

Technical Program

NOTE: Selected papers listed below may not be in the order in which they will be presented. The final technical program may differ from that shown due to paper substitutions. All technical sessions will be held in the Riverside Theatre on Level 2 of the Perth Convention Exhibition Centre. Taping and photographs will not be allowed in either the technical sessions or exhibition hall. Updated 15-Jun-2010

OPENING SESSION

The 51st Annual Symposium will begin at 8:00am on Monday, June 21. We are pleased to announce that the Hon Norman Moore MLC, WA Minister for Mines and Petroleum will officially open the Symposium. This will be followed by "A Welcome to Country" from past and traditional land owners on which the Symposium is being held, the Nyungar people. Mr Mike Allison, GM Reservoir Management, Chevron, will give the first keynote, whilst Dr Lutz Riepe, Principal Petrophysicist of Petronas Carigali, will give an entertaining, yet thought provoking address. Mr W David Kennedy, Vice-President of Technology, will officially open the technical sessions.

8:30-8:35AM	Opening Remarks – Symposium Chairman
8:35-8:40	Welcome To Country
8:40-8:55	Opening Address - Hon Norman Moore MLC – WA Minister Mines & Petroleum
8:55-9:05	A brief glimpse of the Australian and Oil and Gas Industry
9:05-9:25	Keynote Address - Mr Mike Allison – GM Reservoir Management, Chevron
9:25-9:45	Keynote Address - Dr. Lutz Riepe - Principal Petrophysicist, Petronas Carigali
9:45-10:25	Morning Break, sponsored by Petronas Carigali
10:25-10:30	Introduction of Technical Program - VP Technology David Kennedy Pathfinder/Smith

The Technical Program for this Symposium covers many topics in Formation Evaluation, including:

- **ELECTRICAL / EM RESISTIVITY**
- **LCR / RESERVOIR ANISOTROPY & HETEROGENEITY**
- **ACOUSTIC / BOREHOLE SEISMIC**
- **CASE HISTORIES**
- **NUCLEAR**
- **FORMATION EVALUATION / RESERVOIR DESCRIPTION METHODS**
- **POSTER SESSIONS**
- **NMR / GEOSTEERING**
- **GEOLOGICAL APPLICATIONS / BOREHOLE IMAGING**
- **FORMATION TESTING / SAMPLING / DOWNHOLE FLUID ANALYSIS**
- **PETROPHYSICAL PROPERTIES / CARBONATE EVALUATION**
- **UNCONVENTIONAL RESOURCES**

The full list of articles and schedule follow.

Session 1: ELECTRICAL / EM RESISTIVITY

Co-Chairpersons: John Zhou; Terry Hagiwara

10:30 AM	A	HIGH RESOLUTION ELECTRICAL IMAGING WHILE DRILLING; Christian Fulda, Andreas Hartmann and Matthias Gorek, Baker Hughes
10:50AM	B	A MODERN MICROWAVE FORMATION EVALUATION SENSOR AND ITS APPLICATIONS IN RESERVOIR EVALUATION; Michael Bittar, Jing Li, Gary Kainer, Ron Cherry, David Torres, Halliburton and David Mc Coy, Vintage Production California
11:1 0AM	C	DETERMINING FORMATION DIP FROM A FULLY TRIAXIAL INDUCTION TOOL P. Wu, T. Barber, D. Homan, G. Wang, C. Johnson, D. Heliot, A. Kumar, E. Ruiz, W. Xu, R. Hayden, S.Jacobsen, Schlumberger and R. Das, Brigham Oil
11:30AM	D	DIELECTRIC DISPERSION MEASUREMENTS IN CALIFORNIA HEAVY OIL RESERVOIRS; J.D. Little, Schlumberger; D.R. Julander, L.C. Knauer, Chevron USA Inc.; J.T. Aultman and J.L. Hemingway, Schlumberger
POSTER	E	INVASION IN THE TIME DOMAIN FROM LWD RESISTIVITY: AN UNTAPPED WEALTH OF INFORMATION; Carlos Maeso, Schlumberger
POSTER	F	RESPONSE SIMULATION AND THE APPLIED BASIC RESEARCH OF ARRAY LATERAL LOG IN RESERVOIRS WITH FRACTURE INDUCED ANISOTROPY; Deng Shao-gui, Fan Yi-ren, Li Zhi-qiang, Sun Qing-tao, Guo Yue-qin, School of Georesources & Information in China University of Petroleum
ALTERNATE	G	APPARENT DIP AND APPARENT ANISOTROPY FROM FREQUENCY-FOCUSED TRI-AXIAL INDUCTION LOG; Teruhiko Hagiwara, Aramco Services Company
11:50AM-1:30PM		LUNCH / BUSINESS MEETING

