



# DATES

Vol. III, Issue IV

February 2004

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Thank you  
to our  
February's  
Meeting Sponsor



Don't miss this newsletter  
on our website! Go to  
[www.spedubai.org](http://www.spedubai.org) for the  
full color edition.

## Performance Behavior of Carbonate Reservoirs

**Speaker:**

**M.R. Fassihi, Distinguished SPE Lecturer**

**Date: Sunday, February 8th, 11:30A.M.**

**Venue: Holiday Inn Crowne Plaza, Sheikh Zayed Road**

**Cost: 125 dhs**

### Abstract:

In this talk, I will focus on comparing behaviors of many carbonate reservoirs around the world (West Texas, Middle East, etc.). I will particularly focus on their oil and water production performance, water cut breakthrough, well water-cut development, and reservoir water movement. I will try to link their behavior to parameters such as:

- Heterogeneity and its impact during primary or secondary recovery
- Wettability (80% of carbonate reservoirs are oil wet) and its impact on:
  - Displacement efficiency
  - Water injectivity
  - Water-cut patterns
- Well spacing (West Texas vs. Middle East) and its impact on flow patterns and reservoir performance.

Since most carbonates reservoirs are naturally fractured, the role of fractures will be examined. New seismic methods for detecting fractures and their effectiveness will be discussed in this presentation.

Also, I will show how simplistic simulation models have resulted in overestimation of recovery factor, prediction of longer breakthrough times, and underestimation of the water-cut development.

Application of IOR processes to carbonate reservoirs will be discussed. Because of its complexity, it will be shown why Pilot Testing is needed if one plans to inject water or gas in such fields.

### Biography:

Reza Fassihi is manager of subsurface learning and development for BP in Houston. Previously, he was the preproject manager and subsurface team leader for the BP Caspian/Middle East Business Unit in Sunbury, UK. Reza has more than 21 years of oil industry experience and has worked for ARCO Technology Center in Plano, Texas, and Amoco Research Center in Tulsa. He holds a PhD degree from Stanford U. His interests are Reservoir Management, Prospect and Reservoir Evaluation, and Thermal Recovery. ☼

### CHAIRMAN'S MESSAGE

**Ather Masood**  
**Hughes Christensen**



This year activities started with a very interesting technical presentation on Drilling Systems by Schlumberger on 14th January. This was followed by the ever popular Night at The Races at Nad Al Shiba Racing Club on 22nd January. This event was a complete sold out and was well attended by the SPE members and their guests. The Night was a huge success and all present had a great time. I would like to thank all of the SPE members and the guests, also the sponsors who helped in making it a success.

The SPE Golf Tournament is going to be held at the Emirates Golf Club Majlis course on the 1st of April 2004. Details and information regarding the tournament and registration are in this newsletter.

This month's Technical meeting will be a part of Distinguished Lecture series. Details of the topic can be found in this newsletter.

As always, we need your help with planning and organizing the social functions. Attached in this newsletter, you will find the names, phone numbers, and email addresses for the board of direc-

tors. Please contact the person in charge of the appropriate function if you are willing to help. List of the board members can be found from our website at [www.spedubai.org](http://www.spedubai.org). ☼

### MEMBERSHIP NEWS

**RadhaKrishnan (RK)**  
**Dubai Petroleum Company**



First of all thanks for the overwhelming attendance during the last section meeting and at the Night at Races.

Reproduced below is the message from SPE Sections Manager regarding the ongoing membership development program. Please help develop the membership of your society by inviting your friends and colleagues in the petroleum industry to become members of SPE. Please contact me with any questions or for additional membership application forms, brochures etc. Thank you in advance for your cooperation and support.

“As a member of SPE, you should have now heard about our 2004 membership contest entitled, Build the World of SPE!, which asks your members to share the benefits of membership with colleagues by inviting them to join SPE. As section leaders, SPE requests your section's assistance in promoting this new contest in your upcoming newsletters and websites (SPE's Refer 5 Members online program ended 31 December 2003).

