



## Latest events >>

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

[www.stav.org.au](http://www.stav.org.au)

For information about science activities & competitions go to:

[www.stav.org.au](http://www.stav.org.au)

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## Conferences/Events

**The STAV 2009 event calendar** which includes all PD/conferences and science activities for the year is available on the website: [www.stav.org.au](http://www.stav.org.au)

### Science Talent Search 2009

Creative Writing, Experimental Research and country entries due by Friday 24 July.

**See page 5 for competition dates.**

For further information go to:

[www.sciencevictoria.com.au/sts/index.html](http://www.sciencevictoria.com.au/sts/index.html)

### VCE Psychology conference 2009

Tuesday 21 July 2009 at the Darebin Arts & Entertainment Centre, Preston. The conference theme is "Getting Ready for 2010 – the new Study Design." Sessions will focus on the most recent information about the study design for units 1-4, ideas about relevant content, activities and assessment ideas to support the new areas of study.

### ICT in Science Conference

Friday 28 August 2009

Program is enclosed with this newsletter, or download a copy from our website.

[www.sciencevictoria.com.au/stavpublishing/ictConference.html](http://www.sciencevictoria.com.au/stavpublishing/ictConference.html)

### STAVCON Call for Sessions

26 - 27 November at La Trobe University, Bundoora.

Call for sessions is open. Go to [www.sciencevictoria.com.au/gateway/General\\_Papers.php](http://www.sciencevictoria.com.au/gateway/General_Papers.php) or follow the menu links for presenters from Conferences/PD on the Science Victoria site.

### Physics Workshops

Laws of motion and electricity.

See page 8 for more information.



## STAV Contacts

### 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.

### STAV Council

#### Soula Bennett

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### Beginning Science Teachers' Network

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#### Ellen Finlay

STS Project Officer

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Ken Mappin  
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Gretta Wilkinson  
Don Lugg  
Mark Learmonth

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### Science Victoria

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

## 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](mailto: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](mailto:stav@stav.vic.edu.au)

## President's Report



There is no President Report for this edition as Soula is currently in Nevada, USA, attending the International Science and Engineering Fair (ISEF) along with David Trotter from CSIRO and the student winners of the National BHP Billiton Science Awards for 2009. Science Talent Search partners the BHP Billiton Science Awards and major bursary winners from our Experimental Research section gain automatic entry into the Awards each year. We will hear more from Soula about ISEF on her return.

**New website address for STAV**  
**Stav has a new website address.**

To visit the new site go to:  
[www.stav.org.au](http://www.stav.org.au)



## Project Officer's Report



The ICT conference program is available and a copy is enclosed. You can also find the program on the STAV Publishing website (<http://www.sciencevictoria.com.au/stavpublishing/ictConference.html>). The conference is limited to 150 participants. For the past four years this number has been exceeded and people have missed out on a place. Register now to secure your spot and ensure your choice of workshops.

Any displayers who are interested in coming to the ICT conference can obtain a form from the STAV Publishing website (see address above). Space for displayers is also limited, so I suggest you book your spot early.

It's time to start thinking about semester 2 VCE trial exam orders. An order form is available on the STAV Publishing website (<http://www.sciencevictoria.com.au/stavpublishing/>). Please try to order by the due date to assist us to ensure there is enough stock. Student numbers don't vary much, if any, as the exam dates get closer, so there seems little reason to wait until the last minute to order. If you are ordering Physics Unit 2 please remember to tell us which detailed study you require so that we can insert the appropriate one for your school.

Ellen Finlay

Project Officer, STAV Publishing

Phone: 9385 3999

Fax: 9386 6722

Email: [projects@stav.vic.edu.au](mailto:projects@stav.vic.edu.au)

### Revision seminars for students in bushfire affected regions

STAV, in partnership with VCAA, recently conducted a series of revision seminars for Unit 3 VCE sciences – Biology, Chemistry, Physics, Psychology and Environmental Science – in regions affected by the bushfires. The seminars were held at a series of venues over two weekends, and from reports received from people attending on the day they were well received. Thank you to the presenters and writers who contributed to the success of the seminars.

