

Calendar Terms 3–4, 2008	
September	
2	Investigating: Maths Award Ceremony
19–21	Annual Conference
October	
16	Annual General Meeting, MANSW Office

Annual General Meeting
MANSW Annual General Meeting will be
held at the MANSW Office
Thursday 16 October 2008
7.00 p.m.

From the President

Welcome to Term 3, second half, and in school we are busy setting and marking major assessments or examinations. Similarly at MANSW the office staff and volunteer executive staff are busy preparing for the Annual Conference from Friday 19 to Sunday 21 September at the Novotel at Northbeach, Wollongong. Scott Lankshear is our Conference Convener. He and his Conference Committee colleagues have prepared a packed program including keynote speakers to engage us all, and three days of sessions filled with fantastic workshops and seminars. The conference dinner-dance is organized, and the friendly people at Novotel are checking technology facilities are in order, breakout rooms and function rooms will cater for our needs, and staff are ready to welcome us. For further conference details please check the MANSW website.

This newsletter was posted on 24 August. I hope you received it before the 1 September, because that's the closing-date for applications to the 2008 Caltex and Rotary Club of Sydney Awards for innovation in Teaching. Three winners will each receive an educational trip valued at up to \$7000. Visit the MANSW website and look under 'what's new?' for more details. Similarly, if you act quickly there should still be time for your school to get involved in National Literacy and

Numeracy week 2008 from Monday 1 to Sunday 7 September. This is a free event. Particulars about the fun activities and a link to the NLNW website are posted on the MANSW website.

MANSW will soon be turning 100 years old. We will be celebrating, of course, and to mark this event MANSW will publish something special. You are invited to offer a contribution by sending in your version of *'the stories we tell'* to the MANSW office. Whether it's a story that you've heard before and use in your class, or an original story that you've made up, we want to hear from you. This is a K–12, urban, and rural, project, so please get involved.

Will the National Curriculum impact on my work teaching mathematics in NSW? Most people seem to think it will, although it is definitely too early to know how much. At MANSW we are getting involved, we've attended an initial meeting, and there are bound to be others. As news becomes available we will keep you informed, so keep an eye on these newsletters as well as the MANSW website.

The Stage 6 suite of Mathematic courses are coming. The consultation period for the draft syllabus has ended and syllabus writers are back at work editing certain aspects of the draft documents. It is understood that accompanying the new syllabus documents will be a revised set of calculator specifications. The new specification will apply to *all* new stage 6 Mathematics courses, including General Mathematics. Students moving between Calculus and General courses will no longer need to change calculators. Senior schools have 2009 to prepare for implementation, with the first Year 11 classes under the new syllabus in 2010.

Here's a reminder about Luna Park 'Learn as they Ride'. It's a fun excursion and the worksheet material supports Secondary Mathematics content. Specific days have been set aside for school bookings in September, October, and November. In order to secure the date that suits your school, check the MANSW website and apply. If you want to chat about the details, contact our friendly

office staff by email, through the website, or by telephone 9878 1487.

The 2008 MANSW AGM will take place at the Kent Road office on Thursday 16 October at 7 p.m. Current members are invited to attend. If you'd like to be a part of the MANSW executive, then 2009 is an exciting time to join. For more information please email our Professional Officer, Bernice Beechey; her email address is Office@mansw.nsw.edu.au.

DAVID KEANAN-BROWN

**Are you registered yet for the
MANSW Annual Conference
at
Novotel Northbeach,
Wollongong
19–20 September?**

Registrations will close when the conference is full, so if you haven't registered yet, put it on the top of your 'To Do' list. See the enclosed brochure for more conference details, including a registration form. Be sure to register and book your accommodation to avoid disappointment! All of the presentation synopses are available on the MANSW website so that you can see the wide range of topics addressed.