The new 2004 SPE Membership Campaign (<http://www.spe.org/recruit>) gives your section members the chance to win prizes and earn credits towards Membership Development Appreciation Awards by inviting your friends and colleagues to join. “Build the World of SPE” began 5 January and runs through 31 December.

In addition, SPE has created 2 different sizes of banner ads for the Build the World of SPE mem-

bership campaign which can be accessed at the following link, <http://www.spe.org/web/images/adverts/membership/>. These ads should be linked to <http://www.spe.org/web/membership/index.html> or in the alternative <http://www.spe.org/recruit>.

The leading recruiters from each SPE region will be entered to win one of the quarterly prizes or might be eligible for one of the grand prizes. Leaders from each region will be posted every other month so you can track your members' progress. Generating some enthusiasm and competition on the local level can also aid your section's opportunities for winning its grouping in the annual Section Membership Contest!" ☀

### WEB UPDATE

**Wen Shi**  
**Dubai Petroleum Company**



One problem we are facing is to maintain an up-to-date email list of our members to ensure the event notices be delivered timely. Quite some people who have moved in or out of our section have not changed their membership details on [www.spe.org](http://www.spe.org), from where we update our list once a year. During the year, if you want to start or stop receiving email notices from SPE Northern Emirates Section, please send a message to [webmaster@spedubai.org](mailto:webmaster@spedubai.org) or talk to any of our board members. For those who use "bjsservices.co.ae" as their email server, please update your emails with me as soon as possible.

Our website is viewed not only by our members but also spam senders. To prevent automatic email address scanners from getting our member's and officer's emails for unauthorized use, I have converted the lists into image files. I hope you'll see less spam from now on. ☀

### TREASURER'S REPORT

**Curt Schneider**  
**Dubai Petroleum Company**



The section's finances for this meeting season are summarized in the table below. With two successful events in the last month, we are slowly improving our year-to-date deficit which started with our October '03 meeting, a self-sponsored, non-technical dinner meeting. The January technical meeting was attended by 45 and Night at the (Horse) Races was attended by over 100. Thank you to Schlumberger for contributing 10,500 dhs as the sole sponsor for both events. ☀

Northern Emirates Section Income & Expenses to-Date	
<b>INCOME</b>	
Monthly Meeting Entrance	7,379
Meeting Sponsorships	-10,000
Racing Night	26,400
<b>Total Income</b>	<b>43,779</b>
<b>EXPENSES</b>	
Board	220
Monthly Meeting	17,858
Newsletter Duplication & Postage	958
Supplies	195
Website Hosting (7 mos)	-1,413
Racing Night	25,264
<b>Total Expenses</b>	<b>45,908</b>
<b>TOTAL INCOME-EXPENSES</b>	<b>-2,129</b>



### SPE NORTHERN EMIRATES CALENDAR OF EVENTS 2003-2004

Month	Date	Event	Topic	Lecturer	Sponsor
September 2003	Oct 4	Non technical Meeting	Falconry and the UAE	Dr. Muller	SPE
October 2003	Mon 20	Monthly Technical Meeting	TBA	TBA	(cancelled)
November 2003		Ramadan			
December 2003	Mon 07	Monthly Technical Meeting	Competitive positioning of Upstream Technology	Christian Lucaa SPE Distinguished lecturer	Anderguage
January 2004	Wed 14	Monthly Technical Meeting	Geomechanics for Drilling, Completions and Reservoir Engineering	Robert Marsden, Schlumberger	Schlumberger
	Thu 22	Night at the Races			Schlumberger
February 2004	Sun 08	Monthly Technical Meeting	Performance behavior of Carbonate Reservoirs	Reza Fassihi SPE Distinguished lecturer	M-I Gulf Services, LLC
March 2004	Wed 10	Monthly Technical Meeting	The Medium (2020) and Long-term Future (2050) of Oil, Natural gas and Other energies	Pierre-Rene Bauquis SPE Distinguished lecturer	TBA
April 2004	Thu 1	SPE Golf Tournament	Fun	Emirates Golf Club	TBA
	Wed 21	Monthly Technical Meeting	TBA	TBA	TBA
May 2004	Wed 19	Monthly Technical Meeting	TBA	TBA	TBA

