Dear SCA Members,
It is with great pleasure that the Society of Core Analysts and I welcome you to the 2007 Annual Technical Symposium & Exhibition in Calgary, Alberta Canada. It is ten years since we had a SCA conference in Calgary and those of you who had been here in 1997 will not believe the growth of the city in such a short time period. For this year we have arranged for you two separate tours, one before and one after the conference. The two trips will show you some of the great natural diversity of Western Canada. The gala dinner in the Calgary Zoo promises to be a unique experience. For the accompanying persons we have prepared a list of possible destinations within the City since the two trips will cover a rich sampling of the great Canadian outdoors.

The theme of the conference is “Core Analysis for Improved Petrophysical Appraisals”. The technical committee has done a great job to assemble a collection of excellent papers and posters and I am confident that there will be plenty of opportunity for stimulating discussions. The workshop theme is “Effects of stress on cores and core analysis on heavy oil analysis” will include a tour of the Alberta Energy and Utilities Board Core Storage Facility. A selection of core from Alberta Formations will be included.

I would like to extend my gratitude to our sponsors for their generous donations, our exhibitors who undertook the effort to bring us the latest in core analysis technology. I also want to express my deepest gratitude to my one-person local organizing committee, Brenda Sauers, who managed to handle all the organizational details especially in my absence. Finally, I would like to thank Stayc for the endless corrections to my fumbles.

I hope that you will all enjoy the 2007 SCA Symposium and I wish you all welcome to Calgary.
**2007 Darcy Award for Technical Achievement**

Gerald Hamon is currently expert for Petrophysics with TOTAL. He graduated from Institut National des Sciences Appliquées de Lyon (France) in 1976 with a degree in civil engineering. After an exciting two years period in Senegal, where he was involved in two-phase flow characterisation of soils in very remote villages, he earned his PhD in Fluid Mechanics in 1980 from the Institut National Polytechnique de Grenoble (France). Gerald joined ELF in 1980 as a research engineer in the Core Analysis group. From 1986 to 1995, he worked in a variety of senior technical positions, including field development in the North Sea, and special expertise in the evaluation and numerical simulation of naturally fractured reservoirs. In his current position, he is actively involved in working with TOTAL’s assets to design and implement data acquisition programs as well as in reviewing data related to formation evaluation and recovery processes for reserves evaluation. Gerald is also leading or supervising several research projects in enhanced oil recovery and formation evaluation.

He has served as a member of the SCA technical committee since 1997. He authored or co-authored thirty-five SCA, SPE and IOR conference papers on the subjects of recovery mechanisms and numerical simulation of naturally fractured reservoirs, characterization and SCAL analysis of heterogeneous or tight samples, two-phase rock-typing, gas trapping, depressurisation of near critical and heavy oils, three phase flow, field wide wettability variations, application of pore network modelling to two-phase flow simulation. Gerald co-supervised seven PhD students to date and teaches courses on formation evaluation and recovery processes in TOTAL as well as in several universities in France.

**Update on the SCA2007 Technical Sessions from the VP Technology**

by David Potter

The detailed Technical Programme for the Symposium this year (10th -12th September) can be found in this issue of SCA News and on the SCA website. The programme includes 36 oral presentations (3 alternate oral presentations) in 10 sessions covering 7 different general subject areas: wettability, improved SCAL techniques and interpretation, displacement mechanisms, pore scale modeling, improved oil recovery, case studies, and a session for “other” topics. A reminder that the Symposium theme is “Core Analysis for Improved Petrophysical Appraisals.” In addition to the oral sessions there will be 2 poster sessions comprising 21 poster presentations. If you require any further information regarding the proposed technical sessions you can contact me at david.potter@pet.hw.ac.uk and I will do my best to answer your questions. I have also allocated more time to the two early afternoon vendor sessions, as the vendors are another important part of the
Symposium. On the day following the Symposium (13th September) we will be having a Workshop, with a number of invited speakers, where we will be discussing the effects of stress on cores and core analysis of heavy oil sands. The Workshop will include a visit in the afternoon to the AEUB core storage facility.

I thank the 33 members of the SCA 2007 International Technical Committee for all their hard work and support over several months, firstly in ranking the initial 83 submitted abstracts, and subsequently reviewing the draft and final manuscripts. This has been a huge undertaking and the Technical Committee members still have two more important tasks to perform: chairing the oral and poster sessions, and evaluating the oral and poster presentations. I also thank all the authors, for without their papers there would be no Symposium or Proceedings volume and CD.

I look forward to a fruitful Symposium and to seeing you all in Calgary.