Session 2: LCR/ RESERVOIR ANISOTROPY & HETEROGENEITY

Co-Chairpersons: Carlos Torres-Verdin; Edward Hooper

- 1:30PM** **H** **UNDERSTANDING ELASTIC PROPERTIES AND ACOUSTIC ANISOTROPY AT THE PORE/GRAIN SCALE**
Alon Arad, Research School of Earth Sciences Australian National University; Mahyar Madadi, Applied Mathematics Department Australian National University; Andrew G. Christy, Research School of Earth Sciences Australian National University; Adrian P. Sheppard and Holger Averdunk, Applied Mathematics Department Australian National University and Mark A. Knackstedt, Applied Mathematics Department Research School of Physics and Engineering Australian National University; DigitalCore
- 1:50PM** **I** **EVALUATION OF RESISTIVITY ANISOTROPY AND FORMATION DIP FROM DIRECTIONAL ELECTROMAGNETIC TOOLS WHILE DRILLING;**
Keli Sun, Dzevat Omeragic, Chanh Cao Minh, John Rasmus, Jian Yang, Andrei Davydychev, Tarek Habashy, Roger Griffiths, Graham Reaper and Qiming Li, Schlumberger
- 2:10PM** **J** **A LAMINATED SHALY SAND WORK FLOW: A STANDARDISED APPROACH FOR THE CARNARVON BASIN WESTERN AUSTRALIA;**
Jeff Roche, Chevron Australia Pty Ltd ; Scott Cole, Saros Pty Ltd.; Jeroen Brantjes and Michael Wilson, Chevron Australia Pty Ltd
- 2:30PM** **K** **INTEGRATION OF ELECTRICAL ANISOTROPY, MAGNETIC RESONANCE, AND NUCLEAR SPECTROSCOPY DATA FOR IMPROVED PETROPHYSICAL INTERPRETATION OF WELLS IN THE JURASSIC RESERVOIRS OF THE COOPER BASIN;**
Keith Boyle, Zuraidah, Santos; Matt Bratovich, Adrian Manescu and Brian LeCompte, Baker Hughes
- POSTER** **L** **SYNTHETIC AND FIELD EXAMPLES OF THE BAYESIAN STOCHASTIC INVERSION OF GAMMA-RAY, DENSITY, AND RESISTIVITY LOGS;**
Jorge A. Sanchez-Ramirez, BHP Billiton; David Wolf, Carlos Torres-Verdín, Alberto Mendoza, and Gong Li Wang, The University of Texas at Austin
- POSTER** **M** **PETROPHYSICAL USE OF BOREHOLE IMAGES, CHARACTERIZATION AND QUANTIFICATION OF RESERVOIR PERMEABILITY ANISOTROPY;**
Jean-Pierre Leduc, Laurie Butkovic, François Umbhauer and Véronique Munoz, Total SA
- POSTER** **N** **THE ROLE OF CHLORITE IN A LOW RESISTIVITY HYDROCARBON RESERVOIR;**
Joanne Tudge, Mike Lovell and Sarah Davies, Department of Geology, University of Leicester; Mike Millar, London Petrophysical Society
- ALTERNATE** **O** **IDENTIFYING LOW CONTRAST – LOW RESISTIVITY PAY ZONES WITH PULSED NEUTRON CAPTURE LOGS IN SHALY SAND MIOCENE FORMATIONS OF SOUTH LOUISIANA;**
Gary A. Simpson and Janice Y. Menke, ConocoPhillips
- 2:50-3.30PM** **AFTERNOON BREAK**

Session 3: ACOUSTIC/BOREHOLE SEISMIC

Co-Chairpersons: Jennifer Market; Paul Pillai

3:30PM	P	INTEGRATED ACOUSTIC EVALUATION OF RESERVOIR FRACTURES: FROM BOREHOLE OUT INTO THE FORMATION; Xiaoming Tang, Alexei Bolshakov, and Doug Patterson, Baker Hughes, Inc.
3:50PM	Q	ESTIMATION OF PRINCIPAL HORIZONTAL STRESSES USING RADIAL PROFILES OF SHEAR SLOWNESSES UTILIZING SONIC DATA FROM A CO2 STORAGE SITE IN A SALINE FORMATION IN GERMANY; Bikash K. Sinha, Schlumberger-Doll Research; Amélie Ouelletb and Thomas Bérard, Schlumberger Carbon Services
4:10PM	R	JOINT PROCESSING OF FORWARD AND BACKWARD EXTENDED PRONY AND WEIGHTED SPECTRAL SEMBLANCE METHODS FOR ROBUST EXTRACTION OF VELOCITY DISPERSION DATA; Jun Ma, Pawel J. Matuszyk, Robert K. Mallan, Carlos Torres-Verdín and Benjamin C. Voss, The University of Texas at Austin
4:30PM	S	FIELD TESTING OF AN ADVANCED LWD IMAGER FOR OIL-BASED MUD APPLICATIONS; Marian Morys, Roland Chemali, George Goodman, Glenn Smollinger, Bill Schaecher and Voldi Maki, Halliburton
4:50PM	T	SLOW FORMATION SHEAR FROM AN LWD TOOL: QUADRUPOLE INVERSION WITH A GULF OF MEXICO EXAMPLE; David Scheibner, Shinji Yoneshima, Zhenxin Zhang, Wataru Izuhara, Yuichiro Wada and Peter Wu, Schlumberger; Ferdinanda Pampuri and Mauro Pelorosso, Eni
POSTER	U	IDENTIFICATION OF ELASTIC ANISOTROPY MECHANISMS FROM A JOINT INTERPRETATION OF BOREHOLE IMAGES AND SONIC LOGS; Romain Prioul and Jeroen Jocker, Schlumberger-Doll Research
POSTER	V	A DISPERSION-BASED METHOD FOR MEASURING DIPOLE SHEAR ANISOTROPY; J. Walsh, S. Bose, B. K. Sinha, S. Sunaga, T. Endo, and H.P. Valero, Schlumberger
POSTER	W	PHASE VELOCITY PROCESSING TECHNIQUE FOR MULTIPOLE ACOUSTIC LOGGING; Xiumei Zhang, State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences; Lixin Zhao, China Offshore Oil Corporation Ltd.; Hao Chen and Xiuming Wang, State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences
POSTER	X	A NEW MONOCABLE CIRCUMFERENTIAL ACOUSTIC SCANNER TOOL (CAST-M) FOR CASED-HOLE AND OPENHOLE APPLICATIONS; Batakrishna Mandal and Alberto Quintero, Halliburton
ALTERNATE	Y	DETERMINATION OF POROSITY FROM ACOUSTIC SHEAR WAVE MEASUREMENTS IN A ROTLIEGEND GAS FIELD; Titte Nurul Fatima, Joachim Strobel and Dr. Frank Bosch, Applied Geophysics and Geothermal Energy

