



Latest events >>

For the latest events and conference information go to STAV's website:

www.stav.org.au

For information about science activities & competitions go to:

www.stav.org.au

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Conferences/Events

The STAV event calendar which includes all PD/conferences and science activities for the year is available on the STAV website: www.stav.org.au.

Science Leaders' Conference 2011

Friday 13 and Saturday 14 May. More details on page 6 and on STAV's website.

VCE Sciences Conferences 2011

Biology, Chemistry, Environmental Science and Physics – refer to page 6 for details.

Physics Workshops 2011

These popular small-group workshops will be conducted again in 2011 at STAV House. Opportunities are also available for schools, including regional areas, to conduct the workshops in-house. Refer to page 10 of this newsletter and our website for more information <http://www.sciencevictoria.com.au/otherPD.html>

Beginning Science Teachers Conference 2011

Monday 4 April. More details on page 6 and on STAV's website.

Primary and Middle Years Science Teachers Conference 2011

Tuesday 24 May 2011. More details on page 6 and on STAV's website.

Science Talent Search

Start planning now for the 2011 Science Talent Search. More information on pages 4 and 5, and on the STS website www.sciencevictoria.com.au/sts.

Free VNPA magazine offer for STAV members

See page 8.

Victorian Science and Mathematics Education Excellence Awards 2011

More information on page 8.



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Science Victoria

Science Victoria hosts professional development activities on behalf of the Science Teachers' Association of Victoria Inc. (STAV)

STAV is now an Inc.

STAV has successfully migrated from a company regulated by ASIC to an incorporated association regulated by Victoria's Department of Justice. This change was approved at the 2006 AGM. The change simplifies the laws governing STAV and reduces regulatory costs. It has no other substantial impact.

Life Members

David Cohen	Gretta Wilkinson
Rod Fawns	Don Lugg
Dick Gunstone	Mark Learmonth
Jim Stevenson	

Contact enquiries

? For enquiries about **Contact newsletter** including advertising opportunities please contact the STAV Publications Officer phone: (03) 9385 3903 or email: publications@stav.vic.edu.au

Contact newsletter is also accessible in an electronic version via email as a PDF. The electronic version is available up to 1 week earlier than the distribution of the printed copies of Contact.

If you prefer to receive Contact newsletter by email rather than the printed version please email STAV: stav@stav.vic.edu.au

President's Report



Greetings to all STAV members!

I begin with acknowledging all who have been affected by the devastating floods that have brought sorrow to many communities across our nation. Our

thoughts and prayers go to the families in Queensland, Victoria, Tasmania and Western Australia.

We ended the year with the Minister for School Education, the Hon Peter Garrett announcing the endorsement of the first ever Australian Curriculum by the Federal, State and Territory Ministers at the Ministerial Council for Education, Early Childhood Development and Youth Affairs (MCEECDYA) meeting in Canberra on Wednesday 8th December.

A summary of the MCEECDYA Resolution is below and further information can be obtained directly from the ACARA and STAV websites. Note there has been a change in the name from Kindergarten to Foundation.

Ministers endorsed the content of the Australian Curriculum: Foundation to Year 10 for English, mathematics, science and history. The Australian Curriculum is available online at www.australiancurriculum.edu.au.

Ministers agreed to a number of steps towards achieving the next stage of substantial implementation of the Australian curriculum by 2013. These will include:

- Establishing a national common approach to the achievement standards across all States and Territories, and trialling and validating that approach
- States and territories developing additional material to support effective implementation of the curriculum to accommodate their different curriculum development, approval and implementation requirements
- Further refining and adjusting the curriculum content as a result of validating achievement standards and structured feedback from teachers
- Finalizing a clear overarching framework that assures the place and integrity of all learning areas within the context of the overall school curriculum and different State and Territory structures
- Developing the curriculum content and achievement standards as required to meet the needs of special needs students
- Engaging with the teaching profession in the implementation of these processes to ensure comprehensive preparation for substantial implementation by 2013.

STAV will continue to provide opportunities for members to access resources, information and assistance in the implementation of the Australian Curriculum Science through our many professional development activities and through our publications.

