

# The Adelaide University AAPG Student Chapter presents:

*Depositional environments of the Hawkesbury Sandstone and associated Permo-Triassic strata in the Sydney Basin*

**2012 Student-Industry Field Trip**  
**Leader: Professor Peter McCabe**

**November 16-18, 2012**



## Adelaide University AAPG Student Chapter Presents:

# “Depositional environments of the Hawkesbury Sandstone and associated Permo-Triassic strata in the Sydney Basin”

November 16-18, 2012

### Trip Summary

This fieldtrip will examine the Permo-Triassic strata of the Sydney Basin, its depositional environments and sequence stratigraphic framework. The primary focus will be the Triassic Hawkesbury Sandstone, which is spectacularly exposed in coastal outcrops south of Sydney in Royal National Park and Botany Bay National Park. Classically interpreted as the deposit of a large sandy braided river, it has recently been reinterpreted as deposited in a tide-dominated setting. Participants will be encouraged to examine the outcrops to formulate their own interpretations of the depositional environments. The nature of facies relationships and major surfaces will be discussed and placed within a sequence stratigraphic framework. In addition to the Hawkesbury Sandstone, underlying Permo-Triassic strata will be examined and the evolution of the Sydney Basin discussed. This fieldtrip provides an excellent opportunity for those wishing to learn more about sedimentary structures, sequence stratigraphic concepts, and sandstone geometries on a reservoir scale.

The objective of the field trip is to provide the petroleum geology students at Adelaide University with an opportunity to network with industry professionals from across Australia while learning new concepts in the field.

### Trip Leader

- Professor Peter McCabe, Queensland University of Technology (see biography on page 2)

### Cost

- \$1000.00 Industry and Academics (*10 places available so be sure to register ASAP*)
- \$300.00 Students departing Adelaide (includes return flights to Sydney but negotiable if outside Adelaide; *6 places remaining so be sure to register ASAP*)
- **NB: cost does not include flights to Sydney or layover for industry participants**
- Cost includes transportation to and from Sydney airport, hotels, meals, tours and field trip supplies
- Details of lodging are yet to be confirmed

## Simplified Itinerary

**START:** Friday 16 November, **9:30 am Sydney domestic airport.**

**FINISH:** Sunday 18 November, **3:00 pm Sydney domestic airport.**

- Friday, 16<sup>th</sup> November: a coach will depart from Sydney domestic airport at **9:30 am.** We will spend the remainder of the morning and afternoon examining outcrop before returning to our accommodation before dinner.
- Saturday 17<sup>th</sup> November: 9:00 am depart accommodation. The morning will be spent examining outcrop, stopping for lunch and then continuing until 5:00 pm. We will return to accommodation before dinner.
- Sunday 18<sup>th</sup> November: 9:00 am start. The morning will be spent examining outcrop. After a late lunch, we will return to Sydney domestic airport by **3:00 pm.**

## Field Sites and Locations

This field trip will examine the Permo-Triassic strata of the Sydney Basin. The primary focus will be on the Triassic Hawkesbury Sandstone, which is spectacularly exposed in coastal outcrops south of Sydney in Royal National Park and Botany Bay National Park, located just south of Sydney. Participants are advised that the fieldtrip involves long walks along sometimes rugged coastal outcrops.

## Lodging

We will be staying in bedded accommodation between Sydney CBD and North Wollongong. Details of lodging are to be confirmed at a later date.

## Field Trip Leader Biography

### *Professor Peter McCabe*



Peter is a sedimentologist, stratigrapher and petroleum geologist with over 35 years experience working in industry, government research organizations and academia. He was recently appointed Professor of Applied Sedimentology and Director of the Centre for Unconventional Resources at Queensland University of Technology. Previously, he worked at CSIRO where he was Theme Leader for Oil and Gas Exploration and Production. Prior to moving to Australia in 2007, Peter spent most of his career in North America. He worked at the US Geological Survey for 20 years where he worked on coal-bearing strata of the western U.S. and was a leader in the World Energy Assessment project. Peter has a BSc in geology from the University of Hull and a PhD from the University of Keele. He is a past President of both the SEPM Society for Sedimentary Geology and the American Geosciences Institute.

## **Important Dates**

- Please **RSVP by SEPTEMBER 21<sup>st</sup>** to Jessica Trainor – Student Chapter President ([jessica.trainor@adelaide.edu.au](mailto:jessica.trainor@adelaide.edu.au); Mobile: 0428 533 580, Work: 08 8303 8020)
- Please fill out the attached registration form (page 4) and return on or before **OCTOBER 5<sup>th</sup>** by post, fax or email to the address provided (email preferred)
- Deposit of \$250.00 due on or before **OCTOBER 5<sup>th</sup>**
- Payment due (in full) on or before **OCTOBER 19<sup>th</sup>**

## **Payment Options**

Cost is \$1000.00 for industry, \$300.00 for students (where students are departing Adelaide; contact [jessica.trainor@adelaide.edu.au](mailto:jessica.trainor@adelaide.edu.au) for student departure outside Adelaide)

- Cheque made payable to: AAPG Student Chapter – Adelaide University

OR

- Direct Deposit:
  - **Account Name:** AAPG Student Chapter – Adelaide Uni
  - **Institution:** Bank SA
  - **BSB Number:** 105-134
  - **Account Number:** 070 279 440

Please send confirmation email with your name and company name to [jessica.trainor@adelaide.edu.au](mailto:jessica.trainor@adelaide.edu.au) to confirm that your payment has been received. A receipt will then be issued.

## **Contact Details**

C/O Jessica Trainor

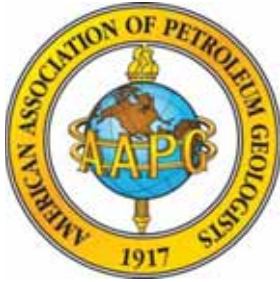
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*Adelaide University AAPG Student Chapter Presents:*

**Depositional environments of the Hawkesbury  
 Sandstone and associated Permo-Triassic strata in  
 the Sydney Basin**

The AAPG Adelaide Student Chapter would like to extend an invitation to the annual AAPG Student Chapter Field Trip which this year will explore the sedimentology and sequence stratigraphy of the Sydney Basin, NSW.

***Applicant details***

Name: \_\_\_\_\_

Company/Affiliation: \_\_\_\_\_

Phone: (m) \_\_\_\_\_ (h) \_\_\_\_\_ (w) \_\_\_\_\_

Email: \_\_\_\_\_

***Payment details (please tick)***

- Cheque                       Direct Deposit

***Dietary requirements***

Please specify: \_\_\_\_\_  
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