustration comes from a link to *Algorithmic Mathematical Art* at http://xahlee.org/Periodic_dosage_dir/t1/20040113_cmaci_larcu.html



PROBLEMS OF THE MONTH

- 876 + 429 = 1305 is one way to write a sum which uses all digits (0-9) only once. How many different ways are there to do this?
- The four members of U2 (Bono, Edge, Adam, and Larry) must cross a bridge in 17 minutes in order to get to their concert on time. The conditions: 2 people can cross at a time and they walk at the slower person's rate when crossing (Bono - 1 min to cross, Edge - 2 minutes, Adam - 5 minutes, Larry - 10 minutes). They must travel with the one flashlight when crossing.

How can everyone get across within 17 minutes?
- The city of Icosapolis has four rows of five houses each [in a rectangular grid]. You have a contract to paint all 20 houses. It takes your crew one day to paint a house, and then it takes three days for the paint to dry on that house. Local laws forbid you to paint next to a house with wet paint, either horizontally, vertically, or diagonally. Determine an order in which you can paint all 20 houses in just 20 days. Is there more than one solution?

These problems are just a small sample of a great selection of problems complete with answers on the Numerica website at <http://home.att.net/~numerica/answer/recreational.htm#pandigits>

Answers next month

Answers to March Problems of the Month:

- 2178
- a. 7, 8, 9 b. 3, 4, 5 or 15, 16, 17 c. 9, 10, 11 d. 14, 15, 16
- 3a. Eight b. Eighteen

SciTech Careers

The Department of Industry, Innovation and Regional Development, La Trobe University, the Australian Computer Society and the Defence Science Technology Organisation have combined resources to stage **SciTech Careers**. This will involve a series of presentations to tertiary students from all eight Victorian universities and will be at the **Victory Room, Telstra Dome, in Melbourne on 29 April 29, 5:30-9:00pm**. The organisers invite mathematics teachers to come and learn more about where future opportunities lie and about some of the different work roles that graduates take on as well as careers out there about which they may not even know.

Speakers who will be participating vary from a communications specialist in environmental information to an actuarial analyst, from a scientific recruitment agent to a biomedical engineer who has worked for NASA!

For details of how to register and a full program visit: <http://www.gradlink.edu.au>

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Genazzano FCJ College

Year Six Games Day

Genazzano Mathematics Club in association with the MAV is hosting the fourth Year 6 Games Day on Friday, 27 August 2004 in Centenary Hall at Genazzano FCJ College. The Games Day intends to be challenging and competitive but, more importantly, fun.

Schools are invited to nominate **one or two teams** of four students each, at a fee of \$20 per team. The day's activities will begin at 10am with registration starting at 9:30am. The day is planned to conclude around 2:30pm. Students will be required to bring their own lunch. Naturally a teacher must accompany each school's team/s. Lunch will be provided for teachers.

The cut-off date for applications is **Friday, 25 June 2004**.

Please be aware, however, that there is an upper limit of 50 teams, and these places always fill well before the cut-off date. So register as soon as possible. **Register by completing the electronic form at www.mav.vic.edu.au/studact/games_days.htm as soon as possible, and then post the printed form, accompanied by payment.**

Note: Each school needs to provide a supervising teacher/parent.

Schools will receive further written confirmation and more specific details about the day early in Term 3.

Further enquiries should be made to Phillip Tascone on (03) 8862 1000 or tascop@gen.melb.catholic.edu.au

Mr Phillip Tascone
Curriculum Leader, Mathematics
Genazzano FCJ College

Tax Invoice

Year 6 Mathematics Games Day, Friday August 27, 2004, at

Genazzano F.C.J. College

301 Cotham Road, Kew Vic 3101, Australia

Telephone: (03) 8862 1000 Facsimile: (03) 8862 1133

ABN: 130 6465 8975

Name of School: _____

Address: _____ Postcode: _____

Phone _____ Fax: _____ Email: _____

Teacher Contact: _____ Number of Teams: _____

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. Please make cheques payable to Genazzano FCJ College

Page 7 April 2004

YEAR 7 'CITY/COUNTRY' STATEWIDE GAMES DAY AT SCOTCH COLLEGE, OVERNEWTON COLLEGE (KEILOR) & ST.PAUL'S ANGLICAN GRAMMAR SCHOOL.

The Year 7 'City/Country' Maths Games Day 2004, an initiative of St Paul's Anglican Grammar School Warragul, Scotch College, Overnewton College Keilor and the MAV, will be held on Tuesday, 31st August at Scotch College Senior Campus, Morrison St, Hawthorn, Overnewton Keilor Campus and St Paul's Anglican Grammar Warragul. Registration for the day needs to be completed using the appropriate form for the venue of your choice.

CITY REGISTRATION FORM: SCOTCH COLLEGE

- Schools may nominate one or two teams of four students each, at a fee of \$30 (including GST) per team.

Please proceed to the Cardinal Pavilion located at the far end of Morrison St.

- Teams may register from 9:20am. Games will begin at 9:45am and conclude at 2:45pm. Morning tea will be provided. Students are asked to bring their own lunch. 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. Each school must provide a supervising teacher/parent.

Students need to bring pens/pencils & lunch

Calculators are permitted

Further enquiries should be made to Michele Linossier:

Extension Studies Co-ordinator on 9810 4374

or email: michele.linossier@scotch.vic.edu.au

OR

Please register online only at www.mav.vic.edu.au/studact/games_days.htm