# Science Talent Search Report



Online registration and the checking process are complete. Please ensure that you keep a close eye on your email as we will be corresponding with you by email where possible.

You will receive confirmation of your entries along with face sheets and entry labels for judging on Monday 22 June. These need to be filled in, signed and attached to each project prior to submission. You will be invoiced on the data in the system on the final closing date 29 May. You cannot withdraw entries after this date – if you choose not to submit, you still need to pay the entry fee.

However, there are still several weeks before entries need to be finished, so students still have time to complete their projects. For those who have based their research on this year's theme, the resource book "Astronomy – Science without limits", which recently arrived in schools in preparation for National Science Week, could provide needed references and ideas.

Leonie Lang

STS Co-Director

## Labtech Newsletter

The second newsletter for the Laboratory Technicians group of STAV was distributed to our Labtech members in early May. If you would like a copy send an email to [projects@stav.vic.edu.au](mailto:projects@stav.vic.edu.au). We are continuing to seek input into this publication. If you have an issue or activity you feel may be of interest to this group please send it to [projects@stav.vic.edu.au](mailto:projects@stav.vic.edu.au). All contributions are welcome, big or small.

# SPACE • 2009



**Exclusive offer to Victorian schools**

In Term 3, 2009, the *Herald Sun's Learn Resources Unit* will publish a 12-part *Space* magazine series exclusively for Victorian schools.

To celebrate the 40th anniversary of man's landing on the moon and the International Year of Astronomy, experienced primary and secondary teachers have developed a new education resource. The resource spans levels 3-6 of the Victorian Essential Learning Standards covering science, English, ICT and mathematics.

## HURRY

Orders for the *Space: 2009* kit close June 12, 2009.

Visit [www.news.com.au/heraldsun/learn/](http://www.news.com.au/heraldsun/learn/) for more information.



**ONLY \$50**

## DO YOU KNOW ABOUT SCIENCE AT SWINBURNE?

Swinburne's industry-focused science degrees are supported by leading research undertaken at the university's research centres – making each degree relevant and cutting-edge. Students can choose a career path from a range of science streams including Astronomy, Supercomputing, Biotechnology, Psychology and Environmental Sustainability.

*Swinburne is proud to be a major sponsor of the 2009 Science Talent Search.*

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## Science Talent Search 2009



### 2009 Theme:

#### Astronomy: Science without limits

Check the Science Talent Search website for information about the competition  
[www.sciencevictoria.com.au/sts.html](http://www.sciencevictoria.com.au/sts.html)

### Judging Day:

Saturday 8th August 2009

### Exhibition & Presentation Day:

Wednesday 4th November 2009

### Important dates 2009:

**Friday 29 May - Online registration of entries closed**

Monday 22 June - School Pack 1 sent to schools

**Thursday 23 and Friday 24 July - Actual entries to STAV (Creative writing, Experimental Research and Country Entries)**

**Saturday 8 August - Judging Day**

Monday 31 August - School Pack 2 sent to schools

Monday 5 October - School Pack 3 sent to schools

**Wednesday 4 November - Exhibition and Presentation Day**



Department of Education and Early Childhood Development

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

## National Science Week



2009 Theme:

*Astronomy: Science without limits*

**Dates: 15 - 23 August**

For more information about National Science Week go to:

<http://www.stav.org.au/html/studentActivities.html>

or the National Science Week website:

[www.scienceweek.info.au/schools/](http://www.scienceweek.info.au/schools/)

## International Year of Astronomy 2009

For information about events go to:

<http://iya.aao.gov.au/astronomy2009>

## Science Drama Awards

For information go to: [www.sciencevictoria.com.au](http://www.sciencevictoria.com.au) and click on Science Drama Awards