Session 4: CASE HISTORIES

Co-Chairpersons: Keith Boyle; Allan Rennie

8:00AM	Z	ASSESSMENT OF ROCK QUALITY USING THE EFFECT OF SYNTHETIC OIL-BASE MUD-FILTRATE INVASION ON BOREHOLE ARRAY-INDUCTION RESISTIVITY MEASUREMENTS: A CASE STUDY OF A TIGHT GAS SAND FIELD IN OFFSHORE VIETNAM; Jesús M. Salazar and A. Jeff Martin (Retired), ConocoPhillips
8:20AM	AA	USING QUANTIFIED 'MODEL BASED' PETROPHYSICAL UNCERTAINTY TO AID IN CONFLICT RESOLUTION; J. Kennedy and Pujiyono, Hess Oil and Gas Malaysia; A. Cox and R. Aldred, Paradigm
8:40AM	BB	PRODUCTION PETROPHYSICS - PRESERVING PROGRAM FLEXIBILITY TO ENSURE SUCCESSFUL INFILL DELIVERY IN A MATURE FIELD ENVIRONMENT; Adrian Zett, Mike Webster and Yann Jehanno, BP
9:00AM	CC	CONSTRUCTION OF RELIABLE STATIC AND DYNAMIC MULTI-LAYER PETROPHYSICAL MODELS IN CAMISEA GAS RESERVOIRS, PERU; Ankur Gandhi, Carlos Torres-Verdín, Ben Voss, The University of Texas at Austin; Johnny Gabulle and Federico Seminario, Pluspetrol Peru S.A.
9:20AM	DD	PETROPHYSICAL DESCRIPTION AND ASSESSMENT OF STORAGE AND FLOW CAPACITY IN THE TRIASSIC KURRACHINE DOLOMITE RESERVOIRS OF ASH SHAER FIELD, PALMYRA, SYRIA; Jonathan Hall, Suncor (formerly Petro-Canada); Peter Gutteridge, Cambridge Carbonates; Lana Hamdoun, Petro-Canada; Mike Millar, Suncor (formerly Petro-Canada) and Iain Stott, Logicom E & P Ltd
POSTER	EE	USING ELEMENTAL GEOCHEMISTRY TO IMPROVE SANDSTONE RESERVOIR CHARACTERIZATION: A CASE STUDY FROM THE UNAYZAH A INTERVAL OF SAUDI ARABIA; Robin MacDonald, Douglas Hardman, Ronald Sprague, Yacine Meridji, Witjaksono Mudjiono, Saudi Aramco; James Galford, Marvin Rourke, Halliburton; Michael Dix, Chemostrat and Michael Kelton, Core Laboratories
POSTER	FF	CASE STUDY OF IMPROVED OIL-IN-PLACE DETERMINATION FROM PETROPHYSICAL EVALUATION OF RESISTIVITY ANISOTROPY LOGGING DATA IN A MALAYSIAN DEEPWATER TURBIDITE FIELD; Adrian Manescu, Baker Hughes, Sze-Fong Kho and Kwong-Tak Ha, Sarawak Shell Berhad
POSTER	GG	WIRELINE DIELECTRIC MEASUREMENTS MAKE A COMEBACK:APPLICATIONS IN OMAN FOR A NEW GENERATION DIELECTRIC LOG MEASUREMENT; Jonathan Mude, Shyam Arora, Petroleum Development Oman; Tom McDonald and John Edwards, Schlumberger
9:40-10:10AM		MORNING BREAK

Session 5: NUCLEAR

Co-Chairpersons: Zach John; Shauna Murphy

10:10AM	HH	ACCURACY OF PULSED NEUTRON CAPTURE SIGMA-DERIVED STEAM SATURATION AND CORRESPONDING REMAINING OIL IN STEAM FLOODS; A. Badruzzaman, Chevron Energy Technology Company; D. Barnes and J. Vujic, University of California
10:30AM	II	QUANTITATIVE INTERPRETATION OF PULSED NEUTRON CAPTURE LOGS IN THINLY-BEDDED FORMATIONS; Jordan G. Mimoun and Carlos Torres-Verdín, The University of Texas at Austin and William E. Preeg, Consultant
10:50AM	JJ	A NEW THREE-DETECTOR 1-11/16-INCH PULSED NEUTRON TOOL FOR UNCONVENTIONAL RESERVOIRS; Weijun Guo, Larry Jacobson, Jerome Truax, Daniel Dorffer and Shan Kwong, Halliburton
11:10AM	KK	FORMATION DENSITY MEASUREMENTS IN CASED WELLBORES FOR GAS SATURATION ANALYSIS; Ronald Plasek, Consultant; Laurent Mossé and James Hemingway, Schlumberger
11:30AM	LL	CARBON/OXYGEN LOGGING IN DIFFICULT CONDITIONS IN CABINDA ANGOLA; Clive A. Dodman, Chevron ETC and Dennis F. Wyatt Jr., Cabinda Gulf Oil Company
POSTER	MM	FORMATION ABSORPTION EFFECTS ON LWD PULSED THERMAL-NEUTRON POROSITY MEASUREMENTS; Loren P. Roberts and Margarete M. Kopal, Baker Hughes, Inc.
POSTER	NN	A NEW DRY CLAY TOTAL POROSITY MODEL FOR INTERPRETING PULSED NEUTRON CAPTURE LOGS IN SHALY SANDS; Gary A. Simpson, ConocoPhillips and Jerome A. Truax, Halliburton
POSTER	OO	APPLICATION OF NEW PULSED NEUTRON TECHNOLOGY IN THE LOW POROSITY, LOW SALINITY COOPER BASIN OF SOUTH AUSTRALIA; Roger Marsh, Rafay Ansari, David Chace, Baker Hughes and Keith Boyle, Santos
ALTERNATE	PP	A NEW GAS DETECTION METHOD FOR MULTIPHASE FLOWS USING ACOUSTIC RESONANCE SPECTROSCOPY IN A PIEZOELECTRIC CYLINDRICAL CAVITY; Chengxuan Che, Xiuming Wang, Dehua Chen, Jiansheng Cong, and Xiaomin Wang, State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences
11:50AM–1:20 PM		LUNCH / AWARDS BANQUET