We hope to see you there

Student Services

Luna Park

Change of Days Available for Mathematics at Luna Park

Are you considering a Mathematics excursion to Luna Park? Please take into account that Luna Park will now only be open on Mondays and Fridays during school term until the end of the year so look at your school calendar to find a suitable date. We have added extra Mondays and Fridays to the available dates so look at the included flier to choose a date to suit your students.

Investigating: Mathematics

The results of this year's Investigating: Mathematics competition are included in this newsletter. Congratulations to the winning students and their teachers. The winning entries will be on display at the presentation ceremony, which will be

held in the Kent Road School Hall at 4 p.m. on Tuesday 2 September.

The stories we tell

Remember to send your items for inclusion in the MANSW publication, *The Stories We Tell*. In particular we are short of items suitable for K–6 students.

Items of Interest

National Literacy and Numeracy Week 2008, 1–7 September

Join schools across Australia and get your students collecting, sharing, and investigating data! This year, the sixth annual *Reach for the Stars* project will see students making and testing predictions about the distribution of coins thrown onto a target.

For more information about this popular free annual project for all students from preschool to secondary go to www.nlnw.edu.au where you can register online.

The Maths Olympics

Maths Comedian Simon Pampena will bring his acclaimed show to Sydney as part of a national tour to prepare Australians for the biggest sporting event of the year, *The Maths Olympics*. The Maths Olympics is a high-energy interactive hour of music, comedy, dance, and maths during which Pampena shares the passion we need to be number 1 in the world's greatest sport. As part of National Science Week he will tour the country, turning dormant maths potential into gold medal reality.

There will be three *free* performances: Friday 22 August at the Big Night of Science, 6.30 p.m. at the Powerhouse Museum and Saturday 23 August at Family Science day 11.00 a.m. and 2.00 p.m. at the ABC Centre, Ultimo. Maths Content suitable for Year 6 and up.

Awards for Innovation in Teaching

Caltex and the Rotary Club of Sydney are offering awards for Innovation in Teaching for pioneering New South Wales teachers. Primary and secondary school teachers across the state are invited to submit entries for the annual award program that seeks to acknowledge the work of remarkable New South Wales teachers who are making a contribution through their innovative programs for students or teachers or practices in their schools. Three winners will be chosen and rewarded with an educational trip abroad, valued at up to \$7000 each. The purpose of the trip is to give teachers

the opportunity to share and learn more about their area of academic innovation in an international environment.

Entries for the 2008 Caltex and Rotary Club of Sydney Awards for Innovation in Teaching must be received by Monday 1 September 2008. More details and entry forms are available at www.caltex.com.au/community_spo_teach.asp or by calling 02 9488 3200.

Free Australian IT resources

Rod Krause, Head of Mathematics at Dubbo Christian School, has over 70 modules on his website, www.numeracyhelper.com, that are free to download. His goal is to help other mathematics teachers to use more technology in their teaching. Rod is sharing his skills with anyone who wants them. The modules can be used interactively or printed. Rod frequently adds to the free modules

and he invites teachers to submit requests for electronic activities. He will custom make activities, but the catch is that the activities must be shared with the rest of the mathematics community so that all students get the opportunity to use them. He can be contacted through the 'contact us' section of the website.

**Copy for Newsletter No. 7 is due by 19/9.
Publication date is 13/10.**

Member of the Month

This month's lucky winner is Meg Smith of Rankin Park. Congratulations, please contact the MANSW Office to claim your book-voucher prize.