## New Members

Welcome to the following new individual members of STAV

Manmeet Kaur Ahuja

Stephen Manitta

Tobias Benn

Marco Marchant

Jennifer Humphreys

Leonie Millar

Catherine Jackson

Ursula Murphy

Carina Jansen

Damian Smith

Kalli Koniaras

## STAV Membership 2009

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](http://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](http://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](http://www.sciencevictoria.com.au/conferences.html)

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

## VCE Conference Series 2009

21 July 2009 – Psychology at Darebin Arts & Entertainment Centre

### Conference rates

#### VCE Psychology

STAV Individual members .....\$140  
STAV school subscribers/non-members .....\$230  
Retired teachers ..... \$75

## ICT in science conference

**28th August 2009** at Northcote High School

Theme: *ICT: Science without limits...*

### Conference rates

STAV individual members.....\$120  
STAV school subscribers/non members .....\$200

The program is enclosed with this newsletter. Alternatively, download a copy from our website [www.sciencevictoria.com.au/conferences.html](http://www.sciencevictoria.com.au/conferences.html)

## STAVCON 2009

**26 - 27 November 2009** at La Trobe University.

Theme: *Into the Future*

## VCE Conference Series 2010

Physics – Friday 5 February at Monash University, Clayton

Chemistry – Friday 12 February at La Trobe University, Bundoora

Biology and Environmental Science  
– Friday 19 February at La Trobe University, Bundoora

## Beginning Science Teachers Conference 2010

**22 March 2010** at Darebin Arts and Entertainment Centre.

*Further information TBA.*

## Primary Science Teachers Conference 2010

*Further information TBA.*

## Science Co-ordinators Conference

This bi-annual conference will be held in 2010.

*Further information TBA.*

**Exhibitors**  
• **ICT in Science Conference**  
[www.sciencevictoria.com.au/conferences.html](http://www.sciencevictoria.com.au/conferences.html)

**Call for sessions:**  
• **STAVCON 2009**  
[www.sciencevictoria.com.au/conferences.html](http://www.sciencevictoria.com.au/conferences.html)

**Contact the STAV business centre: Phone: 9385 3999 or email: [stav@stav.vic.edu.au](mailto:stav@stav.vic.edu.au)**

# ENGINEER A SUSTAINABLE FUTURE

## Sustainable Energy Park Open Day

Celebrate World Environment Day by exploring the RMIT Sustainable Energy Park.

Learn about current research, education and careers in sustainable engineering and how it is:

- Developing sustainable energy technologies
- Solving water supply problems through solar desalination
- Designing green cars that use solar electricity and hydrogen

Experience first hand how RMIT and its students are developing sustainable solutions - including the Formula Hydrogen Racing car and Formula SAE Electric Racing car.

> **Visit the Sustainable Energy Park 10.00am to 1.00 pm**

**Saturday 6 June.**

**Introductory talk commences at 10.00 am**

**Guided tours commence at 11.00 am**

**RMIT Bundoora campus east  
Corner Plenty Road  
and McKimmies Lane, Bundoora**

[www.rmit.edu.au/aero-mech](http://www.rmit.edu.au/aero-mech)



S1289

New

## Science Circles Books 1 and 2

These exciting new books were produced by STAV Publishing and Blake Education.

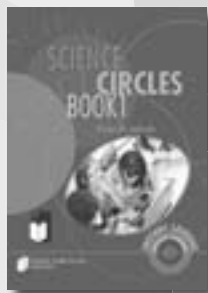
Science circles contains a wide range of classroom activities designed to engage students in extensive discussion while exploring science topics. The *Science circles* approach is developed from the concept that understanding is discourse-based. Scientific literacy is built when students can practise using correct terminology to give explanations and construct arguments based on evidence.