*This table is included in every newsletter for reference and to show a running list of who are our program sponsors. The sponsor of the month will also get a half page section on the registration form for that meeting.*

## GEOLOGY CORNER

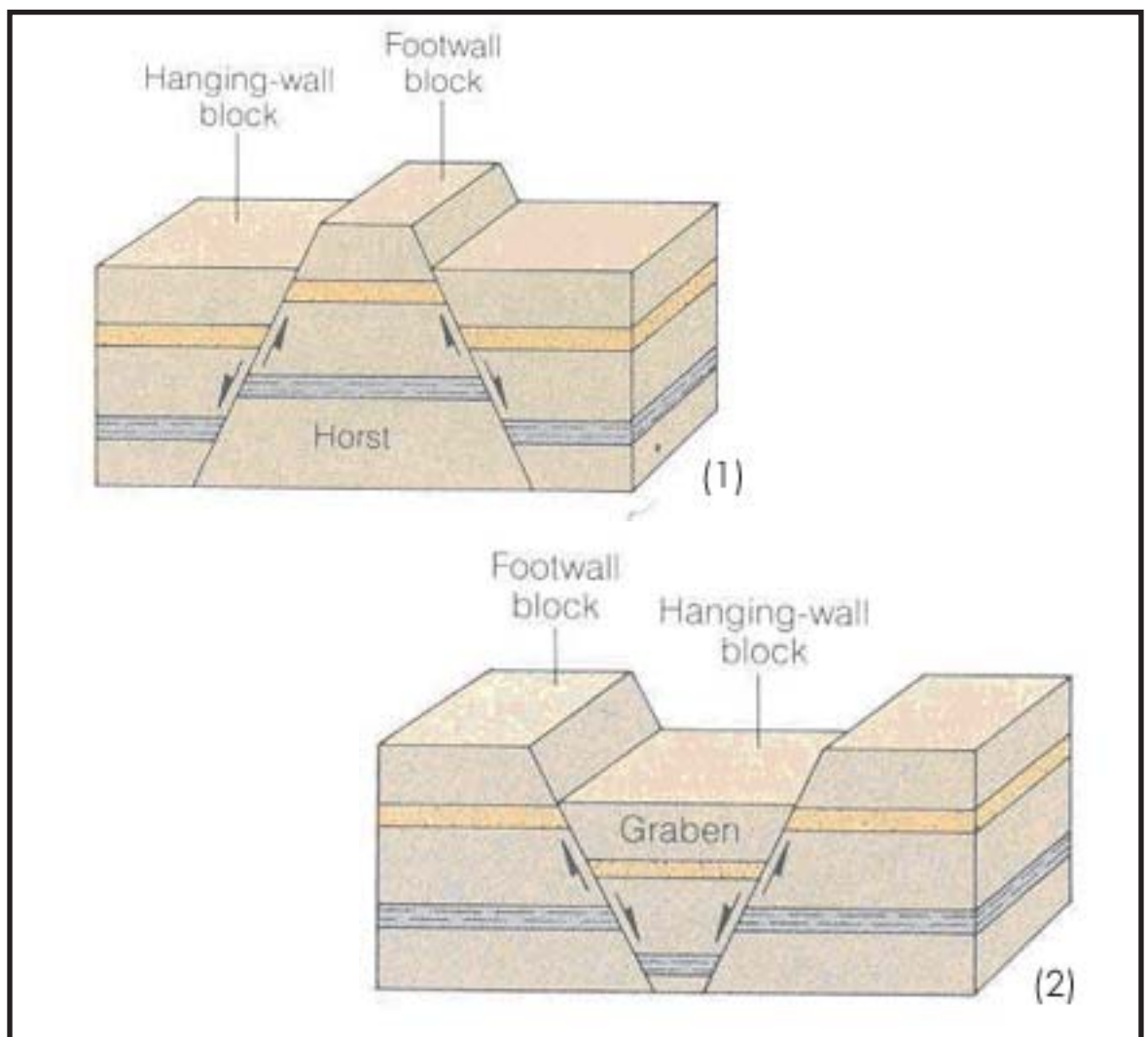
Scott Balke

Razik Shaikh

Dubai Petroleum Company

Over the next few months Scott Balke and I (Razik Shaikh) will be introducing different geologic terms and discussing what these mean in reference to drilling wells and building a reservoir model. Most of this will be pretty basic stuff, but if you have any things that you specifically wish to know, then drop us a line and we'll answer your queries as best we can.