2011 will be celebrating the International Year of Chemistry. Activities have been organized throughout the country and for further information visit the website of the Royal Australian Chemical Institute (<http://www.raci.org.au>)

2011 is also the 100th anniversary of the discovery of superconductivity by H. Kamerlingh Onnes and in recognition of this, there will be a special session at the 35th Annual Condensed Matter and Materials Meeting in Wagga. (<http://www.phys.unsw.edu.au/wagga11/>).

Soula Bennett

STAV President

Project Officer's Report



STAV Publishing has developed a series of activities – Adapting to Climate Change – which will be posted on STAV's website in February. These activities are free and accompany the Department of Sustainability and Environment DVD

of the same title. This DVD was enclosed in the December edition of Contact; keep it in a safe place until our activities become available. There will be more information about these activities in the March newsletter.

The Semester 1 2011 Trial Exam order form is on the STAV Publishing website (<http://www.sciencevictoria.com.au/stavpublishing/trialExams.html> or www.stav.org.au). You can order your 2011 papers any time from now until Monday 11th April. Prices are unchanged.

You can find out more about STAV Publishing products from our primary and secondary catalogues which are available in hardcopy and are also on the STAV Publishing website. Go to the Science Victoria site www.sciencevictoria.com and follow the STAV Publishing links.

Ellen Finlay

Project Officer, STAV Publishing

Phone: 9385 3999

Fax: 9386 6722

Email: projects@stav.vic.edu.au

Science Talent Search Report



The theme for 2011 Science Talent Search is 'React to Chemistry'.

Registration opens on Monday 7 March and the closing date is Friday 27 May. Topics for Creative Writing and Posters are on the website: www.sciencevictoria.com.au/sts.

The Public Judging Day is Saturday 13 August and Exhibition and Presentation Day is Wednesday 2 November. All entry is by online registration. Instructions for online entry are on the STAV website www.stav.vic.edu.au/home/studentactivities.sts.

The 2011 Handbook is available in hardcopy from early February and is included in this edition of Contact for all individual members and school subscribers; there is also an online version on the STS section of the STAV website. Schools who entered the competition in 2010 will also receive a copy in the mail.

Please read the handbook carefully even if you have entered the competition for many years. Each year changes are made to some competition rules or section guidelines and your students may be disadvantaged if you haven't kept yourself up to date with changes.

The partnership between Science Talent Search and BHP Billiton which enabled students who won major bursaries for Experimental Research to enter their project into the National BHP Billiton Science Award will continue in 2011. Students who wish to enter the BHP Billiton Science Award will need to enter through STS. More information is on the website <http://scienceawards.bhpbilliton.com>.

Teachers who have not entered their students in STS before and are looking for ideas to get started should contact Ellen Finlay at STAV. There is a PD resource available or it may be possible to arrange a school visit.

Teachers who are looking for a resource to inspire students for an STS project related to the theme may like to consider an excursion to Ecolinc at Bacchus Marsh. Some of the topics offered are:

Environmental Indicators. Use chemical and biological indicators to determine the quality of the Ecolinc wetland.

Extracting plant pigments. Use thin layer chromatography to separate and identify a variety of plant pigments.

Soil chemistry. Explore the Ecolinc geological trail and measure a number of soil properties including colour, dispersion, texture, pH and electrical conductivity to distinguish a range of soil types.

As always, the STS committee needs new members for 2011 to replace those who are retiring. There are 6 committee meetings each year, plus Judging day in August and Presentation day at the beginning of November. If you would like to join us and contribute to the running of STS please contact Ellen Finlay at STAV: Phone 9385 3999; email: education@stav.vic.edu.au

Leonie Lang

STS Co-Director

STS Sponsors

Would your organisation like to become an STS sponsor? As well as supporting science education and young scientists, there are other benefits for sponsors. Visit our website: www.sciencevictoria.com.au/sts/sponsor.html

Science Drama Awards Report



Welcome to the new school year. Now that we are back in the classroom, you may be looking for new ways to reinvigorate your teaching of Science. Have you considered Science Drama? To find out what our competition involves, we will be offering a workshop in March. Details will be emailed to Science co-ordinators at all member schools.