**SCA2007 Technical Committee:**

- David Potter (Chairman) Heriot-Watt University
- Waddah Alhanai ADNOC
- Cliff Black BP
- Dave Bowen Core Laboratories
- Ted Braun Exxonmobil
- Jill Buckley New Mexico Tech
- Jean-Baptiste Clavaud Chevron
- Louis Cuiec Institute Francais du Petrole
- Patrick Egermann Gaz de France
- Ivar Erdal Numerical Rocks
- Tom Fate Chevron
- Marc Fleury Institute Francais du Petrole
- Mostafa Fourar Ecole des Mines de Nancy
- Gerald Hamon Total E&P
- Matt Honapour ExxonMobil
- Xu-Dong Jing Shell
- Apostolos Kantzas University of Calgary
- Mark Knackstedt Australian National University
- Roland Lenormand Cydarex
- Kewen Li Stanford University
- Jos Maas Shell
- Dan Maloney ConocoPhillips
- Shehadeh Masalmeh Shell Abu Dhabi
- Norma Morrow University of Wyoming
- Gary Potter Core Laboratories
- Jon Knut Ringen Statoil
- Doug Ruth University of Manitoba
- John Schafer Reservoir Management Group
- Arne Skauge University of Bergen
- Bob Smits Shell
- Ole Torsæter Norwegian University of Science and Technology
- Olga Vizika-Kavvadias Institute Francais du Petrole
SYMPOSIUM PREVIEW

MONDAY, 10 September 2007

8:00 – 9:45 Session 1 – Wettability Determination / Restoration
Chairs: T. Fate and J. Buckley

SCA2007-01 WETTABILITY ALTERATION OF CHALK BY SULPHATE CONTAINING WATER, MONITORED BY CONTACT ANGLE MEASUREMENT, L. Yu, D. C. Standnes and S. M. Skjæveland

SCA2007-02 WETTABILITY CHARACTERIZATION BY NMR $T_2$ MEASUREMENTS IN EDWARDS LIMESTONE ROCK, E.B. Johannesen, H. Riskedal, L. Tipura, J.J. Howard and A. Graue

SCA2007-03 WETTABILITY RESTORATION IN CORES CONTAMINATED BY FATTY ACID EMULSIFIERS, H. A. Kelleher, E. M. Braun, B. E. Milligan and R. C. Glotzbach


09:45 – 10.15 Break in Exhibit Area

10:15 – 12:00 Session 2 – Improved SCAL Techniques and Interpretation I
Chairs: J. Shafer and J. K. Ringen

SCA2007-05 CLAY TYPING - SENSITIVE QUANTIFICATION AND ANISOTROPY IN SYNTHETIC AND NATURAL RESERVOIR SAMPLES USING MAGNETIC SUSCEPTIBILITY FOR IMPROVED PETROPHYSICAL APPRAISALS, D. K. Potter and O. P. Ivakhnenko


SCA2007-08 A DETAILED ANALYSIS OF PERMEABILITY AND KLINKENBERG COEFFICIENT ESTIMATION FROM UNSTEADY-STATE PULSE-DECAY OR DRAW-DOWN EXPERIMENTS, Y. Jannot, D. Lasseux, G. Vizé and G. Hamon

12:00 -13:00 Lunch

13:00 - 13:45 Vendor Presentations I

13:45 – 15:30 Session 3 – Displacement Mechanisms I
Chairs: D. Maloney and R. Smits
SCA2007-09 WETTABILITY IMPACT ON CO₂ STORAGE IN AQUIFERS: VISUALISATION AND QUANTIFICATION USING MICROMODEL TESTS, PORE NETWORK MODEL AND RESERVOIR SIMULATIONS, C. Chalbaud, M. Robin, S. Bekri and P. Egermann


SCA2007-11 ACCEPTABLE WATER-OIL AND GAS-OIL RELATIVE PERMEABILITY MEASUREMENTS FOR USE IN RESERVOIR SIMULATION MODELS, Z. Kalam, T. Obeida and A. Al Masaabi

SCA2007-12 VISUALIZING FLUID FLOW WITH MRI IN OIL-WET FRACTURED CARBONATE ROCK, M. A. Fernø, G. Ersland, A. Haugen, A. Graue, J. Stevens and J. J. Howard

15:30 – 16:00 Break in Exhibit Area

16:00 – 17:00 Session 4 – Displacement Mechanisms II
Chairs: O. Vizika-Kavvadias and M. Fourar


TUESDAY, 11 September 2007

8:00 – 9:45 Session 5 – Pore Scale Imaging and Modeling I
Chairs: I. Erdal and G. Hamon


SCA2007-18 PORE SCALE MODELLING OF CARBONATE RESERVOIR ROCKS, S. Bakke, S. Roth, R. J. Held and H. G. Rueslåtten

09:45 – 10.15 Break in Exhibit Area
10:15 – 12:00 Session 6 – Improved SCAL Techniques and Interpretation II
Chairs: N. Morrow and J. Maas


