



Update from the Vice President of Technology

By Gary Sinclair

Dear SCA Members,

I am pleased to say that the technical arrangements are proceeding well and that we received over 70 abstracts for the 22nd International Symposium of the Society of Core Analysts that will take place on the 29th October to 2nd November 2008 in Abu Dhabi, UAE. As a reminder the theme of the Symposium this year is **“Challenges in Carbonates and Solutions for Field Development”**.

All the abstracts have been evaluated by the Technical Committee and the decisions have been sent out to all authors. First drafts of the manuscripts for papers and posters are due by 20th June. All authors please note we are working to a tight deadline so your adherence to this time frame will be appreciated. Authors will be informed of the format guidelines and the reviewers to whom they should send their manuscripts by mid May.

The symposium will consist of a 1 day workshop on October 29th (see *separate report from VP Arrangements for details*) followed by 3 days of technical sessions (including both oral and poster presentations) on October 30th, 1st and 2nd November. (*Note there will be no technical sessions on Friday October 31st but the local*

organising committee will be arranging optional visits and sightseeing.)

Based on the abstract evaluations there will be around 39 oral presentations in the following sessions. (This is preliminary – so order may change)

1. Case Studies – applied core analysis, integrated studies – 2 sessions
2. Improved SCAL Techniques and Interpretation – 2 sessions
3. Wettability - Determination/Restoration – Practices and Recommendations – 1 session
4. Displacement Mechanisms - understanding the key reservoir processes – 1 session
5. Reservoir Characterization -including sample characterization and selection, scale of measurement, optimizing test design in carbonates – 1 session
6. Pore Scale Imaging and Modelling – 2 sessions
7. SCAL aiding the understanding of IOR/EOR and injection processes - 1 session

We also have 8 alternate oral presentations in case of any no shows. These will be presented as posters if not required as standby oral. The poster sessions shall include around 24 posters.

A detailed programme will be put together and posted on the SCA website as soon as all the completed manuscripts have been received and any revisions completed. If you require any further information on the proposed technical sessions you can contact me at gary@elreslab.com

Look forward to seeing you all in Abu Dhabi at what promises to be, yet again, a very informative and enjoyable symposium.

Note from the Vice President Arrangements

by ***Waddah Al Hanai***

Warm greetings from warm Abu Dhabi!

When the SCA Board voted unanimously for Abu Dhabi to host the 2008 SCA International Symposium two years ago, the news was received with great pleasure by the Petroleum Industry community in the Middle East, and particularly in Abu Dhabi. Abu Dhabi National Oil Company (ADNOC) and its group extended to the SCA their thanks and appreciation for the trust the SCA Board has in the Abu Dhabi Oil/Gas industry community.

The Year 2008 SCA Symposium will be the third time the SCA holds its annual Symposium outside Europe and North America; and this time it's again in Abu Dhabi!



Photo: Past and Present in Abu Dhabi

In order to reflect the special nature of Middle East reservoirs, the 2008 SCA Symposium Theme will be “Challenges in Carbonates and Solutions for Field Development”, while the Workshop Theme will be “SCAL for EOR / IOR”.

Through their themes, the 2008 SCA Symposium and Workshop will indeed provide an important opportunity for the SCA professionals, and for the professionals of the Gulf Region in particular, to review and discuss SCAL study results, exchange knowledge and experience, and to address the complex and subtle sub-surface issues that are distinctive and unique to Carbonate reservoirs.

Arrangements for the 2008 SCA Symposium are steadily on course. The Local Organizing Committee is packing the 2008 SCA Symposium with many events and activities:

1. A one-day Workshop on October 29; under a meaningful Theme: “SCAL for EOR / IOR”.
2. A one-day SCAL Course for beginners titled “SCAL For Modeling Carbonates” will run concurrently with the Workshop on October 29.
3. Several trips and social programs will be offered to the participants and their families.
4. A social program for the spouses and families that includes visits to folkloric and shopping venues in Abu Dhabi.