Session 6: FORMATION EVALUATION / RESERVOIR DESCRIPTION METHODS

Co-Chairpersons: Christopher Skelt; Martin Kennedy

1:20PM	QQ	IMPROVED ESTIMATION OF MINERAL AND FLUID VOLUMETRIC CONCENTRATIONS IN THINLY-BEDDED AND INVADED FORMATIONS Zoya Heidari and Carlos Torres-Verdín, The University of Texas at Austin; William E. Preeg, Consultant
1:40PM	RR	STATE-OF-THE-ART PERMEABILITY DETERMINATION FROM WELL LOGS TO PREDICT DRAINAGE CAPILLARY WATER SATURATION IN CLASTIC ROCKS; Chiew F. Choo, Petronas
2:00PM	SS	APPLICATIONS AND DEPLOYMENTS OF THE REAL-TIME COMPACTION MONITORING SYSTEM; Jeremy Pearce, Fritz Rambow, Hans de Jongh, Dennis Dria, Shell; Travis Hall, Carl Stoesz, Brooks Childers and Tyrone Dominique, Baker Hughes
2:20PM	TT	OVERCOMING THE LIMITATIONS OF ROCK PHYSICS MODELLING IN POROUS ROCK WITH COMPLEX MINERALOGY; Jonathan Hall, DONG Energy E&P and Erick Alvarez, Senergy (G.B.) Limited
2:40PM	UU	UNVEILING INVISIBLE PAY: HOW MUCH DID YOU LEAVE BEHIND? Cherie Sims, Shell Development Australia Pty. Ltd
POSTER	VV	SHORT-TIME-SPAN PETROPHYSICAL AND FORMATION PROPERTIES VARIATION; John Priest, Elton Frost Jr. and Terrence Quinn, Baker Hughes, Inc.
POSTER	WW	IMPROVED FORMATION IMAGING OF THE INTERWELL SPACE WITH DEEP READING TECHNOLOGIES; Rudolfo Beer, Petrobras; Ajay Nalonnil, Sebastian Thum, Badarinadh Vissapragada, Schlumberger; Paulo Roberto, Alves Netto, Petrobras; Ping Zhang, David Alumbaugh, Laurence Reynolds, Mark McCallum and Kim Gunn Maver, Schlumberger

Session 7: POSTER SESSION / AFTERNOON BREAK

- POSTER E** **INVASION IN THE TIME DOMAIN FROM LWD RESISTIVITY: AN UNTAPPED WEALTH OF INFORMATION;**
Carlos Maeso, Schlumberger
- POSTER F** **RESPONSE SIMULATION AND THE APPLIED BASIC RESEARCH OF ARRAY LATERAL LOG IN RESERVOIRS WITH FRACTURE INDUCED ANISOTROPY;**
Deng Shao-gui, Fan Yi-ren, Li Zhi-qiang, Sun Qing-tao, Guo Yue-qin, School of Georesources & Information in China
University of Petroleum
- POSTER L** **SYNTHETIC AND FIELD EXAMPLES OF THE BAYESIAN STOCHASTIC INVERSION OF GAMMA-RAY, DENSITY, AND RESISTIVITY LOGS;**
Jorge A. Sanchez-Ramirez, BHP Billiton; David Wolf, Carlos Torres-Verdín, Alberto Mendoza, and Gong Li Wang, The University of Texas at Austin
- POSTER M** **PETROPHYSICAL USE OF BOREHOLE IMAGES, CHARACTERIZATION AND QUANTIFICATION OF RESERVOIR PERMEABILITY ANISOTROPY;**
Jean-Pierre Leduc, Laurie Butkovic, François Umbhauer and Véronique Munoz, Total SA
- POSTER N** **THE ROLE OF CHLORITE IN A LOW RESISTIVITY HYDROCARBON RESERVOIR;**
Joanne Tudge, Mike Lovell and Sarah Davies, Department of Geology, University of Leicester; Mike Millar, London
Petrophysical Society
- POSTER U** **IDENTIFICATION OF ELASTIC ANISOTROPY MECHANISMS FROM A JOINT INTERPRETATION OF BOREHOLE IMAGES AND SONIC LOGS;**
Romain Prioul and Jeroen Jocker, Schlumberger-Doll Research
- POSTER V** **A DISPERSION-BASED METHOD FOR MEASURING DIPOLE SHEAR ANISOTROPY;**
J. Walsh, S. Bose, B. K. Sinha, S. Sunaga, T. Endo, and H.P. Valero, Schlumberger
- POSTER W** **PHASE VELOCITY PROCESSING TECHNIQUE FOR MULTIPOLE ACOUSTIC LOGGING;**
Xiumei Zhang, State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences; Lixin Zhao, China Offshore Oil Corporation Ltd.; Hao Chen and Xiuming Wang, State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences
- POSTER X** **A NEW MONOCABLE CIRCUMFERENTIAL ACOUSTIC SCANNER TOOL (CAST-M) FOR CASED-HOLE AND OPENHOLE APPLICATIONS;**
Batakrishna Mandal and Alberto Quintero, Halliburton