Key dates 2011

Wednesday 27 April	Entry forms due
Tuesday 3 May	Entry information kits sent upon receipt of entry forms
Monday 8 August	DVD entries due
Sunday 14 August	Preliminary Judging Day
Wednesday 17 August	Finalists Kits sent
Friday 9 September	Finals Performance & Awards night Venue: McMillan Hall, Canterbury Girls' College, Mangarra Rd, Canterbury.

Competition details and forms are available on the STAV website.

Jan Campione

Director

Science Drama Awards

Science Talent Search 2011



2011 Theme: React to Chemistry

Online registration opens 7 March

Judging Day: Saturday 13 August.

Exhibition and Presentation Day: Wednesday 2 November 2011.

Check the Science Talent Search website for information about the competition
www.sciencevictoria.com.au/sts



The Department of Education and Early Childhood Development is proud to be the major sponsor for the Science Talent Search.

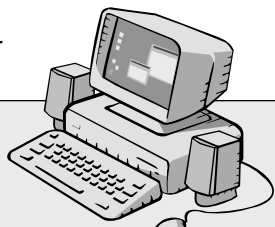
Science Drama Awards 2011

Entry forms due: 27 April

DVD entries due: 8 August

Preliminary judging: 14 August

Finals performance: 9 September



Do you know?

You can download back issues of *Contact* from the STAV website? For past editions, go to <http://www.stav.org.au/html/journalsNewsletter.html>

Do you also know?

STAV has a science education links page on our website. There are links to various sites for biology, chemistry, physics, psychology, general science, government departments, other subject associations and more... Go to <http://www.stav.org.au/html/scienceLinks.html>

Have a browse

Browse our website to see what information is available to you – you'll find information about conferences and workshops, trial exams, science education resources, membership, our journals and newsletters, Science Talent Search, science events run by other organisations, Science Drama Awards and other student activities, National Science Week, Laboratory Technicians group (LabTech) and much more. Go to <http://www.stav.org.au>

The Science Teachers' Association of Victoria Inc. (STAV) has a new ABN 59 004 145 329

New Members

Welcome to the following new individual members of STAV

Nik Bagshaw	Mark McTier
Karin Blain	Michael Opray
Scott Blencowe	Raellie Patterson
Marijana Bosnjak	Adriano Rocchiccioli
Tim Curmi	Sujit Sen Gupta
Chris Egan	Phina Tran
Vicki Field	Primrose Tyson
Laura Fisher	Dirk Walters
Kathryn Graham	

STAV Membership 2011

STAV Individual Membership fees:

Individual Primary	\$125
Individual Secondary	\$140
Individual both Primary/Secondary	\$175
Laboratory Technicians	\$105

The subscription of a member ceases to be effective if payment is not received prior to or on the date of renewal, as a result, membership and all rights pertaining thereto will lapse. Upon payment of all arrears, membership will resume from the date of payment.

How to join STAV

Download a form from our website
www.stav.org.au/html/membership.html

You can also join online from this site.

Alternatively, contact the STAV office for more information: 03 9385 3999

Labtech list

The Labtech list has been set up by STAV as a discussion forum where Laboratory Technicians can exchange information, share ideas and seek advice.

We ask science co-ordinators to encourage their Laboratory Technicians to become a member of Labtech and participate in the discussion group.

It is free to join. Go to the Science Victoria website for more information:

www.sciencevictoria.com.au/labtech.html



Upcoming Conferences – dates & rates

For all conference/PD information including programs and online registration check the Science Victoria website approximately 6 - 8 weeks prior to each conference:

www.sciencevictoria.com.au/conferences.html

These programs can also be found on the VIT Pdi search engine – all listed programs reference the standards of professional practice for renewal of VIT registration www.vit.pdi.vic.edu.au

VCE Conference Series 2011

Physics – Friday 18 February 2011

Conference rates - day rates

STAV member\$160

Non STAV member\$295

Student / Retired teacher \$78

Conference rates - evening rates

STAV member \$86

Non STAV member\$106

Biology – Monday 21 February 2011

Conference rates

STAV member\$160

Non STAV member\$295

Student / Retired teacher \$78

Environmental Science – Monday 21 February 2011

Conference rates

STAV member \$70

Non STAV member\$100

Chemistry – Friday 25 February 2011

Conference rates

STAV member\$160

Non STAV member\$295

Student / Retired teacher \$78

Psychology – 2011 dates and rates TBA

Physics Workshops

Suitable for teachers of years 5-10 science:

Newton's Laws of Motion – 1 April and 14 October 2011

Electricity – 11 March and 11 November 2011

More information and registration details at www.sciencevictoria.com.au/otherPD.html

Beginning Science Teachers Conference

2011 – Monday 4 April 2011 at Darebin Arts & Entertainment Centre, rates TBA

Science Leaders Conference 2011

Friday 13 and Saturday 14 May 2011 at The Sebel Heritage, Heritage Avenue, Chirnside Park

Theme: *Developing Leadership*

Primary and Middle Years Science

Teachers Conference 2011 – Tuesday 24 May 2011 at Darebin Arts & Entertainment Centre, rates TBA

STAVCON 2011 – Monday 28 and Tuesday 29 November 2011.

Contact the STAV business centre: Phone: 9385 3999 or email: stav@stav.vic.edu.au

Teacher effectiveness the key: not class sizes

Media Release from the Grattan Institute, 15th November 2010

“Measures to improve teacher effectiveness will deliver better value for our children’s learning outcomes, improve Australia’s economic productivity and be a better use of public funds than reducing class sizes,” Dr Ben Jensen, the Education Program Director of Grattan Institute said today on the release of a report entitled Investing in Our Teachers, Investing in Our Economy. http://www.grattan.edu.au/pub_page/057_report_investing_teachers.html

“Improving teacher effectiveness benefits our children. Young people who stay in school longer can expect to earn an additional 8-10% per year for each additional year of education they undertake. A 10% improvement in teacher effectiveness would improve student performance and productivity, increasing Australia’s GDP by \$90 billion by 2050.”

The drive to reduce class sizes, whilst well intentioned and politically popular, is found to be without impact in producing better education outcomes for students. Studies around the world have shown that class size reductions do not significantly improve schooling and student outcomes. For example, recent evidence from Florida shows that policies reducing average class size by about 2.5-3 students had no impact on improved schooling, but cost over \$1 million dollars per school per year. We need to spend our education dollar where

it will have the most impact and where it matters: on our children’s future.

Parents have a clear desire to provide the best for their children. Teacher effectiveness is the key: not class sizes. This is the best policy lever for improving schooling for students and giving parents what they want. It will provide more bang for our education buck. Australia increased its education expenditure by 41% between 1995 and 2006. However, between 2000 and 2006, Australian student performance stagnated in mathematics and significantly declined in reading. Our current public funding targets are misguided and links to improvements non-existent.

Teacher effectiveness should be measured in a variety of ways. These include: student progress and student outcome measures, student feedback, teamwork and peer evaluation, classroom observation from senior teachers and the school principal, self-evaluation, teacher development and improvement.

This report does not point the finger at teachers. On the contrary, this report argues for improved investments in teacher effectiveness. This will have the greatest benefit for our students and is the most effective method to make Australia’s school education the best in the world.

DEECD 2011 Professional Learning

Switched on Secondary Science Professional Learning Program

Southern Metropolitan Region: Thursday 17 and Friday 18 February; Monday 21 March.

Loddon Mallee Region: Wednesday 2 and Thursday 3 March; Thursday 31 March

Gippsland Region: Tuesday 15 and Wednesday 16 March; Thursday 7 April.

For more details and to register please contact your DEECD Regional Office.

Science Scholarships: Earthwatch TeachLive Research Expeditions

These will be advertised via school circular in Term 1, 2011.

Concept cartoons in science education

This is a 200 page blackline masters book consisting of science concept cartoons covering topics such as:

- ecology
- materials
- electricity and magnetism
- forces and motion
- light
- sound
- the Earth and beyond
- energy resources
- energy transfer



20% off during February and March

The cartoons can be used at primary and secondary levels. They are supported by teacher notes which include concise explanations of each concept as well as suggested strategies on how to use them effectively. The materials can be copied for educational purposes by the purchaser.

\$80 (Inc. GST) STAV Individual members

\$92 (inc GST) School subscribers/Non-members

Postage and handling \$8.00

For enquiries contact: **Ellen Finlay**

(03) 9385 3999 or

email projects@stav.vic.edu.au





Department of Education and
Early Childhood Development

Call for nominations

Victorian Science and Mathematics Education Excellence Awards 2011

The Victorian Science and Mathematics Education Excellence Awards recognise innovative partnerships between government schools and industry that support science and mathematics education.

