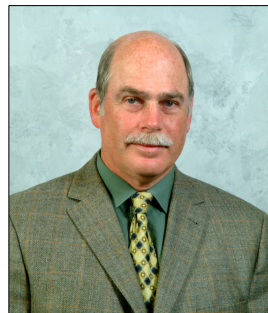


Australian Society of Exploration Geophysicists
WESTERN AUSTRALIA BRANCH
ABN: 71 000 876 040

2008 DISC
Distinguished Instructor Short Course
Reservoir Geophysics: Applications

Presenter: William L. Abriel, Chevron



Overview

The objective of the course is to demonstrate how and why geophysics adds value in reservoir management using examples from multiple geological environments (deepwater turbidites, onshore fluvial, near shore deltaics, carbonates). The course is designed to examine and illustrate the dependencies of geology and engineering data on geophysical applications during reservoir management and to expose participants to the variety of geophysical tools used in reservoir work. The participants will become familiar with the application and value of geophysics for users (customers) as well as the inherent risks and uncertainties.

The material is organized into 6 lectures and 2 student problems for a total of 6 hours and 30 minutes.

The first lecture introduces the life cycle of reservoir management, what economic drivers are important in each cycle and how geophysics adds value. This includes concepts of uncertainty and value of information (VOI) calculation.

This is followed by a lecture on the role of specific geophysical applications in discovery and delineation including the introduction of key well information, geological facies modeling and well ties. A case history is presented showing the difference between 2D and 3D AVO for delineating an oil discovery.

The third section is a student hands-on problem for choosing well locations for delineating a deep water sub-salt discovery. Post-stack and pre-stack 3D seismic data are included. The actual delineation results are shown.

The following section is presented on the role of geophysics in development. This concentrates on the value of seismic attributes (inversion, spectral decomposition, quadrature,) showing their application to reservoir development projects.

The fifth section covers production and the application of geophysics. This includes seismic response to field production, a work flow for 4D, and reservoir monitoring case histories.

This is followed by a second student problem of a continental shelf project. The problem is presented with production drilling history and an initial 3D survey showing production effects in an oil reservoir. The students are asked to locate infill wells. Results are shown including a second time-lapse 3D survey and actual infill results.

(cont.)

The seventh section is a description of reservoir geophysics in heavy oil environments. Production problems unique to heavy oil are discussed along with geophysical technologies to address them, including time-lapse seismic, cross-well seismic, and cross-well electromagnetics.

The final section covers reservoir geophysics in carbonates. This includes reflection systems in carbonate facies, property estimation of carbonate reservoirs from seismic data. Case histories are presented including 4D reservoir monitoring of CO2 injection.



Special thanks to our WA Business Partners

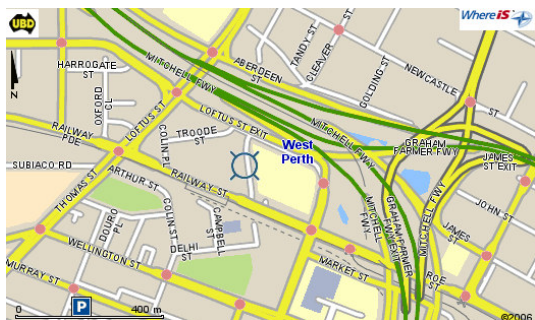


Biography

William L. Abriel, internal geophysical consultant at Chevron Energy Technology Company, San Ramon, California, began his work in the industry with Chevron in New Orleans in 1978. His technical interests are mainly in application of new technology to active projects, including acquisition, processing, interpretation, and integration. He has been the geophysical lead for Chevron projects in many oil and gas basins around the world, concentrating on North America, China, Australia, South America, and Russia. He has produced publications and has given presentations explaining and advancing geophysical technology.

Abriel has participated in technical committees for many SEG meetings on international, national, research, and multidisciplinary scales. He has published in most industry journals annually and has been a member of the editorial board of THE LEADING EDGE and an associate editor of GEOPHYSICS. He also has served on numerous SEG committees, including Development, Membership, Research, Global Affairs, and Distinguished Lecture. He was the SEG Spring Distinguished Lecturer in 2004 and is a founding and current board member of the SEG Advanced Modeling Corporation (SEAM). Abriel was named a life member of SEG in 2007.

He received a B.S. in geosciences and an M.S. in geophysics, both from Pennsylvania State University, where he was a founding member of the SEG student section and earned four varsity letters in lacrosse. He still keeps a hand in coaching lacrosse. He and his wife, Vangie, an attorney who teaches at Santa Clara University School of Law in California, have three children.



WHEN
Wednesday 3 September

TIME
(Regn from 8.00am) 8.30am – 5.00pm
Includes lunch and refreshments

WHERE
Citywest Function Centre
45 Plaistowe Mews,
City West Centre West Perth

Parking
FREE Parking is available in the Scitech carpark across the road from City West Function Centre on Plaistowe Mews, West Perth. When you register simply collect your pass for displaying on your dashboard.

For more information and to register online visit <http://www.aseg.org.au>

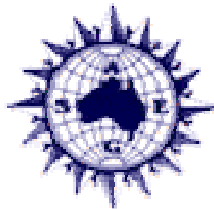
Who should attend

The primary attendees considered for this course are geophysicists of all backgrounds who are or will be supporting delineation, development and/or production of oil and gas fields. This includes interpreters, processors, researchers and service employees. The course is predominantly conceptual and graphical showing use by example, and no theoretical background in geophysics is required. Therefore, the course is also highly applicable to geologists, engineers, and managers engaged in reservoir management of oil and gas field and who use, or need to use, geophysics.



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2008 DISC

SEG/EAGE DISTINGUISHED INSTRUCTOR SHORT COURSE

Reservoir Geophysics: Applications

Presenter: William L. Abriel, Chevron

TAX INVOICE

To: The Secretariat – ASEG WA

PO Box 8463, Perth Business Centre WA 6849 Tel: (08) 9427 0860 Fax: (08) 9427 0861

Please reserve 1 place for "2008 DISC" – Reservoir Geophysics: Applications - 3 September 2008"

Surname _____ Given Name _____

Company/Organisation _____ Telephone: _____

Postal Address _____ Postcode _____

Facsimile: _____ Email: _____

Important: registrations will NOT be processed without payment. Please complete a separate form for each registrant.

SEG Mbr	<input type="checkbox"/> Yes	<input type="checkbox"/> No	ASEG Mbr	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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Cost (all fees are GST inclusive)

- Member of ASEG and SEG \$165.00
- Member of SEG who would like to join ASEG* \$247.50
- Member of ASEG who would like to join SEG * \$275.00
- Not a member of ASEG or SEG (fee includes mbrship of ASEG and SEG) \$357.50
- Student member of ASEG and SEG \$ 88.00
- Student Member of SEG but not a mbr of ASEG (fee includes student mbrship of ASEG) \$110.00

*Includes membership dues for 2008. If you wish to join SEG please submit appropriate membership application form(s) with this registration form. You can download membership forms from www.aseg.org.au OR www.seg.org.

- Cheque for \$ _____ enclosed. (please make cheques payable to ASEG)
- PLEASE CHARGE Visa Mastercard Bankcard EXPIRY DATE ____/____

CARD NO

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NAME ON CARD: _____ **SIGNATURE:** _____

Payment required on the return of this registration. Invoices will not be issued. Receipt only on request. Our receipt of this form is confirmation of your acceptance.