Today's topic involves horsts (up-thrown fault blocks) and grabens (down-thrown fault blocks). Both these features are identified on seismic, electric log or the outcrop. A horst occurs where a series of faults cause a block to be raised above its immediate surroundings (Figure 1). In contrast, a graben is a faulted block that is lower than its relative surroundings (Figure 2). One-way to remember which is which is that a horst is always higher than an adjacent graben! (Illustrations Source: Skinner and Porter 1987) ☀



**2003 - 2004 SPE NORTHERN EMIRATES SECTION  
BOARD OF DIRECTORS**

<b>TITLE</b>	<b>NAME/COMPANY</b>	<b>CONTACT INFORMATION</b>
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<b>Website Chairman</b>	Wen Shi DPC	<b>(P)</b> 04-301 2288 <b>(F)</b> 04-301 2360 <a href="mailto:webmaster@spedubai.org">webmaster@spedubai.org</a>
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<b>Director</b>	Razik Shaikh DPC	<b>(P)</b> 04-301 2328 <b>(F)</b> 04-301 2360 <a href="mailto:razik.shaikh@conocophillips.com">razik.shaikh@conocophillips.com</a>

**SPE Newsletter Designer & Editor: Jenny Schneider 050 658 2807**

*Please send all entries to Curt Schneider at the above email or to [schneide@emirates.net.ae](mailto:schneide@emirates.net.ae).*

# **SPE Northern Emirates Golfing 2004**

## **Thursday, April 1<sup>st</sup> 2004**



**Course: Emirates Golf Club – Dubai  
(where Tiger and Ernie play)**

**Scramble format - 4 players / team  
dhs 4500 for hole-sponsoring team  
dhs 3000 for non hole-sponsor team**

### **Early Registration:**

For hole-sponsoring team: Feb 8-21st, 2004  
For non-hole sponsoring team: Feb 21-March 13th, 2004  
or until 56 teams total

### **Freeze Dates:**

By March 13th – Team captain must be named  
By March 27th – Players named and handicaps must be submitted

### **Sponsorship and Registration Info:**

[slamet.p.hartono@conocophillips.com](mailto:slamet.p.hartono@conocophillips.com) (for sponsorship)

[scott.balke@conocophillips.com](mailto:scott.balke@conocophillips.com) (for registration)

Registration form can be downloaded from website [www.spedubai.org](http://www.spedubai.org) and must be emailed back to [scott.balke@conocophillips.com](mailto:scott.balke@conocophillips.com)

*Payment must be by cash or cheque (payable to Curt Schneider) and can be mailed to Scott Balke, DPC main office, PO Box 2222, Dubai.*

*Committee reserves the right to decide number of teams from same company. Only with payment a registration will be confirmed. no refund for cancellation.*

**SPE 2004 Golf Committee: Ather Masood, Razik Shaikh, RK(Radhakrishnan Karantharath), Slamet Hartono, Scott Balke**



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**SPE NORTHERN EMIRATES SECTION  
Meeting Reservation Form**

**Date: Sunday, February 8th, 11:30A.M.**  
**Venue: Holiday Inn Crowne Plaza, Sheikh Zayed Road**  
**Cost: 125 dhs**

Please fill out the information below and fax back to Vineeta Karve at Dubai Petroleum Company, (F) 301 2360 or email the same to [vineeta.karve@conocophillips.com](mailto:vineeta.karve@conocophillips.com) no later than noon on Saturday, February 7th.

**COMPANY:** \_\_\_\_\_

**NO. OF SEATS:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Received From:** \_\_\_\_\_