Grants of \$10,000 will be presented to one school in each of Victoria's nine government school regions best able to demonstrate:

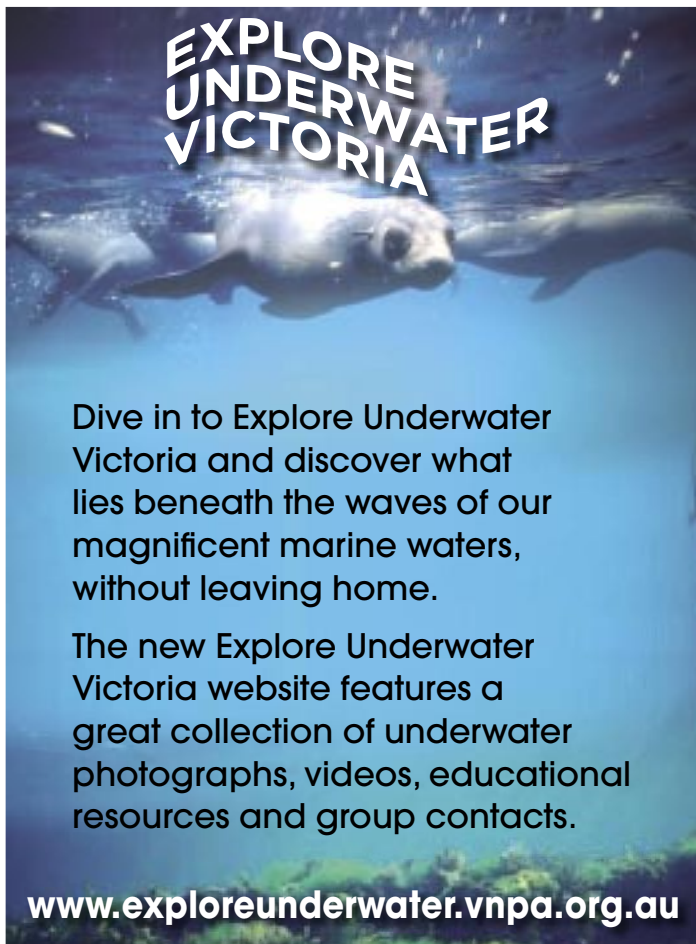
- A partnership with a business, industry, environmental group, community organisation, TAFE or University that enhances science and mathematics education;
- An innovative and contemporary approach to science and mathematics curriculum that leads to increased student engagement;
- Enhanced student awareness of the applications of science and/or mathematics and knowledge of career pathways.

From the nine regional winners, an additional \$10,000 will be awarded to an overall State Excellence Award Winner.

Nominations close Friday 13 May 2011.



For guidelines and an application form visit: www.education.vic.gov.au/about/events/vsmea
For enquiries contact Helen Spargo at: spargo.helen.h@edumail.vic.gov.au



EXPLORE UNDERWATER VICTORIA

Dive in to Explore Underwater Victoria and discover what lies beneath the waves of our magnificent marine waters, without leaving home.

The new Explore Underwater Victoria website features a great collection of underwater photographs, videos, educational resources and group contacts.

www.exploreunderwater.vnpa.org.au

FREE magazine offer for STAV members!

For a limited time only the Victorian National Parks Association is offering STAV members a free copy of the latest issue of its full-colour quarterly journal Park Watch, which usually costs non-members \$7.



Park Watch keeps readers up-to-date with issues facing Victoria's national parks and biodiversity through articles written by experts.

For your free copy simply phone the VNPA on 03 9347 5188 or email vnpa@vnpa.org.au.

Join Victoria's leading nature conservation and bushwalking group today!

Join the VNPA today and receive member benefits including:

- Magazine and newsletters keeping you up-to-date with nature conservation issues.
- Bushwalking & conservation activities, including camping and tree planting.
- Under 35s program.
- Discounts at outdoor gear shops.

CONTACT US

Phone: 03 9347 5188

Email: vnpa@vnpa.org.au

Web: www.vnpa.org.au





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As an agent/referrer for a number of insurance companies, we can cater for your insurance needs.