SCA2007-20 THE IMPACT OF RESERVOIR CONFINING STRESS ON NMR T2 AND PORE FREQUENCY DISTRIBUTION IN SOME CARBONATE SAMPLES, P. Mitchell, M. Niedzielak1, I. A. Al-Hosani and M. Z. Kalam

SCA2007-21 CORING AND CORE ANALYSIS: CHALLENGES OF OFFSHORE ULTRA DEEP WATER RESERVOIRS, J. Shafer and T. Fate

SCA2007-22 EXPERIMENTAL MEASUREMENTS OF CAPILLARY PRESSURE WITH THE CENTRIFUGE TECHNIQUE – EMPHASIS ON EQUILIBRIUM TIME AND ACCURACY IN PRODUCTION, M. A. Fernø, R. Treinen and A. Graue

12:00 -13:00 Lunch

13:00 - 13:45 Vendor Presentations II

13:45 – 15:30 Session 7 – Improved Oil Recovery
Chairs: C. Black and X. D. Jing

SCA2007-23 INNOVATIVE CORE FLOODING TECHNOLOGY FOR HEAVY OIL RECOVERY STUDIES, J.G.C. Coenen


15:30 – 16:00 Break in Exhibit Area

16:00 – 17:15 Poster Presentations I
Chairs: A. Kantzas and W. Al Hanai

WEDNESDAY, 12 September 2007

8:00 – 9:45 Session 8 – Case Studies
Chairs: D. Ruth and M. Knackstedt

SCA2007-27 CORE PETROPHYSICAL SYNTHESIS CARRIED OUT AT A SCALE OF A BASIN, SOME EXAMPLES FROM TERTIARY OFFSHORE RESERVOIRS, M. Bennes and G. Hamon

SCA2007-29 LOW SALINITY WATERFLOODING OF A RESERVOIR ROCK, N. Loahardjo, X. Xie, P. Yin, and N. R. Morrow

SCA2007-30 COMPARISON STUDY OF CAPILLARY PRESSURE CURVES OBTAINED USING TRADITIONAL CENTRIFUGE AND MAGNETIC RESONANCE IMAGING TECHNIQUES, D. P. Green, J. R. Dick, J. Gardner, B. J. Balcom and B. Zhou

09:45 – 10.15 Break in Exhibit Area

10:15 – 12:00 Poster Presentations II
Chairs: G. Potter and T. Braun

12:00 – 13.30 Business Lunch

13:30 – 15:15 Session 9 – Pore Scale Imaging and Modeling II
Chairs: S. K. Masalmeh and L. Cuiec

SCA2007-31 THE USE OF PORE SCALE MODELING TO PREDICT RESERVOIR PARAMETERS FROM DRILL CUTTINGS, A. Mock, P.-E. Øren, H. Rueslåtten, E. Rein and Sverre Henriksen


SCA2007-34 EFFECT OF THE PORE STRUCTURE ON RESISTIVITY INDEX CURVES, M. Han, M. Fleury and P. Levitz

15:15 – 15:45 Break in Exhibit Area

15:45 – 16:45 Session 10 – Pore Scale Imaging and Modeling II (cont.) / Other
Chairs: D. K. Potter and J. B. Clavaud

SCA2007-35 NMR SURFACE RELAXIVITY DETERMINATION USING NMR APPARENT DIFFUSION CURVES AND BET MEASUREMENTS, M. Fleury


16.45 End of Symposium
ALTERNATE ORAL / POSTER PRESENTATIONS WITH FULL MANUSCRIPT

SCA2007-37 NEW METHOD TO PREPARE OUTCROP CHALK CORES FOR WETTABILITY AND OIL RECOVERY STUDIES AT LOW INITIAL WATER SATURATION, T. Puntervold, S. Strand and T. Austad

SCA2007-38 CASE STUDY FOR REPRESENTATIVE WATER SATURATION FROM LABORATORY TO LOGS AND THE EFFECT OF PORE GEOMETRY ON CAPILLARITY, M. Demaika, M. S. Efnik, M. S. Koronful, M. Al Mansoori, H. Hafez And M. Z. Kalam


POSTER PRESENTATIONS WITH EXTENDED ABSTRACTS

SCA2007-40 ESTABLISHING MIXED WET CONDITIONS IN CHALK - EMPHASIS ON WETTABILITY ALTERATION AND OIL RECOVERY, E. B. Johannesen, A. Graue, B.A. Baldwin and D. P. Tobola


SCA2007-43 FROM A MULTI-REGION MODEL TO A MULTI-FLOW PATH MODEL: INTERPRETATION OF FLOW TESTS ON HETEROGENEOUS CORES, C. A. Aggelopoulos and C. D. Tsakiroglou


SCA2007-47 MICROMODEL STUDY OF THE DISPLACEMENT MECHANISMS OF ENHANCED HEAVY OIL RECOVERY BY ALKALINE FLOODING, M. Dong, Q. Liu and A. Li


