



SPE WA Continuing Education Programme

- Title:** Formation Damage in Oil & Gas Production
(with emphasis on waterflooding and offshore)
- Instructor:** Professor Pavel Bedrikovetsky,
Australian School of Petroleum, University of Adelaide
- Date:** Wednesday 17th to Thursday 18th June 2009
- Location:** Perth Convention Centre, Meeting Room 9, Level 2
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Course Content

- Introduction: Brief Overview of the Types of Formation Damage, its Prevention and Remediation
- Water Management. Onshore and off-shore. Water injection – river, lake and seawater. Produced water re-injection. Disposal of produced water in aquifers
- Injectivity decline: laboratory and mathematical modelling. Prediction of injectivity impairment from well history, from coreflood data, from modeling. Field M (Brazil)
- Injectivity decline in fractured wells. Prediction, well management. Using induced formation damage to improve sweep during waterflooding
- Horizontal wells – injectivity issues. Taking advantage of formation damage in horizontal injectors and producers for IOR.
- Decision making on injectivity: water filters, corrosion decrease and water treatment, dissalinization, chemical treatment.
- Productivity/injectivity damage in gravel packs.
- Productivity decrease during sand production/control. Sand screen sizing and selection.
- Formation damage during drilling. Sizing of particles in drilling fluids. Deep bed filtration and cake formation
- Damage due to fines migration: heavy oil reservoirs; low consolidated sands. Well management under fines migration. Horizontal wells. Productivity decline. Fields M, R and K (Brazil), Sh (Russia).
- Oilfield scaling. Formation damage and productivity decline due to sulphate scaling. Fields Alba (North Sea), M and Z (Brazil).
- Decision making with oilfield scaling: inhibitors, sulphate decreasing plant, stimulation
- Formation damage due to drilling, its removal.
- Precipitation of asphaltenes and paraffins, its effect on productivity.
- Productivity decline in gas-condensate wells
- Productivity damage in deformable rocks, pore closing.
- Well stimulation and formation damage.
- Taking advantage of formation damage – lessons from Brazil, UK, Norway and Russia

Who should attend

Reservoir, drilling and production engineers; simulation and laboratory specialists involved in waterflooding, drilling and well stimulation.

Biography

Pavel Bedrikovetsky is an author of two books in reservoir engineering and 140 technical papers in International Journals and SPE. His research covers formation damage and IOR. He holds MSc in Applied Mathematics, PhD in Fluid Mechanics and DSc in Reservoir Engineering from Moscow Oil-Gas Gubkin University. In 1991-1994 he was a Visiting Professor at Delft University of Technology and at Imperial College of Science and Technology, where he consulted BP, Chevron, Total, Shell and Statoil. Since 1994 till now he is Petrobras Senior Staff Consultant. He served as Section Chairman, short course instructor, key speaker and Steering Committee member at several SPE Conferences.



**Society of Petroleum
Engineers (WA Section)
ABN: 50 345 763 740**

Since 2008 Pavel is Professor in Petroleum Engineering at Australian School of Petroleum, University of Adelaide. He is also 2008-2009 SPE Distinguished Lecturer.

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Formation Damage in Oil & Gas Production

PROFESSOR PAVEL BEDRIKOVETSKY, UNIVERSITY OF ADELAIDE

Wednesday 17th to Thursday 18th June 2009
Perth Convention Centre, Meeting Room 9, Level 2

Registration Form & Tax Invoice (ABN: 50 345 763 740)

The **Fee** for this 2-day course (inclusive of GST) is:
\$1,250 for SPE Members and **\$1,375** for Non-Members.

The fee includes course material, lunch plus morning & afternoon tea / coffee
(Please advise of any special dietary requirements)

Registration Deadline:

Two weeks prior to course commencement, i.e. 3rd June 2009. This is a popular course and lecturer, so please apply promptly to avoid disappointment.

Cancellation:

A full refund of fees will apply to cancellations received up to two weeks prior to the course (i.e. 3rd June 2009). No refunds will apply after that date.

Booking and Payment:

Complete the form below and send / fax it to Virginia Mosk at SPE (contact details below).

Cheques should be made payable to "Society of Petroleum Engineers - WA Section"
We accept Visa, MasterCard or AMEX.

Please make sure you complete all the details for credit card payments.

Name: _____ Position: _____

Company: _____

Address: _____

Phone: _____ Fax: _____ Email: _____

Tick One: SPE Member Non SPE Member

Payment: Cheque enclosed for \$ _____

Credit Card payment amount \$ _____ VISA MasterCard AMEX

Card Holders Name: _____

Card Number: _____

Expiry Date: _____

Your signature: _____

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