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- Income protection
- Contents/Valuable Items
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- Health
- Bills

Quotes and policies can be arranged by calling **1300 654 166** or visiting www.victeach.com.au.



CGU Insurance Limited (CGU) ABN 27 004 478 371 AFSL 238 291, Allianz Australia Insurance Limited (Allianz) ABN 15 000 122 850 AFSL 234 708, Australian Unity Health Limited ABN 13 078 722 568, Zurich Australia Limited ABN 92 000 010 195 AFSL 232 510, Swann Insurance Australia Pty Ltd AFSL 238 292 ABN 80 000 886 680, ETI Australia trading as Mondial Assistance AFSL 245 631 ABN 52 097 277 177 are the insurance providers. In providing this insurance Victoria Teachers Credit Union AFSL/ACL 240 960 ABN 44 087 651 769 acts as an agent for the insurers, not as your agent. A Product Disclosure Statement should be considered before acquiring a product and can be requested by calling 1300 654 166. We receive commission on these insurance products as a percentage of the premium price for each policy ranging from 5-35%.

IMMUKNOW

Teaching resource for Unit 3 Biology immunology concepts

Are your students confusing APCs, B-cells and T-cells?

ImmuKNOW is your solution!

ImmuKNOW is an easy to use visual teaching resource with movable immune cell representations for use on whiteboards. Each component has a magnetic strip which allows it to be attached to magnetic whiteboards or any other flat steel surface.

ImmuKNOW is colourful, engaging and clearly visible. It allows easy visualization of receptor/cell interactions such as T-cell receptors and MHCs. It can be used by both teachers and students.

ImmuKNOW consists of 3 separate kits:

- Kit 1 Immunity to infection
- Kit 2 Allergy and allergic reactions
- Kit 3 Humoral immunity

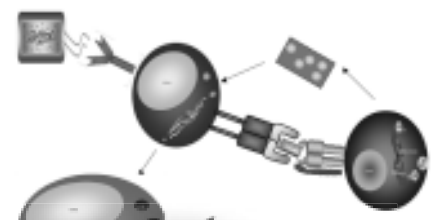
Each kit is accompanied by an instruction booklet.

Price

- Member \$90 (includes GST); postage & handling \$8
- Non member \$95 (includes GST); postage & handling \$8

How to order

- Fax, post or email purchase order to: STAV Publishing
- Fax: 9386 6722 PO Box 109, Coburg VIC 3058
- Email: projects@stav.vic.edu.au
- Enquiries: 03 9385 3999



**ImmuKNOW
images available
on CD**

All of the images used for the three ImmuKNOW kits are now available for purchase on CD. Go to www.sciencevictoria.com.au/stavpublishing/immuknow.html

**20% off during
February and March**



ImmuKNOW kits were developed and previously distributed by SYNERGYA Young Achievement Australia program.

STAV Physics Workshops 2011

These workshops are intended for teachers of years 5-10 science who wish to develop their own conceptual understanding; the concepts are presented at the level of year 9 – 11 students.

Registration information: Go to <http://www.sciencevictoria.com.au/otherPD.html>

Workshop 1

Interactions: Making sense of Newton's laws of motion

Newton's Laws of Motion epitomise the essence of physics: three simple axioms that together account for all the mechanical interactions in our experiential world, and yield elegant mathematical predictions. Yet for many people they also represent everything that is most impenetrable and abstract in physics. In this workshop we will look for the meaning behind the archaic expressions of these laws, and explore their ramifications for understanding everyday experiences such as skateboard riding and trampoline jumps.

What previous participants have said:

- Gave a great opportunity to get answers to questions to ensure clarity on the topic.
- Very interactive.
- Very useful session – great activities to use with students. Christine really helped us to understand the major concepts in forces and how to pass this on to our students.
- Great forum for discussion of queries/concepts.
- My understanding of forces has improved considerably.
- It helped 'smooth out' my understanding of Newton's Laws.
Also will use some ideas more often in the future and not confuse students with the jargon.

This workshop will be offered twice in 2011: Friday 1 April and Friday 14 October.

