

Teacher Earth Science Education Programme



Professional Development Workshop Series in Earth and Environmental Sciences

TESEP PRESENTS: Professional Development WORKSHOP 7

PD7: Our Place in Space

Date: Thursday 31st August 2017

Time: 9.30am to 4.30pm

Venue: Melbourne Girls' College, Yarra Blvd, Richmond, VIC 3121 and
Scienceworks, Booker St, Spotswood, VIC 3015

Presenter: Philip Sansom – Tasmanian TESEP Coordinator, former teacher and geologist in the coal and petroleum exploration industry. Philip maintains an active interest in all areas of earth science and also presents and develops workshops for TESEP.

Programme:

The Earth is a complex system that works through interactions of the geosphere, hydrosphere, atmosphere and biosphere. Other bodies in the solar system demonstrate how unique Earth is and understanding both the Earth and the other solar bodies will be vital if humans are to live sustainably on Earth and elsewhere beyond Earth.

In the second half of this program teachers and laboratory technicians will travel by public transport to Scienceworks in Spotswood. There we will be visiting the planetarium for a tour offered at no extra charge. Teachers are encouraged to join MV Teachers in anticipation of this part of the program. Please see the website below:

<https://museumvictoria.com.au/education/mvteachers/>

Since this workshop takes place in 2 locations, it is preferable for teachers and laboratory technicians to arrive at Melbourne Girls' College by public transport. Please ensure that you have a Myki card with credit to travel to and from Spotswood. The programme will conclude at Spotswood at approximately 4:30.

Links to the Victorian Curriculum:

- Predictable phenomena on Earth, including seasons and eclipses, are caused by the relative positions of the sun, Earth and the moon (VCSSU099)
- Some of Earth's resources are renewable, including water that cycles through the environment, but others are non-renewable (VCSSU100)
- Change to an object's motion is caused by unbalanced forces, including Earth's gravitational attraction, acting on the object (VCSSU103)
- Scientific knowledge and understanding of the world changes as new evidence becomes available; science knowledge can develop through collaboration and connecting ideas across the disciplines and practice of science (VCSSU089)
- Scientific understanding, including models and theories, is contestable and is refined over time through a process of review by the scientific community (VCSSU114)
- Communicate ideas and processes using evidence to develop explanations of events and phenomena and to identify simple cause-and-effect relationships (VCSIS088)

This professional development session is 1 part of 3. The others include:

PD 2: *Riding the Climate Roller Coaster*, 30th August at Melbourne Girls' College, Richmond

PD 9: *Plate Tectonics*, 1st September at Melbourne Girls' College, Richmond

Teachers will receive all posters, CDs, DVDs etc. free of charge [after paying the \$55 registration fee] BUT only if they attend the PDs. They also receive an ASTA Certificate of Attendance that they can use for proof of PD if needed.

What TESEP offers teachers and laboratory technicians

- Limited CRT is available on request (contact the TESEP coordinator)
- PD hours will be noted on a certificate of attendance issued by ASTA
- run-through the topic, with experiments, demonstrations and activities
- lunch, morning and afternoon tea
- DVD, posters and class exercise material from the PD
- talks with industry geologists and half-day field trips
- two nights accommodation for a three-day combined PD workshops (conditions apply)
- one night accommodation for a two-day individual PD workshop (conditions apply)
- travel supported by \$100 petrol allowance (conditions apply)
- access to trained presenters and geology professionals
- introduction to and guidance in Earth and Environmental Sciences

A non-refundable* \$55 registration fee applies.

*The fee is transferable to another PD workshop or for another teacher to substitute.

Approval by your school principal, prior to registration is recommended.

Register through registration@tesep.org.au

Please CC VIC_coord@tesep.org.au for confirmation.

For further details or a copy of the registration form contact TESEP's Victorian coordinator Emily Rochette at VIC_coord@tesep.org.au or 0420 598 272.

See tesep.org.au for topics in this series:

Riding the Climate Roller Coaster

Round and Round with Rocks

Our Place in Space

Fossil Sunlight

Powerful Stuff

Greening Coal

Wet Rocks

Hot Rocks

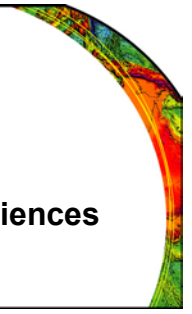
Plate Tectonics

tesep.org.au

asta.edu.au

pesa.com.au

Workshops are cancelled 5 working days prior if insufficient registrations are received. Late registrations may be accepted if the workshop is running. Always contact us and ask!



Teacher Earth Science Education Programme

Professional Development Workshop Series in Earth and Environmental Sciences
 PD workshop registration form

Workshops run from 9am to 4pm (unless otherwise indicated).

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Late registrations may be accepted if the workshop is running. Always contact us and ask!

PLEASE PRINT CLEARLY

Workshop name:	Date:
Venue:	State:

Name:		
School:		
Teaching area:		
Phone (school):	(home):	(mobile):
Email:	Fax:	
Home postal address:		
Special dietary and other requirements:		

Registration Fee: \$55 per day applies for all registrants, except for Casual/Temporary Relief Teachers, Student Teachers, unemployed and under-employed teachers, where a maximum of \$55 for one or two day workshop and associated field day will apply. To claim the discount please tick the box and state your reason for the claim:

Yes I would like to claim the discount because I am

Email or fax form to ASTA (office manager – Michelle Lollback). Send the non-refundable* registration fee (includes GST) to Australian Science Teachers Association (ABN 87 902 882 824)

Payment can be made by direct bank transfer or cheque/money order

Include your name and workshop details with payment (e.g. TESEP PD9 WA July 16 J. Citizen)

*The fee is transferable to another PD workshop or for another teacher to substitute

Fax: 02 6282 9477

Email: officemanager@asta.edu.au

Address: TESEP
 c/o ASTA
 PO Box 334
 Deakin West ACT 2600

Account details: Australian Science Teachers Association (ASTA)
 BSB: 082 902
 Account No: 556 705 700

Please tick if you require an invoice and provide the correct address for invoicing if different to your home address:

Please also email a copy of your completed form to TESEP registration: registration@tesep.org.au

A certificate will be issued by ASTA which states the number of PD attendance hours.

For registration inquiries contact registration@tesep.org.au

www.astesep.org.au www.astesa.edu.au

Please Note: Payment of subsidies and issuing of a certificate are conditional on workshop payment.