

South Australia Society of Petroleum Engineers

# TRAINING COURSES

## Production Forecasting and Reserve Estimation in Unconventional Reservoirs

Instructor: **Dr Manny Haghighi**

Australian School of Petroleum, University of Adelaide

*Receive an overview of the key issues and methods relevant to production forecasting and reserve estimation of unconventional reservoirs*

**7-8 FEBURARY 2012 | 09:00-17:00**

Ayers House | 288 North Terrace | Adelaide SA 5000

**Register today for this comprehensive 2-day training course taught by an industry leader**

**Class size is limited, so don't delay – Register today!**

Email: Dr. Manny Haghighi ([mhaghighi@asp.adelaide.edu.au](mailto:mhaghighi@asp.adelaide.edu.au))

*Turn over for more course details...*

**Society of Petroleum Engineers**  
<http://southaustralia.spe.org/>



**South Australian Section**

# South Australia Society of Petroleum Engineers

## TRAINING COURSES:

### Production Forecasting and Reserve Estimation in Unconventional Reservoirs



South Australian Section

#### Course Fees

SPE Member:	AU \$ 1500
Non Member:	AU \$ 1650
SPE Student Member:	AU \$ 150

\*Course fees are inclusive of 10% GST\*

#### To Register

Email completed registration form to :

Dr. Manny Haghighi

[mhaghighi@asp.adelaide.edu.au](mailto:mhaghighi@asp.adelaide.edu.au)

RSVP: 15<sup>th</sup> January, 2012

Payment required to guarantee your reservation.

**Note:** Santos employees - use Oracle No. 100849

#### Course Description

This two-day course will provide an overview of the key issues and methods relevant to production forecasting and reserve estimation of unconventional reservoirs. The course will focus on production data analysis and reservoir simulation for Shale Gas, Coal-Bed Methane and Tight Gas reservoirs with multistage hydraulic fracturing in horizontal wells. Most of the course deals with decline curve analysis.

#### Course Outline

- Arps decline model.
- Advanced decline curve analysis.
- Modified power-law model.
- Radial flow double porosity model.
- Linear single porosity model.
- Linear dual porosity model.
- Pressure dependent permeability and dynamic slippage effect
- Tri-linear flow model.
- Use of analytical reservoir models in forecasting production and estimating reserves in unconventional reservoirs.
- Use of numerical reservoir simulators in forecasting production and estimating reserves in unconventional reservoirs.

#### About the Instructor

**Dr. Manny Haghighi** is a senior lecturer in the Australian School of Petroleum, University of Adelaide. He has published extensively and has offered several specialized technical courses/seminars internationally on conventional and unconventional naturally fractured reservoirs. He holds a MS in Chemical Engineering from University of Tehran, Iran and a M.Sc. and PhD in Petroleum Engineering from University of Southern California. He is a member of SPE and CIM. Currently, he is a Technical Editor for several journals in Petroleum Engineering

#### Attendees Will Receive

Student manual with full course materials. Full catering will be provided.



South Australian Section

## CONTINUING EDUCATION PROGRAM REGISTRATION FORM

### Production Forecasting and Reserve Estimation in Unconventional Reservoirs

**Dr Manny Haghighi**  
**ASP, University of Adelaide**

**Ayers House, 288 North Terrace, Adelaide SA 5000**

**February 7– 8, 2012 (09:00 - 17:00)**

#### ATTENDEE DETAILS

NAME : \_\_\_\_\_

JOB TITLE : \_\_\_\_\_

ORGANISATION : \_\_\_\_\_

SPE MEMBER : YES / NO

IF YES, MEMBERSHIP # : \_\_\_\_\_

ATTENDANCE TYPE:

SPE MEMBER (\$1500) ☐ NON-MEMBER (\$1650) ☐ STUDENT SPE MEMBER (\$150) ☐

ADDRESS : (Street Name) \_\_\_\_\_

(Suburb) \_\_\_\_\_ (Post Code) \_\_\_\_\_

TEL : \_\_\_\_\_ FAX : \_\_\_\_\_

EMAIL : \_\_\_\_\_

SIGNATURE : \_\_\_\_\_

Please send your completed registration form together with the course fee by **January 15, 2012** to the attention of:

Dr Manny Haghighi, SPE-South Australia Section

C/- Australian School of Petroleum

The University of Adelaide, Adelaide SA5005

Tel: (08) 8303-4296 e-mail: mhaghighi@asp.adelaide.edu.au

#### Forms of Payment :

(sorry, no credit card facilities available)

Money Order/Cheque payable to:

“Society of Petroleum Engineers South Australian Section”

Electronic Funds Transfer to: (Please include your name in the transaction description)

Account Name: Society of Petroleum Engineers

BSB : 805 050 Account # : 61557045

**Note:** Santos employees  
please enrol through  
Oracle using  
**Oracle No. 100849**