- POSTER EE USING ELEMENTAL GEOCHEMISTRY TO IMPROVE SANDSTONE RESERVOIR CHARACTERIZATION: A CASE STUDY FROM THE UNAYZAH A INTERVAL OF SAUDI ARABIA;**
Robin MacDonald, Douglas Hardman, Ronald Sprague, Yacine Meridji, Witjaksono Mudjiono, Saudi Aramco; James Galford, Marvin Rourke, Halliburton; Michael Dix, Chemostrat and Michael Kelton, Core Laboratories
- POSTER FF CASE STUDY OF IMPROVED OIL-IN-PLACE DETERMINATION FROM PETROPHYSICAL EVALUATION OF RESISTIVITY ANISOTROPY LOGGING DATA IN A MALAYSIAN DEEPWATER TURBIDITE FIELD;**
Adrian Manescu, Baker Hughes, Sze-Fong Kho and Kwong-Tak Ha, Sarawak Shell Berhad
- POSTER GG WIRELINE DIELECTRIC MEASUREMENTS MAKE A COMEBACK: APPLICATIONS IN OMAN FOR A NEW GENERATION DIELECTRIC LOG MEASUREMENT;**
Jonathan Mude, Shyam Arora (PDO); Tom McDonald and John Edwards (SLB)
- POSTER MM FORMATION ABSORPTION EFFECTS ON LWD PULSED THERMAL-NEUTRON POROSITY MEASUREMENTS;**
Loren P. Roberts and Margarete M. Kopal, Baker Hughes, Inc
- POSTER NN A NEW DRY CLAY TOTAL POROSITY MODEL FOR INTERPRETING PULSED NEUTRON CAPTURE LOGS IN SHALY SANDS;**
Gary A. Simpson, ConocoPhillips and Jerome A. Truax, Halliburton
- POSTER OO APPLICATION OF NEW PULSED NEUTRON TECHNOLOGY IN THE LOW POROSITY, LOW SALINITY COOPER BASIN OF SOUTH AUSTRALIA;**
Roger Marsh, Rafay Ansari, David Chace, Baker Hughes and Keith Boyle, Santos
- POSTER VV SHORT-TIME-SPAN PETROPHYSICAL AND FORMATION PROPERTIES VARIATION;**
John Priest, Elton Frost Jr. and Terrence Quinn, Baker Hughes, Inc.
- POSTER WW IMPROVED FORMATION IMAGING OF THE INTERWELL SPACE WITH DEEP READING TECHNOLOGIES;**
Rudolfo Beer, Petrobras; Ajay Nalonnil, Sebastian Thum, Badarinadh Vissapragada, Schlumberger; Paulo Roberto, Alves Netto, Petrobras; Ping Zhang, David Alumbaugh, Laurence Reynolds, Mark McCallum and Kim Gunn Maver, Schlumberger
- POSTER CCC GEOSTEERING AND/OR RESERVOIR CHARACTERIZATION THE PROWESS OF NEW-GENERATION LWD TOOLS;**
Rudolfo Beer, Luiz Cláudio Terço Dias, Antonio Mainieri Vieira da Cunha, Márcio Roque Coutinho, Gustavo Henrique Schmitt, Petrobras; Jean Seydoux, Chris Morriss, Emmanuel Legendre, Jian Yang, Qiming Li, Augusto Carvalho da Silva, Paolo Ferraris, Eustaquio Barbosa and Ana Beatriz Felício Guedes, Schlumberger
- POSTER DDD DETERMINING THE OIL-WATER CONTACT WHILE DRILLING ABOVE THE TRANSITION ZONE IN LONG HORIZONTAL**

		WELLS: COMBINING 4D SEISMIC AND ADVANCED RESISTIVITY GEOSTEERING FOR IMPROVED WELLBORE PLACEMENT; Alf E. Berle, Arve K. Thorsen, Baker Hughes; Jakob A. Gjengedal, Statoil and Faram Ahmadhadi, Odin Petroleum
POSTER	EEE	MULTI-SENSOR GEOSTEERING; Bronwyn Calleja, Jennifer Market, Jason Pitcher and Chris Bilby, Halliburton Energy Services
POSTER	KKK	APPLICATION OF HIGH-RESOLUTION LWD BOREHOLE IMAGES FOR RESERVOIR CHARACTERIZATION IN TECTONICALLY AND GEOLOGICALLY COMPLEX RESERVOIRS; Ray Spicer, David Lund, Oil Search Limited; Michael Dautel, Roland Chemali, Marian Morys, William E. Hendricks and David Hinz, Halliburton
POSTER	LLL	SAMPLING, SMOOTHING AND BLOCKING. USING SCALE CHANGES TO IMPROVE DATA QUALITY; Stephen Tyson, School of Petroleum Engineering, UNSW and Paradigm, Jakarta
POSTER	MMM	IMPROVED METHODOLOGY FOR HIGH-RESOLUTION BED MINERALOGY FROM WIRELINE LOGS; Jean-Baptiste Peyaud and Adriaan Bal, Baker Hughes Geosciences; Noorul Shahida Binti Abdul Khalid and Mohd Amri Mohd Diah, Petroleum Engineering Department
POSTER	SSS	INTEGRATION OF MUD GAS ANALYSIS WITH CONVENTIONAL LOGS TO AID FLUID TYPING IN THINLY-BEDDED, ARGILLACEOUS CLASTIC RESERVOIRS; Yee Yung Liew, Ivan Fornasier and Axel Hartman, Brunei Shell Petroleum Co. Sdn. Bhd.
POSTER	TTT	A NEW METHOD FOR ESTIMATING FORMATION WATER <i>R_w</i> USING NMR LOGGING DATA; Songhua Chen and Gabor Hursan, Baker Hughes, Inc.
POSTER	ZZZ	ROCK TYPING ACROSS DISCIPLINES; Mark A. Knackstedt, Shane J. Latham, Adrian P. Sheppard, Rob M. Sok and Munish Kumar, Australian National University
POSTER	AAAA	HETEROGENEITY IN CARBONATE PETROPHYSICAL PROPERTIES: APPLICATION TO FLUID FLOW UNITS AND SAMPLING STRATEGIES; Peter Fitch, Sarah Davies, Mike Lovell, University of Leicester; Tim Pritchard and Clive Sirju, BG Group
POSTER	BBBB	ON THE ELECTRICAL PROPERTY OF LOW POROSITY AND LOW PERMEABILITY SANDSTONE RESERVOIRS WITH WELL-DEVELOPED SECONDARY PORE SPACE; Changxi Li, Research Institute of Petroleum Exploration and Development ; Liangmin Tang, Greatwall Drilling Company; Falong Hu, Cancan Zhou, Research Institute of Petroleum Exploration and Development; Yujiang Shi, Changqing Oilfield Company; Chengwen Xiao, Tarim Oilfield Company
POSTER	CCCC	CHARACTERIZING FRACTURED-VUGGY CARBONATE RESERVOIRS QUANTITATIVELY BASED ON THE INTEGRATION OF WELL AND SEISMIC;