Time: 9.00am – 4.00pm

Venue: STAV House, 5 Munro Street, Coburg

Presenter: Christina Hart



Workshop 2

Modelling electricity: from batteries to power stations

Students enjoy setting up electric circuits, but even simple circuits can raise curly conceptual questions. If teachers are apprehensive about such questions, they may resort to teaching equations that obscure the fascination and relevance of electricity in students' lives. In this workshop we will explore some models that allow us to interpret what is happening and make simple predictions without using equations. The journey takes us from batteries to the state power-supply system.

What previous participants have said:

- Greatly increased my knowledge of this topic
- Well explained; willing to stop and explain when people couldn't understand. Hands-on activities to break up discussion.
- Excellent, a thoroughly enjoyable day. I feel that I learnt a lot from the day.
- Christina was fabulous!
- Excellent, small group questions and interactions.
- It was excellent. Lots of activities to explain concepts – I particularly liked the smartie activities.

This workshop will be offered twice in 2011: Friday 11 March and Friday 11 November

Time: 9.00am – 4.00pm

Venue: STAV House, 5 Munro Street, Coburg

Presenter: Christina Hart



Semester One @ Scienceworks

New Programs:

Measure Island

Until 1 May 2011

There is a lot more to measuring than you think. Measure Island is set in a fictional land, themed around a long lost civilisation. See why some of our measurement systems exist, what makes a good measurement and examine some of the measurement systems that scientists use.

Developed by Questacon – The National Science and Technology Centre, Canberra

Ideal maths/science excursion for Years 3 – 8.

Related classroom and exhibition based activities available at: museumvictoria.com.au/education

Book 8.30am to 4.30pm weekdays on 9392 4819

Amazing Backyard Adventures

26 March – 24 July 2011

Visitors will be amazed at the science they can find in their own backyards. Students will be able to observe science in a relatable context as they are encouraged to appreciate such things as the biodiversity of their gardens, the mechanics of play equipment and the physics of the tool shed.

Developed by Scitech, Perth

Suitable for middle and lower primary school audiences.



Maths Programs

Explore maths through hands-on activities. Scienceworks has developed a range of maths programs that are available for 2011. Programs include *Sporty Maths*, *Measurement and Technology – using Data-loggers* and *Problem Solving*.

Also available in Term One only:

Robot Reboot, a hands-on interactive workshop suitable for students in Years 5 – 8.

For more details on our Planetarium and Lightning Room programs visit our website: museumvictoria.com.au/education

2 Booker Street Spotswood
museumvictoria.com.au/education



SCIENCEWORKS



Science Coordinators' Handbook

This handbook contains ideas, strategies and information relevant to leading and managing your science faculty. Suitable for inexperienced, experienced and aspiring coordinators. Includes a CD-Rom containing useful templates, samples and other tools.



Cost

\$33 Members
\$44 Subscribers/non-members

For further information contact

STAV Publishing
Ph: (03) 9385 3999 or
Email: projects@stav.vic.edu.au



Beginning Science Teachers' Handbook

The handbook contains ideas, information and advice on how to cope whilst at the same time improving your teaching and professional performance.

What does it cost?

\$25 incl. GST Members
\$35 incl. GST Non members
plus Postage & handling \$8.00

The content includes:

- Learning the Science Faculty Ropes
- Classroom Management
- Teaching Classes of Mixed Abilities/ Individual Differences
- Engaging and Extending Students in your Science Class
- Professional Conduct and Standards of Practice
- Science Safety
- Getting Involved with your Professional Association
- Getting the Best out of Extension Education
- Developing a Science Assessment Toolbox
- eLearning and Science
- Resources and Websites List.

How to order:

Fax a purchase order to:
STAV Publishing Fax: 9386 6722

For Enquiries phone: 9385 3999



Doing your bit to help Clean Up Australia

The recent floods have devastated the nation – but they have also revealed the strength of Australia's community spirit, with thousands of volunteers lending a hand. Clean Up Australia Day – Australia's largest community participation event – reflects this great tradition of volunteering in Australia. Thousands of volunteers have already registered for Clean Up Australia Day 2011, to do their bit for the environment on Sunday 6 March (**Schools Clean Up Day – Friday 4 March**). Celebrating its 21st year, Clean Up Australia Day has shown Australian's willingness to get their hands dirty in times of need in order to create a cleaner, healthier environment for future generations.