### Book 1

**Suitable for years 7 & 8**

#### Contents:

- The nature of science – Using science
- Biology – Classifying living things
- Biology – Units of life
- Chemistry – Units of matter
- Chemistry – Out of the mix
- Earth science – Cracked egg
- Physics – Looking at light
- Physics – Electric circuits
- Environment – Future energy supplies
- Astronomy – Earth, Moon and Sun
- Planning and self-evaluation

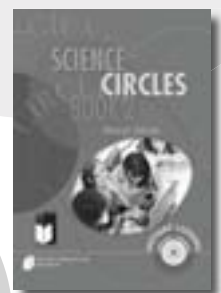


### Book 2

**Suitable for years 7 & 8**

#### Contents:

- The nature of science – Working scientifically
- Biology – Body works
- Biology – Living plants
- Chemistry – Make mine metal
- Chemistry – Chemicals reacting
- Earth science – The Earth's top layer
- Physics – About heat
- Physics – Using machines
- Environment – Ecosystems
- Astronomy – Our solar system
- Planning and self-evaluation



**\$37.95 Members/subscribers \$39.95 Non-members per book**

**For more information and sample activity pages go to [www.stav.org.au](http://www.stav.org.au) and click on Publications and Resources.**

# Physics workshops

**STAV is offering two physics workshops for teachers of middle years 5 – 8.**

## Workshop 1

### Interactions: Making sense of Newton's laws of motion

#### Workshop outline

Newton's Laws of Motion epitomise the essence of physics: three simple statements 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.

**Venue:** STAV House, 5 Munro Street, Coburg

**Duration:** 1 day

**Date:** Friday 24 July

**Time:** 9.00am – 4.30pm

#### Registration fee:

STAV Individual members/Subscribers: \$100

Non-members: \$120

## Workshop 2

### Modelling electricity: from batteries to power stations

#### Workshop outline

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.

**Venue:** STAV House, 5 Munro Street, Coburg

**Duration:** 3 x 2.5 hour sessions

**Dates:** Monday 3 August, Monday 17 August and Monday 31 August

**Time:** 4.00pm – 6.30pm

#### Registration fee (for the 3 sessions):

STAV Individual members/Subscribers: \$100

Non-members: \$120

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Workshops are suitable for teachers of middle years 5 – 8 and also suitable for teachers inexperienced in teaching physics concepts (yrs 7 – 10).

#### Included:

- Booklet of activities and ideas
- CD of activities and ideas.
- Morning tea, lunch and afternoon tea for full day session: light afternoon tea for evening sessions.

To register, download a registration form from our website: <http://www.stav.org.au/html/scienceEvents.html>

## Call for Sessions - LabTech PD day

STAV is seeking presenters to deliver short sessions to Laboratory Technicians. Sessions may address any issues relevant to lab techs, including but not limited to the following examples:

#### General Laboratory:

- Laboratory Management and Organisation
- Dealing with multiple tasks/requests/people – prioritising work
- Building relationships with other staff – developing a support network
- Dealing with customers (teachers) – dealing with difficult people!
- Safety Equipment in the Laboratory and classroom – setting up a safe work environment
- Animal Handling and ethics in the school laboratory

#### Also for specific subject areas:

- Microscopic Techniques
- A toolkit for microbiology
- Tissue Culture Techniques
- Getting to know your equipment eg Spectrometers eg AAS, Chromatography (gas and thin layer), Nuclear Magnetic Resonance (NMR)
- Science Software
- Renewable energy simulations

Send your expression of interest to [stav@stav.vic.edu.au](mailto:stav@stav.vic.edu.au)

## Molecular Methods for Secondary Teachers.



**Dates: Tuesday 16th June - Wednesday 17th June (6.00 – 9.00pm)**

VCE Biology curriculum Units 3 and 4 has a focus on molecular biology approaches to cell physiology, biochemistry and genetics. This includes the contemporary topics:

- The structure and function of DNA and RNA;
- Genes as inheritable protein coding units;
- DNA characterisation (profiling, sequencing, mapping);
- DNA manipulation (cloning, transformation and recombination);
- DNA amplification (PCR and qPCR); mutations

To assist with this, BioSkills Specialist Centre is offering a Molecular Biology short course specifically for secondary teachers is aimed at addressing practical aspects of the VCE Biology Units 3 and 4 curricula.