- Chengwen Xiao, Tarim Oilfield Company; Ping Yang, Dongfang Geophysical Company; Xingli Liu, Tarim Oilfield Company;
- POSTER DDDD FORMATION EVALUATION IN THE BAKKEN COMPLEX USING LABORATORY CORE DATA AND ADVANCED LOGGING TECHNOLOGIES;**
Sandeep Ramakrishna, Ron Balliet, Danny Miller, Shriram Sarvotham, Halliburton and Dick Merkel, Newfield Exploration Company
- POSTER JJJJ APPLICATIONS OF TRIPLE NEUTRON POROSITY MEASUREMENTS IN GAS SHALES AND SHALY SANDS;**
Paul Boonen, Zhipeng Liu, Libai Xu, Cornelis Huiszoon Smith-PathFinder and Ward Schultz, Consultant

Session 8: NMR / GEOSTEERING

Co-Chairpersons: Chanh Cao Minh; Jeff Roche

4:00PM	XX	FAST BOUND-FLUID LOGGING – MORE THAN JUST FAST NMR LOGGING; Ridvan Akkurt, Douglas L. Hardman, George Saghiyyah, Stephen G. Cheshire, Saudi Aramco; Pablo J. Saldungaray, Steve F. Crary, Chanh C. Minh and Jack LaVigne, Schlumberger
4:20PM	YY	INVERSION ALONG THE DEPTH DIMENSION TO ENHANCE THE CONTINUITY OF MULTI-DIMENSIONAL NMR LOGS; Boqin Sun, Keh-Jim Dunn, and Simon Clinch, Chevron
4:40PM	ZZ	USING NUCLEAR MAGNETIC RESONANCE DATA FOR GRAIN SIZE ESTIMATION AND EXPANDABLE SAND SCREEN DESIGN; Tim Conroy, Woodside Energy Ltd.; Kapil Seth, Inpex; Peter Miklavs, Schlumberger and Yajna Mahabeer, Woodside Energy Ltd.
5:00PM	AAA	EVALUATION OF PARAMETER UNCERTAINTY UTILIZING RESOLUTION ANALYSIS IN RESERVOIR NAVIGATION INCREASES THE DEGREE OF ACCURACY AND CONFIDENCE IN WELL-BORE PLACEMENT; G. Nardi, S. Martakov, M. Nikitenko and M. Rabinovich, Baker Hughes
5:20PM	BBB	DETERMINATION OF GAS-OIL RATIO AND LIVE-OIL VISCOSITY FROM NMR LOG INCORPORATING OIL-BASED MUD FILTRATE INVASION; Jiansheng (Jason) Chen (Marathon Oil Co.), Songhua Chen, Edmund Smith, Wei Shao, and David Itter, Baker Hughes
POSTER	CCC	GEOSTEERING AND/OR RESERVOIR CHARACTERIZATION THE PROWESS OF NEW-GENERATION LWD TOOLS; Rudolfo Beer, Luiz Cláudio Terço Dias, Antonio Mainieri Vieira da Cunha, Márcio Roque Coutinho, Gustavo Henrique Schmitt, Petrobras; Jean Seydoux, Chris Morriss, Emmanuel Legendre, Jian Yang, Qiming Li, Augusto Carvalho da Silva, Paolo Ferraris, Eustaquio Barbosa and Ana Beatriz Felício Guedes, Schlumberger
POSTER	DDD	DETERMINING THE OIL-WATER CONTACT WHILE DRILLING ABOVE THE TRANSITION ZONE IN LONG HORIZONTAL WELLS - COMBINING 4D SEISMIC AND ADVANCED RESISTIVITY GEOSTEERING FOR IMPROVED WELLBORE PLACEMENT; Alf E. Berle, Arve K. Thorsen, Baker Hughes; Jakob A. Gjengedal, Statoil and Faram Ahmadhadi, Odin Petroleum
POSTER	EEE	MULTI-SENSOR GEOSTEERING; Bronwyn Calleja, Jennifer Market, Jason Pitcher and Chris Bilby, Halliburton Energy Services