INVESTIGATING: MATHEMATICS 2008 RESULTS

<i>Award</i>	<i>Category</i>	<i>Year</i>	<i>Investigation Title</i>	<i>School</i>	<i>Name(s)</i>
First	Class	K	Investigating Smarties	St Joseph's Primary School	KJS
Second	Class	K	What's for lunch?	St Joseph's Primary School	KCS
Merit	Class	K	How to create a class cafe—and have fun with learning too!	Santa Sabina College	Kindergarten
Merit	Class	2	Year 2's Museum—Mathematical Excursion	Santa Sabina College	2 Lawson
First	Individual	3	My tickets to the Olympics	The Scots School Albury	Jeremy Kingsell
Merit	Individual	3	The statistics of World Soccer	Fr John Therry Primary School	Sebastian Abagi
Merit	Individual	3	The Summer Olympics Count Up	The Scots School Albury	Jesse Challis
Merit	Individual	2	The Oxfam Trailwalker	Loquat Valley School	Harrison Keys
Merit	Small Group	3	Body Brain Stormers	Fr John Therry Primary School	Tessa Blanks Sally Adams Orna Monaghan Jasmine Collins
Merit	Small Group	3	How does your household recycling compare with the national average	Fr John Therry Primary School	Finn Waugh Lewis McNamara Oliver Harris Kentaro Shibata
First	Individual	4	Painting Our House	St Joseph's Primary School	Annalise Loveridge
First	Small Group	4	Queenie, the Melbourne Zoo elephant	St Joseph's Primary School	Gurkirat Sidhu Anne Lovegrove Shaun McManus Blake Lloyd Sophia Manahan

<i>Award</i>	<i>Category</i>	<i>Year</i>	<i>Investigation Title</i>	<i>School</i>	<i>Name(s)</i>
Merit	Small Group	4	How many paint-filled balloons does it take to cover a 1 m x 1 m canvas?	Fr John Therry Primary School	Pippa Casey Alex Gouskos Annabelle Silk Mackenzie Steintal Maisie Watkins
First	Individual	6	What is the best size rainwater tank for homes in Sydney?	Abbotsleigh	Veronica Sebesfi
Second	Individual	6	Juice Judge	Abbotsleigh	Calida Tang
Merit	Individual	5	How many of a particular object can fit into my bedroom?	Fr John Therry Primary School	Isabelle Leonart
Merit	Individual	6	Prime Numbers - unsolved mystery	The Hills Grammar	Clara Hong
Merit	Individual	6	How to save \$\$\$\$	Abbotsleigh	Claire Offord
Merit	Small Group	6	3, 6 ,9 . . . Find the way they rhyme	Seven Hills North Public School	Jessica Stratton Kara Whitehouse Jasmine Granados Jarad Wyton Sandeep Das
Merit	Small Group	6	Musical Mathematics	St Joseph's Primary School	Agrima Shrestha Natalia Canak Matthew Turner Ryan Suckling
First	Class	7	Mathematics of the Olympics	Kincoppal Rose Bay	7 Advance
First	Individual	7	Dynamics of Shipping	St Pius X College Chatswood	Max Enthoven
Second	Individual	7	To Bee or not to Bee?	St Columba Anglican School	Ashley Hill
Merit	Individual	7	Maths in Ballet	St Ursula's College	Jessica Hanna
Merit	Individual	7	Cooking by Numbers	St Pius X College Chatswood	Jordan Kiss
First	Small Group	7	Bows	St Pius X College Chatswood	Ira Fung Shawn Pho
Second	Small Group	7	Home time	Corrimal High School	Christine Mayo Lucy-Rose Shilling Brooke Woolmer Hayley Smith
Merit	Small Group	7	Follow the Yellow Brick Road	Corrimal High School	Brianna Dillon-Fowler Amy Walker Melinda Grobber
Merit	Small Group	7	Pump it	Corrimal High School	Lauren Humphreys Courtney Hill Georgia Hughes
Merit	Small Group	7	Fimo Jyo	Tara Anglican School for Girls	Una Cha Olivia Hacker Annabel Kensit Nina Samarozic Zhenocu Zheng
Merit	Small Group	7	Ski Trip	St Pius X College Chatswood	Timothy Yee Joy Charlie Light
Merit	Small Group	7	The consistency of Home Brand Chips	St Ursula's College	Bronte English Thalia Chandra Rachel Green Alexandra Lee
First	Class	8	The Mighty Pen	Abbotsleigh	8M1