Event organisers are expecting to attract hundreds of thousands of volunteers nationwide. 2010 saw 588,000 volunteers remove an estimated 15,560 tonnes of rubbish from 7,073 sites. With an ongoing need for Australians to rally together and make a real difference 2011 looks to be the year in which even more people take to their streets, parks, waterways and beaches.

Research from the Australian Bureau of Statistics states that 35% of Australians aged 18 and over volunteer at least once a fortnight. Collectively they donate over 700 million hours of work a year.

“Every day volunteers make a huge contribution to society in both economic and social terms,” said Ian Kiernan AO, Chairman of Clean Up Australia. “Without volunteers, we'd be lost. In recent weeks, we have seen thousands of people armed with gloves and bags join forces as south east Queensland faces their massive flood clean up. I predict we'll see the same response in Victoria and northern New South Wales. For those of us not in a position to join these bands – it's our turn to pitch in and clean up areas in our own local community. Now more than ever volunteers are needed to help restore the health of our environment.”

Over its 21 year history volunteers have transformed the nation on Clean Up Australia Day. In total, they have devoted more than 24 million hours to help the environment by removing over 237,500 tonnes of rubbish. You can take action now by registering at www.cleanupaustaliaday.org.au.

CLEAN UP AUSTRALIA DAY 2011

WHAT:

Australia's largest community participation event. Get a group together and register your chosen Clean Up Site online.

WHEN:

Clean Up Australia Day – Sunday 6 March
Business Clean Up Day – Tuesday 1 March
Schools Clean Up Day – Friday 4 March

WHERE:

Your local park, waterway, bus area beach or street.

WHO:

Everyone is welcome – friends, family, kids, community groups, work colleagues or anyone else.

HOW:

Register for Clean Up Australia Day now at www.cleanupaustaliaday.org.au or call 1800 CUA DAY for more information.

[Source: Media release Wednesday, 19 January 2011]





World's Greatest Shave: Support needed for cancer care and research

The Leukaemia Foundation is asking Victorians to register for the World's Greatest Shave to help raise money for patients and families living with leukaemia, lymphoma and myeloma.

Blood cancer is Australia's second biggest cancer killer. This is why the Leukaemia Foundation needs your help to raise over \$3.29 million in Victoria to help fund free support services and research into the causes, treatments and cures of blood cancer.

WHEN: 10 - 12 March 2011

WHY: Every hour of every day one person in Australia is diagnosed with leukaemia, lymphoma or myeloma and every two hours, someone loses their life to these diseases. The World's Greatest Shave helps to raise vital funds to ensure the Leukaemia Foundation can improve patients' quality of life through personalised and practical care, whilst funding cutting edge research.

To help fund the work of the Leukaemia Foundation 'Be Brave and Shave' and register for the World's Greatest Shave today. Participants are encouraged to shave or colour their hair and fundraise for their efforts.

HOW: To register to participate call 1800 500 008 or visit www.worldsgreatestshave.com



STAV Council meeting dates

15 March	9 August
12 April	13 September
17 May	18 October
26 July	22 November Dinner

Meetings will be held at STAV House commencing at 5.00pm

Science Teachers' Association of Victoria Inc.

'Advancing Science Education'

STAV Goals

- ◆ Establish and maintain both financial and intellectual independence
- ◆ Represent the collective voice of science educators in Victoria
- ◆ Influence policy formulation in matters relating to Science Education
- ◆ Support and maintain regional special interest groups within STAV
- ◆ Provide a range of resources and services to support science educators
- ◆ Provide for and encourage student participation in a range of challenging science activities
- ◆ Promote the importance of Science Education to the community
- ◆ Recognise significant contributions by STAV members to Science Education.

Contact Deadlines

Contact deadlines 2011

March	14 February 2011
April	17 March 2011
May	15 April 2011
June	16 May 2011
July	17 June 2011
August	15 July 2011
September	16 August 2011
October	14 September 2011
November	14 October 2011
December	15 November 2011

Contact Newsletter

Registered by Australia Post • Print Post publication No. PP 342676/0050

Printed by: Allanby Press Printers, 1 Crescent Rd, Camberwell VIC 3124

Mailhouse: Mercury Mailing, 13 Antibes Street, Parkdale VIC 3195

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