Session 9: GEOLOGICAL APPLICATIONS/BOREHOLE IMAGING

Co-Chairpersons: Stephen Prensky; Tim Borbas

8:00AM	FFF	IMPROVED BOREHOLE IMAGE DIP CALCULATION IN IRREGULARLY SHAPED AND CURVED BOREHOLES IN HIGH ANGLE AND HORIZONTAL WELLS; Zhipeng Liu, Paul Boonen, SMITH-PathFinder; Steve Munsell and Jason Lagrera, EOG Resources
8:20AM	GGG	AN INDEPENDENT COMPARISON OF BOREHOLE IMAGING TOOLS AND THEIR GEOLOGICAL INTERPRETABILITY; L.T Bourke and D.J. Prosser, Task Geoscience (Asia) Pty Ltd.
8:40AM	HHH	USING BOREHOLE IMAGES TO IMPROVE PERMEABILITY ESTIMATES; Nicholas Harvey, Target Oilfield Services and Dean Norcross, Weatherford International
9:00AM	III	ENHANCEMENT OF GLACIAL RESERVOIR MODELING BY MICRORESISTIVITY IMAGE: A CASE STUDY FROM OMAN; Da-Li Wang, Schlumberger and Mohammed Helmy, Petroleum Development Oman
9:20AM	JJJ	IMAGE PETROPHYSICS, A NEW APPROACH TO RESERVOIR CHARACTERIZATION; Manfred Frass, Weatherford Intl. and Nicholas Harvey, Target Oilfield Services Pty Ltd
POSTER	KKK	APPLICATION OF HIGH-RESOLUTION LWD BOREHOLE IMAGES FOR RESERVOIR CHARACTERIZATION IN TECTONICALLY AND GEOLOGICALLY COMPLEX RESERVOIRS; Ray Spicer, David Lund, Oil Search Limited; Michael Dautel, Roland Chemali, Marian Morys, William E. Hendricks and David Hinz, Halliburton
POSTER	LLL	IMPROVED METHODOLOGY FOR HIGH-RESOLUTION BED MINERALOGY FROM WIRELINE LOGS; Jean-Baptiste Peyaud and Adriaan Bal, Baker Hughes Geosciences; Noorul Shahida Binti Abdul Khalid and Mohd Amri Mohd Diah, Petroleum Engineering Department
ALTERNATE	MMM	SAMPLING, SMOOTHING AND BLOCKING. USING SCALE CHANGES TO IMPROVE DATA QUALITY; Stephen Tyson, School of Petroleum Engineering, UNSW and Paradigm, Jakarta

Session 10: FORMATION TESTING / SAMPLING / DOWNHOLE FLUID ANALYSIS

Co-Chairpersons: Andrew Buffin; Mark Locke

10:20AM	NNN	LINEAR PRESSURE GRADIENTS – MYTH OR REALITY? Mohamed Hashem, Hani Elshahawi and Birol Dindoruk, Shell International E&P
10:40AM	OOO	EFFECTS OF HIGHLY LAMINATED RESERVOIRS ON THE PERFORMANCE OF WIRELINE AND WHILE-DRILLING FORMATION-TESTER SAMPLING WITH OVAL, FOCUSED, AND CONVENTIONAL PROBE TYPES; Hamid Beik, The University of Texas; Mark Proett, Halliburton; Carlos Torres-Verdín, The University of Texas; Tony van Zuilekom, Bob Engelman, Halliburton; Kamy Sepehrnoori, The University of Texas
11:00AM	PPP	IN-SITU VISCOSITY MEASUREMENTS FROM VIBRATING WIRE SENSOR DEVELOPED FOR WIRELINE FORMATION TESTING; Sophie Godefroy, Michael O'Keefe, Anthony R. H. Goodwin, Kai Hsu, Go Fujisawa and Yoko Morikami, Schlumberger
11:20AM	QQQ	FORMATION TESTING GOES BACK TO THE FUTURE; Mark Proett, David Welshans, Kris Sherrill, Jim Wilson, Jerry House, Ramez Shokeir and Tommy Solbakk, Sperry Drilling Services, Halliburton
11:40AM	RRR	DOWNHOLE FLUID ANALYSIS COUPLED WITH NOVEL ASPHALTENE SCIENCE FOR RESERVOIR EVALUATION; Oliver C. Mullins, Julian Y. Zuo, Denise E. Freed, Schlumberger Oilfield Services; Hani Elshahawi, Shell International Exploration and Production Inc.; Myrt E. Cribbs, Chevron North America ; Vinay K. Mishra and Adriaan Gisolf, Schlumberger Oilfield Services
POSTER	SSS	INTEGRATION OF MUD GAS ANALYSIS WITH CONVENTIONAL LOGS TO AID FLUID TYPING IN THINLY-BEDDED, ARGILLACEOUS CLASTIC RESERVOIRS; Yee Yung Liew, Ivan Fornasier and Axel Hartman, Brunei Shell Petroleum Co. Sdn. Bhd.
POSTER	TTT	A NEW METHOD FOR ESTIMATING FORMATION WATER R_w USING NMR LOGGING DATA; Songhua Chen and Gabor Hursan, Baker Hughes, Inc.
12:00-1:40PM		LUNCH