<i>Award</i>	<i>Category</i>	<i>Year</i>	<i>Investigation Title</i>	<i>School</i>	<i>Name(s)</i>
Second	Class	8	Maths in Rowing	Tara Anglican School for Girls	Year 8 Maths 1
First	Individual	8	The Mathematics of Backgammon	Masada College	Ruth White
Merit	Individual	8	Quincunx	St Columba Anglican School	Jake Southcott
First	Small Group	8	Maths in the Xylophone	St Ursula's College	Marina Boutros Anastasia Attia
Merit	Small Group	8	Cosmetics	Kildare Catholic College	Isabella Elliott Kate Bassett Tiffany Lemech Emma Harris Simone Clarke
First	Class	9	Is this the right image?	Tara Anglican School for Girls	9MATEN
First	Individual	9	'To see or not to see that is the question—or is it'?	Hunters Hill High / Home School	Luke Shakespeare
Second	Individual	9	When has a Pointe Shoe reached its point?	Loreto Normanhurst	Joanne Cheong
Merit	Individual	9	It's only rocket science	Loreto Normanhurst	Meg McLellan
Merit	Individual	9	How much fits?	Loreto Normanhurst	Gabi Ryan
First	Small Group	9	Crazy cash crops	Loreto Normanhurst	Alex Garner Sarah Gulliver
Second	Small Group	9	Bread feeds the stomach, wheat feeds the soul	Loreto Normanhurst	Danielle Fish Megan Wyndham
Second	Small Group	9	Water Tank or no Water Tank	Loreto Normanhurst	Brigitte Rees Rebekah Moraza
First	Individual	10	How can we send 'yottabytes' across optical fibres?	North Sydney Boys' High School	Calvin Tam
Second	Individual	10	Human Wings	North Sydney Boys' High School	Huon Wilson
Merit	Individual	10	Flute under construction	St Columba Anglican School	Latasha Rosendahl
First	Small Group	10	Analysis of frequencies and amplitudes in music that form mathematical relationships	North Sydney Boys' High School	Andy Chen Stephen Ke

Do you have your own copy of these resources?

Use your Personal Membership or your School's Membership to benefit from the member discount on these MANSW publications

Problem of the Week by Peter Gould 41 rich problems with solutions and suggestions for teachers, ready to photocopy and use with your junior classes.
Members \$30.00 Non-members \$40.00

Cooperative Problem Solving in Mathematics by Peter Gould Photocopiable sets of problems designed to enable students to work cooperatively in mathematics.
Members \$30.00 Non-members \$40.00

The Case of the Mystery Bone by Doug Clarke An excellent teaching resource on measurement focusing on forensic medicine and mathematics of the human body
Members \$20.00 Non-members \$25.00

Teaching Ideas for Senior Mathematics—Book 1 Invaluable source of background, teaching approaches, and student activities for Mathematics and Extension 1 courses
Members \$20.00 Non-members \$30.00

Teaching Ideas for Senior Mathematics—Book 2 Invaluable source of background, teaching approaches, and student activities for Extension 2
Members \$20.00 Non-members \$30.00

Enrichment Maths by Anne Joshua
Designed to meet the needs of talented junior secondary students providing challenging material. Includes topics not usually covered such as pigeonhole principle, bases, congruences, and number theory
Members \$55.00 Non-members \$70.00

A source of extra practice questions for your Year 12 students

- **HSC Mathematics Practice Papers and Solutions by Mark Arnold**
Members \$30.00 Non-members \$40.00
- **HSC Mathematics—Extension 1 Practice Papers & Solutions by Mark Arnold**
Members \$30.00 Non-members \$40.00

The Motivating Maths Series: Probability by Anthony Mahoney contains more than 25 practical, fresh activities and teaching ideas for Probability. All activities are able to be photocopied for non-commercial classroom use.
Members \$55.00 Non-members \$70.00

Each of these resources is available from MANSW. Go to the MANSW Website www.mansw.nsw.edu.au and download the Publications Order Form to place your order.