5. The Symposium venue (Rotana Beach Hotel & Towers) itself offers unique luxury and leisure features; such as:
- Member of the Leading Hotels of the World.
 - Ideally located in the heart of both business and shopping districts.
 - Connected to the Abu Dhabi Mall and Abu Dhabi Trade Center.
 - Elegant rooms and suites with a choice of 10 specialty restaurants.
 - Extensive conference and banquet facilities with the largest ballroom in Abu Dhabi.
6. The 2008 SCA Symposium is scheduled intentionally back-to-back with the Wettability Conference (October 27-28) and with the 13th ADIPEC (November 3-6). This arrangement should offer overseas Symposium participants the opportunity to attend the Wettability Conference and stay longer in Abu Dhabi to attend ADIPEC.



Photo: The ETISALAT Tower, Abu Dhabi

Generous sponsorship of the Symposium events and activities has come from ADNOC and its Operating Companies (ADCO, ADMA, ZADCO), and from several international and local organizations. We are all thankful to the splendid cooperation the LOC has received from all these sponsors.



Photo: Desert Adventurers Resting

We all hope that the 2008 SCA Symposium, like the 2000 and 2004 SCA Symposia, will help draw the much-needed attention of researchers and laboratories to the many challenges existing in characterizing, quantifying and predicting Carbonate reservoirs, which host more than 60% of the World's oil reserves, and which lie preponderantly in the giant fields of our Gulf Region.

On behalf of the SCA and the LOC, I welcome you all to the 2008 SCA Symposium and extend to you our best wishes for a pleasant stay in Abu Dhabi.



Photo: Camel Family in the Desert

SCA 2008 International Symposium & Workshop**October 29 – November 2, 2008. Abu Dhabi, U.A.E.****SCA 2008 Workshop****Workshop Theme: SCAL for EOR / IOR****Date: October 29, 2008**

This will be a day long workshop comprising a morning session and an afternoon session to discuss key issues and challenges in current EOR/IOR studies. Invited speakers of international repute will share keynote talks for approximately 30-35 minutes followed by short discussions / clarifications / comments after each presentation. Breakout sessions will be supplemented with one or two short presentations/case studies and more intense technical discussions, followed with summarized learning/suggestions/comments from each dedicated group.

Tentative agenda

Wednesday 29 October 2008

08:00 - 08:30 Opening Remarks: SCA President

Session 1: EOR/IOR and gas process displacements

Session Chairmen: Mr Gary Sinclair (ResLab) and Dr Waddah Al Hanai (ADNOC)

08:30-09:20 Session I: Presentation 1 by invited speaker on "EOR/IOR and gas process displacements"

09:20-10:10 Session I: Presentation 2 by invited speaker on "Miscible and near miscible displacements"

10:10-10:30 COFFEE

Session 2: EOR/IOR modeling

Session Chairmen: Mr Ilhan Sener (ADCO/ExxonMobil) and Dr Shawket Ghedan (PI)

10:30-11:20 Session II: Presentation 3 by invited speaker on "Modeling of EOR/IOR Experiments"

11:20-12:10 Session II: Presentation 4 by invited speaker on "Three-phase flow modeling and simulations"

12:10-13:30 LUNCH and PRAYER BREAK

Session 3: Case studies/Laboratory experience

Session Chairmen: Prof I Chatzis (PI) and Dr Shahin Negahban (ADCO/BP)

13:30 - 14:20 Session III: Presentation 5 by invited speaker on "Inorganic and acid gas injection for EOR" (laboratory and field experience)

14:20-14:40 COFFEE

Session 4: Discussion and breakout groups

Session Chairmen: Prof Douglas Ruth (U of Manitoba) and Mr Cliff Black (BP)

14:40-15:40 Session IV: Split to THREE groups for short presentations, discussions and feedback

Group heads: Mr Cliff Black, Dr Olga Vizika and Professor Ken Sorbie, respectively.