Session 11: PETROPHYSICAL PROPERTIES / CARBONATE EVALUATION

Co-Chairpersons: Ollivier Faivre; Jeroen Brantjes

- 1:40PM** **UUU** **THE INFLUENCE OF PYRITE ON ROCK ELECTRICAL PROPERTIES: A CASE STUDY FROM NW AUSTRALIAN GAS RESERVOIRS;**
M. Ben Clennell, Matthew Josh, Lionel Esteban, CSIRO Earth Science and Resource Engineering; David Hill, Chris Woods, Brendan McMullan, Woodside Energy Ltd.; Claudio Delle Piane, Susanne Schmid and Michael Verrall, CSIRO Earth Science and Resource Engineering
- 2:00PM** **VVV** **EFFECTIVE POROSITY: A DEFENSIBLE DEFINITION FOR SHALY SANDS;**
Roberto Peveraro, Petrocomp Consulting, Ltd. and E. C. Thomas, Bayou Petrophysics
- 2:20PM** **WWW** **SOLVING FORMATION EVALUATION CHALLENGES IN A POTASSIUM FORMATE MUD ENVIRONMENT – A KUWAIT CASE STUDY OF USING NEUTRON INDUCED GAMMA RAY SPECTROSCOPY DATA IN A COMPLEX CARBONATE RESERVOIR;**
Djisan Kho, Jim Grau, Schlumberger; Badruzzaman Khan, Heyam Ammar, Ealian H. Al-Anzi and Mihira Acharya, Kuwait Oil Company
- 2:40PM** **XXX** **DETERMINING FORMATION WATER SALINITY IN THE OIL LEG USING CORES AND LOGS;**
Simon Clinch, Wei Wei, Chevron; Pat Lasswell, Weatherford Labs and John L. Shafer, Consultant
- 3:00PM** **YYY** **VARIATIONS IN THE ARCHIE'S EXPONENT: PROBING WETTABILITY AND LOW S_w EFFECTS;**
Munish Kumar, Tim J. Senden, Adrian P. Sheppard, Australian National University; Christoph H. Arns, University of New South Wales and Mark A. Knackstedt, Australian National University
- POSTER** **ZZZ** **ROCK TYPING ACROSS DISCIPLINES;**
Mark A. Knackstedt, Shane J. Latham, Adrian P. Sheppard, Rob M. Sok and Munish Kumar, Australian National University
- POSTER** **AAAA** **HETEROGENEITY IN CARBONATE PETROPHYSICAL PROPERTIES: APPLICATION TO FLUID FLOW UNITS AND SAMPLING STRATEGIES;**
Peter Fitch, Sarah Davies, Mike Lovell, University of Leicester; Tim Pritchard and Clive Sirju, BG Group
- POSTER** **BBBB** **ON THE ELECTRICAL PROPERTY OF LOW POROSITY AND LOW PERMEABILITY SANDSTONE RESERVOIRS WITH WELL-DEVELOPED SECONDARY PORE SPACE;**
Changxi Li, Research Institute of Petroleum Exploration and Development ; Liangmin Tang, Greatwall Drilling Company; Falong Hu, Cancan Zhou, Research Institute of Petroleum Exploration and Development; Yujiang Shi, Changqing Oilfield Company; Chengwen Xiao, Tarim Oilfield Company
- POSTER** **CCCC** **CHARACTERIZING FRACTURED-VUGGY CARBONATE RESERVOIRS QUANTITATIVELY BASED ON THE INTEGRATION OF WELL AND SEISMIC;**
Chengwen Xiao, Tarim Oilfield Company; Ping Yang, Dongfang Geophysical Company; Xingli Liu, Tarim Oilfield Company; Guangjian Dan, Dongfang Geophysical Company; Xia Li, Riped and Chengsen Zhang, Tarim Oilfield Company
- POSTER** **DDDD** **FORMATION EVALUATION IN THE BAKKEN COMPLEX USING LABORATORY CORE DATA AND ADVANCED LOGGING TECHNOLOGIES;**
Sandeep Ramakrishna, Ron Balliet, Danny Miller, Shriram Sarvotham, Halliburton and Dick Merkel, Newfield Exploration Company
- 3:20-4:00PM** **AFTERNOON BREAK**

Session 12: UNCONVENTIONAL RESOURCES

Co-Chairpersons: Ridvan Akkurt; Paul Pillai

4:00PM	EEEE	PETROPHYSICAL ANALYSIS OF THE GREEN RIVER FORMATION, SOUTHWESTERN COLORADO: A CASE STUDY IN OIL SHALE FORMATION EVALUATION; Christopher Skelt, Chevron Energy Technology Company
4:20PM	FFFF	APPLICATION OF NMR LOGS IN LOW PERMEABILITY SANDSTONES: A CASE STUDY OF SICHUAN BASIN IN CHINA; Liang Xiao, State Key Laboratory of Petroleum Resource and Prospecting; Zhiqiang Mao, China University of Petroleum; Zhaonian Wang, Yan Jin, PetroChina; Wen Zhuang, Key Laboratory of Earth Prospecting and Information Technology
4:40PM	GGGG	PULSED NEUTRON LOGGING IN TIGHT GAS SAND RESERVOIRS: A COST EFFECTIVE EVALUATION APPROACH; Pingjun Guo, ExxonMobil Production Company; Dale Fitz and Russell Spears, ExxonMobil Exploration Company
5:00PM	HHHH	PETROPHYSICAL EVALUATION OF COMPLEX GAS RESERVOIRS IN NORTH-WEST CHINA; Wendong Lu, Doug Murray, Yuxi Wang, Wei Li, Lei Yang, Olivier Desport, Schlumberger; Chengwen Xiao, Chinese National Petroleum Company and Guo Wei, SinoChem Corporation
5:20PM	IIII	A NOVEL APPROACH TO SHALE-GAS EVALUATION USING A CASED-HOLE PULSED NEUTRON TOOL; Dan Buller, Suparman FNU, Shan Kwong, Halliburton; David Spain and Mike Miller, BP America
POSTER	JJJJ	APPLICATIONS OF TRIPLE NEUTRON POROSITY MEASUREMENTS IN GAS SHALES AND SHALY SANDS; Paul Boonen, Zhipeng Liu, Libai Xu, Cornelis Huiszoon Smith-PathFinder and Ward Schultz, Consultant
ALTERNATE	KKKK	APPLICATION OF NUCLEAR MAGNETIC RESONANCE MEASUREMENTS IN THE EVALUATION OF TWO COAL SEAM GAS WELLS IN THE PEDIRKA BASIN; Adrian Manescu, Baker Hughes and Stewart Bayford, Central Petroleum Limited
ALTERNATE	LLLL	RELATIVE PERMEABILITY IN TIGHT GAS SANDSTONE RESERVOIRS - THE "PERMEABILITY JAIL" MODEL; Robert M. Cluff, The Discovery Group Inc. and Alan P. Byrnes, Kansas Geological Survey at the University of Kansas
5:40PM		CLOSING REMARKS and DOOR PRIZE