This will include brief theoretical discussions followed by the opportunity to personally perform most of these practical techniques in our laboratories, using industry-standard instrumentation and facilities.

For Whom

- Secondary teachers devising and delivering VCE Biology Units 3 and 4;
- Laboratory Technicians responsible for preparing and setting up school labs and procedures

Course information

Course code:	Bio 25	Venue:	Building 8, Level 3, Room E8.350
Course fee (incl. GST):	\$280.00		Box Hill Institute,
Maximum class size:	20 participants		465 Elgar Road,
Time:	6.00pm – 9.00pm (both evenings)		Box Hill
Total course duration:	6 hours		

**For more information call 1300 BOX HILL (1300 269 445)**

**Visit [www.boxhillinstitute.edu.au](http://www.boxhillinstitute.edu.au)**

**Real Training. Extraordinary Results.**

# Semester two highlights at Scienceworks

## Star Wars: Where Science Meets Imagination

**Available until 3 November 2009**  
**Suitable for Years Prep –10**

A combination of costumes and props from all six *Star Wars* films with real-world technologies, video interviews with filmmakers, scientists and engineers. Students can explore prototypes, learn about the engineers and designers who create new technologies and discover intriguing similarities between how scientists and filmmakers think.

The exhibition explores the themes of 'Robots and people', 'Getting around' and 'Living in different environments'. Participate in two engineering design labs to experiment with magnetic levitation and robot design.

### Education programs

An exhibition booking provides 90 minutes in the exhibition and education materials including VELS curriculum links, school-based activities and teacher resources. A feature of the education kit is a variety of Rich Assessment Tasks that have been designed to complete your students' learning experience.

### Costs

\$5 per student plus a one-off \$11 booking fee per school. All education groups must book.

*Star Wars: Where Science Meets Imagination*, presented by Bose Corporation, was developed by the Museum of Science, Boston and Lucasfilm Ltd. The exhibition is based upon work supported by a grant from the National Science Foundation, USA. © 2009 Lucasfilm Ltd. & TM. All rights reserved.

Presented by Major partner Media partners

## New Planetarium show

Our new planetarium show – *The Living Climate* will be launched at the beginning of Term 3. This show will present a dramatic and different way of looking at climate and climate change. A visually spectacular story will unfold on a global scale, revealing how the climate first evolved and how it has been endlessly transformed by weather patterns, Ice Ages and the appearance of new life forms. Recent, man-made climate change will be seen in the context of changes in climate that have occurred throughout the Earth's history and by looking closely at our planet's place in the Solar System.

### Costs

\$3.30 per student plus a one-off \$11 booking fee per school.

All education groups must book.

**Book 8.30am to 4.30pm weekdays**  
**on 9392 4819**

**2 Booker Street Spotswood**  
**[museumvictoria.com.au/education](http://museumvictoria.com.au/education)**



# Global crises must make Earth and Environmental Science a major focus of National Science Curriculum

The proposed National Science Curriculum for Australian schools must ensure that Earth and Environmental Science receives the same significant focus in classrooms as biology, chemistry and physics, given its critical role in combating the environmental, energy and economic crises that Australia and the world are now facing, the Geological Society of Australia (GSA) has warned.

In two submissions to the National Curriculum Board's consultative process on *The shape of the National Curriculum*, the GSA has strongly supported the development of a National Science Curriculum covering all years from kindergarten through to high school. But it has warned that the new curriculum will be a 'make or break' opportunity for Earth and Environmental Science to finally be given dedicated teaching time at Australian schools after decades of being 'left in the classroom cupboard' to make way for studies in the traditional sciences of biology, chemistry and physics.

"We fully support the need for students to be well-grounded in biology, chemistry and physics, but a solid grounding in Earth and Environmental Science is just as critical given the centre-stage role this discipline is now playing in combating the major environmental, energy and economic crises of the 21st century" GSA President, Professor Peter Cawood, said. "Earth and Environmental Science is already at the centre of global efforts to develop cost-effective responses to huge challenges like climate change, drought and water contamination, salinity and other environmental degradation, geo-hazards like tsunamis and earthquakes, the need for clean and reliable baseload energy, threats to food security, the contamination of productive land and the impact of urban development on land health.