SCA2007-50 TRAPPING OF FINE PARTICLES IN GAPS IN POROUS MEDIA, E. Rodríguez and S. L. Bryant

SCA2007-51 SURPRISING TRENDS ON TRAPPED HYDROCARBON SATURATION WITH WETTABILITY, V. S. Suicmez, M. Piri and M. J. Blunt

SCA2007-52 EFFECTS OF SHEAR-FRACTURE DISPLACEMENT AND ORIENTATION ON FRACTURE TOPOLOGY AND ABSOLUTE PERMEABILITY, S. Al Enezi, A. Grader and P. Halleck

SCA2007-53 SEM IMAGING OF DRY AND SATURATED POROUS ROCKS FOR MODELING FLUID DISTRIBUTION ON PORE SCALE, T. Hildebrand-Habel¹, G. A. Virnovsky², O. I. Frette², I. Fjelde

SCA2007-54 PETROPHYSICS, IMAGE ANALYSIS, AND SAMPLE SIZE, C. M. Prince


SCA2007-56 UTILIZING SPECIAL AND CONVENTIONAL CORE ANALYSES IN RESERVOIR DEVELOPMENT AND CHARACTERIZATION OF HIGH CONTRAST CLASTIC SANDSTONE (UNAYZAH RESERVOIR, SAUDI ARABIA), T. M. Okasha


SCA2007-59 HIGH-RESOLUTION CORE FLUOROSCOPY, AN IMPORTANT TOOL FOR CORE ANALYSIS, C. M. Prince

SYMPHOSIUM PREVIEW-

1. Corex (UK), Ltd. 8. Numerical Rocks AS
2. Corpro Systems, Ltd. 9. PTS Laboratories
3. CYDAREX 10. Teledyne Isco
4. Green Imaging Technology 11. Temco
5. INTEQ, a division of Baker Hughes 12. Universal Systems
On May 16, 2007 the Houston Chapter of SPWLA held its 9th annual spring seminar. The event was held at Chevron’s office in downtown Houston. The topic for this year’s seminar was Core Analysis and Log Data Integration and was proposed by SCA members. The spring seminar is an event that was established years ago to discuss topics of interest for the local petrophysical community. Previous seminars have dealt with Formation Pressure and Wireline Testing, The Barnett Shale, Geomechanics and Permeability. This year’s presenters were selected from those that presented at the Topical Form on “Core-Log Integration for Improved Petrophysical Analysis” that was jointly hosted by SPWLA and SCA this past March in Bend, Oregon.

This year’s seminar was extremely well received. The final attendance was 127 participants and speakers. We would like to thank each and every one of our speakers for taking time out of their busy schedules to come enlighten us. These gentlemen did an outstanding job with their presentations. We also recognize and appreciate the companies that these men work for. Without their cooperation these types of events would not be possible.

E. C. Thomas, Bayou Petrophysics – Opening remarks and keynote address. Characterization of Shaly Sand Reservoirs: The Thrill of the Hunt

Robert Lieber, BP – Rock Typing in Tight Gas Reservoirs: A Revised Workflow to Capture Reservoir Complexity

Simon Clinch, Chevron – Core to Log Integration: Extracting More from the Data You Already Have

Andy Brickell, BHP Billiton – Core/Log Integration for Improved Petrophysical Analysis in Thin-bedded Reservoirs

David Herrick, Baker Inteq – Pore Geometric Controls of Conductivity and Permeability

Greg Benoit, NER, Inc. – Optimizing Core Analysis for Improved Core/Log Integration

John Shafer, Devon Energy – Upscaling Core Data to Match NMR Log Derived Permeability

Jeff Prillman, Baker Inteq – High Resolution Borehole Images from LWD
End-point is provided by your Editor for ‘miscellany’. Please feel free to send in your contributions…

This is my last issue of SCA News as your SCA editor, and I would like to take the opportunity of thanking all of the SCA members that have contributed articles to make SCA News a worthy read. I have edited SCA News for three years, providing three issues per year, having been elected to SCA VP Publications in Abu Dhabi 2004. Thankyou for electing me, I have enjoyed my time on the SCA Board. I thought after three years it was the right time to hand over the reins. It is a good opportunity, and all members are able to make nominations for Board membership, I encourage you…

Contributions for the next issue of SCA News will probably be required around November time for a December issue. Don’t forget your vote before conference for your new SCA Editor, there are currently two nominees: Pat Laswell and Jules Reed.

Regrettably, Shirley and I are unable to make Calgary in September, so I will take this opportunity to wish all our SCA friends and colleagues a good conference. I have one last joke (for those lovers of seafood):

What happened to the Lobster when he went to the disco? He pulled a mussel!

Andrew Cable  
VP Publications

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