15:40-16:40 Session IV: Report back on key learning / questions / suggestions / comments

16:40-17:00 Session IV: Summary and close out session

Invited Speakers for Keynote Presentations (Exact titles subject to changes)

Session	Keynote Speaker
Session I – Presentation 1	Dr Shahin Negahban - ADCO
Session I – Presentation 2	Mr Cliff Black - BP
Session II – Presentation 3	Prof Ken Sorbie – Heriot-Watt U
Session II – Presentation 4	Professor Arne Skauge - CIPR
Session III – Presentation 5	Dr Olga Vizika - IFP

SCA 2008 International Symposium & Workshop**October 29 – November 2, 2008. Abu Dhabi, U.A.E.****SCA 2008 Course****Course Title: 'SCAL FOR MODELING CARBONATES'****Date: October 29, 2008****Presented and sponsored by IFP****IFP contributors:** Olga Vizika-Kavvadias, Jean-Marc Lombard, Mark Fleury, Samir Bekri, Louis Cuiec, Bernard Zinsner (Geologist).**Invited contributors:** Professor Ioannis Chatzis and others**Duration:** One day (8:00-12:30 Hrs and 14:00-15.30Hrs)**Venue:** Beach Rotana Hotel**Sponsorship:** IFP**Administration:** IFP and Local Organizing Committee**Cost:** Free of charge.**Objectives**

Reservoir engineers, petrophysicists and geoscientists will learn conventional and innovative methods to characterize carbonate reservoirs, principles of laboratory SCAL measurements, insitu saturation monitoring, impacts of wettability on results, coreflood simulation, applications in reservoir modeling (including examples of fractured reservoirs) and EOR.

Who Should Attend

Reservoir engineers, petrophysicists and geoscientists who are involved in interpretation and use of Special Core Analysis Data for carbonate reservoir modeling studies and/or in the design of SCAL measurements.

Number of Participants

Participation is limited to 40 people where 50% of seats will be reserved to staff from Abu Dhabi Operating Companies and 50% will be reserved for staff from GCC countries. Preference is given to national oil companies. Service providers can only attend if there are some vacancies available.

Registration: Send an email to galyafei@adco.ae; mkalam@adco.ae and sghedan@pi.ac.ae indicating your discipline, title and years of experience and objective of attending the course.

Course Outline**1- Introduction****2- Rock characterization**

- Characterization
- Classification
- Rock sensitivity to stress
- Conventional and innovative modeling methods(including pore-network modeling)

3- Wettability

- Filling history. Concept of wettability. Development of wettability at pore level and expected variations in the reservoirs. Impact of wettability and therefore fluids distribution within the pores on SCAL laboratory measurements.

4- Capillary Pressure measurements

- Definitions and concepts impacting saturation distributions in the reservoir-static and dynamic phenomena. Impact of wettability
- Main variables of Pc curves
 - Pore-structure/ pore- throat-size distribution
 - Swi determination
 - Sor determination. Concepts of Soi/SOR correlations e.g Land correlation
 - Impact of wettability
- Measurements (drainage, imbibition and secondary drainage. Hysteresis concepts). Limitations of different experimental methods and implications. Validity of conversion from different measurement methods. Calculating wettability indices from PC data.
- Associated petrophysical data measurements(m,n) and their significance in saturations calculations.

5- Relative Permeability

- Theory & definitions
- Pore-structure/ pore-throat-size effects / wettability
- Heterogeneity versus anisotropy
- Experimental methods-including reservoir vs. ambient condition tests
- Laboratory data measurements and interpretation including 3-Phase relative permeability and modeling. Comparison to 2-phase values
- The issue of scale
- Combined PC and KR in simulation modeling. Concepts of scanning curves. Consistency of KR and PC in modeling of transition zones. Some field example e.g Paleo oil caused by water imbibition during tilting.
- Brief introduction to modeling of displacement mechanisms in fractured carbonate reservoirs

6- EOR SCAL

- Some concepts of EOR-SCAL

"END-POINT..."

End-point is provided by your Editor for 'miscellany'. Please feel free to send in your contributions...

A quote for our day...

"Dignity does not consist in possessing honors, but in deserving them."

Aristotle

The next issue of SCANews, slated for August 2008, will provide specific details on the Technical Session of the SCA 2008 International Symposium being held in Abu Dhabi. Any interim information on the Symposium will be posted on the SCA Website. Also...see the SCA Website for specific Symposium registration details and associated links.

Patrick Lasswell
VP Publications

*For advertising, rates, please contact SCA
VP Publications*