"Earth and Environmental Science also generates much of the wealth that Australia enjoys (for example, it contributes about 10% of Australia's GDP through exports from related sectors like the minerals and petroleum industries), as well as holding the key to a sustainable future and underpinning much of the knowledge base of other sciences and allied fields such as agriculture, climate science, ecology, engineering and even medicine. At senior school level, Earth

and Environmental Science is the perfect umbrella discipline for bringing biology, physics and chemistry together under one roof. It provides a 'real life' context to engage children of all ages in science, and it has real potential to be the key portal for increasing interest in science in the early school years. We also need to counter the serious 20 year decline in the number of those studying Earth and Environmental Science at our universities if we are to reverse the critical shortage of Earth and Environmental scientists in Australia. By far the best way to get more students into tertiary-level study in Earth and Environmental Science is to expose them to the discipline—and the wide-ranging careers it offers—throughout their school years."

The GSA has advised strongly against a National Curriculum Board recommendation that the fourth science subject at senior school should focus on Environmental Science only, arguing that Earth and Environmental Science is 'joined at the hip' and that effective Environmental Science can only be taught in full appreciation of Earth processes and how they evolve over time. It has also urged the Board to convene an advisory body comprising the GSA and other organisations in formulating Earth and Environmental Science subjects for Australia's schools. The GSA is also deeply concerned about declining levels of student engagement in all science subjects, warning that better resourcing of all schools is critical in reversing this trend by ensuring students can gain adequate exposure to science by bringing class sizes down and enabling teachers to spend less time undertaking administrative tasks.

[Source: Geological Society of Australia, Media Release 19 April 2009.]

## Important STAV Dates

### Contact deadlines 2009

July	9 June 2009
August	13 July 2009
September	10 August 2009
October	7 September 2009
November	12 October 2009
December	9 November 2009

### STAV Council meeting dates

17 June	8 September	8 December
21 July	20 October	
11 August	18 November	

Meetings will be held at STAV House commencing at 4.30pm

## Science: Hands-on projects for primary science

**Author:** Mark Fox and Olga Fox  
**Publisher:** Curriculum Corporation  
**Description:** 64 pp book  
**Members/subscribers \$31.95;**  
**Non-members \$34.95**



*Science: Hands-on projects* uses model-making and art activities to foster an understanding of underlying scientific theories and concepts among middle and upper primary students. Visual and kinesthetic learners, particularly, benefit from the design-make-appraise learning approach. The activities will complement studies in matter, energy and force, living things, and Earth and space.

**This fully reproducible resource allows students to construct and explore:**

- recycled paper from old newspaper
- tools to analyse air and soil quality
- a kite to demonstrate aerodynamics
- basic tools to make images move
- a diorama to simulate camouflage
- a model showing symbiosis between fish and anemones
- an observatory to investigate a lunar eclipse
- a windmill to experiment with wind power.

*Science: Hands-on projects* is packed with creative and enjoyable tasks which focus learning and allow students to observe scientific principles in action.



Available from STAV Publishing [www.stav.org.au](http://www.stav.org.au)

## Do you want to sell a science related product or promote a science event?

Advertising is available in STAV Publications which are distributed to science teachers throughout Victoria.

STAV has 3 publications:

- **CONTACT** - monthly newsletter (x11 per year)
- **Let's Find Out** - primary science journal (x4 per year)
- **LabTalk** - secondary science journal (x4 per year)

You can book an ad or provide inserts. Inserts can be fliers, brochures or forms and we will insert these with the mailout of the publication you choose.

**For further information** regarding advertising bookings, rates and timelines for 2009 please contact the STAV Publications Officer on (03) 9385 3903 or email: [publications@stav.vic.edu.au](mailto:publications@stav.vic.edu.au)

## 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



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](mailto:projects@stav.vic.edu.au)





## 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 Newsletter

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