

# Teacher Earth Science Education Programme



## Professional Development Workshop Series in Earth and Environmental Sciences

### TESEP PRESENTS: Professional Development WORKSHOP 9

## PD9: Plate Tectonics

Date: Tuesday 4th July 2017

Time: 9.30am to 4.00pm

Venue: Kardinia International College, 29-31 Kardinia Drive, Bell Post Hill, VIC 3215

Presenter: Greg McNamara – Greg McNamara is an experienced geologist and science teacher and also TESEP Executive Officer, editor of the Australian Geoscience Council's GeoEdLink e-newsletter, and Education and Outreach Consultant to the Geological Society of Australia.

Travel costs to and from Geelong covered\*

\*maximum of \$100 per person or vehicle

#### Programme:

*This PD explains how the theory of Plate Tectonics was developed and how this relatively new paradigm not only explains why the Earth is so dynamic but also how it can be used to reconstruct the past appearance of the planet, predict the most likely locations of mineral and hydrocarbon deposits and explain the distribution patterns of fossil and extant animals and plants.*

*At the completion of this workshop teachers and laboratory technicians will be equipped with the background information and resources, including some practical activities, to assist them with teaching the requirements of the Victorian Curriculum, particularly Science at the Year 9 level.*

#### Links to the Victorian Curriculum:

- The theory of plate tectonics explains global patterns of geological activity and continental movement (VCSSU127)
- Geomorphic processes that produce landforms (VCGGK117)
- Causes, impacts and responses to a geomorphological hazard (VCGGK121)
- Scientific understanding, including models and theories, is contestable and is refined over time through a process of review by the scientific community (VCSSU114)
- Advances in scientific understanding often rely on developments in technology and technological advances are often linked to scientific discoveries (VCSSU115)
- Scientific knowledge has changed peoples' understanding of the world and is refined as new evidence becomes available (VCSSU089)
- Communicate ideas, findings and solutions to problems including identifying impacts and limitations of conclusions and using appropriate scientific language and representations (VCSIS113)

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

*PD 1: Round and Round with Rocks*, 3rd July at Kardinia International College, Geelong

*The Otways Field Trip* on 5th July leaving from Kardinia International College, Geelong

Participants must have attended a TESEP PD in the past or attend one or all sessions at Kardinia College to be eligible to attend the field trip.

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 nights 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

#### See [tesep.org.au](http://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*

#### 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.

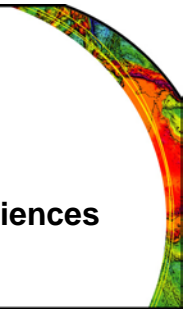
Register through [registration@tesep.org.au](mailto:registration@tesep.org.au)

Please CC [VIC\\_coord@tesep.org.au](mailto: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](mailto:VIC_coord@tesep.org.au) or 0420 598 272.

[tesep.org.au](http://tesep.org.au)  
[asta.edu.au](http://asta.edu.au)  
[pesa.com.au](http://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!



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

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

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!

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](mailto: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](mailto: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](mailto:registration@tesep.org.au)

[www.tesep.org.au](http://www.tesep.org.au) [www.asta.edu.au](http://www.asta.edu.au)

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