### Day 1 – Monday, 27th November, 2006

#### Opening Session (Plenary Theater)

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<tr>
<th>Time</th>
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<td>08:00</td>
<td>Registration</td>
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<tr>
<td>08:50</td>
<td>Arrival of Invited Guests</td>
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<td>09:00</td>
<td>Welcoming Address by Associate Professor Dr. Lee Chai Peng, President of the Geological Society of Malaysia</td>
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<td>09:10</td>
<td>Opening Address by Yg Bahagia Encik Abdullah Karim (Vice President, E&amp;P Business, PETRONAS)</td>
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<tr>
<td>09:30</td>
<td>Official Launching of PGCE 2006</td>
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| 09:45  | **Keynote Address I:** Human Capital - Leveraging Industry Expertise for Future Growth  
|        | Tim Probert, Senior Vice President, Drilling, Evaluation and Digital Solutions Division, Halliburton |
| 10:20  | Coffee Break (Sponsored by Murphy Oil)                    |
Session 1 (Plenary Theater)

Session Chairmen:  **Effendy Cheng Abdullah**  General Manager, PRAM, Petronas

(Presenters in boldface)

**10:45 Technical Keynote Paper 1:**

Dr Peter M. Barber (Director, Isis Petroleum Consultants)

**11:20 Paper 1:** *Illumination of Vietnam basement Fractures from 3D Seismic – A Methodology*

Vincent W.T. Kong (Petronas Carigali), Dr Nguyen Huy Ngoc(Petronas Carigali Vietnam), Jimmy C.S. Ting (Fugro-Jason) and Amri b. Amdan(Fugro-Jason)

**11:45 Paper 2:** *The analysis of Controlled Source Electromagnetic data for prospect evaluation in Block E, Sarawak, Malaysia*

Jonny Guddingsmo, Peter Van der Sman, John Voon, Matthew Choo and Kok, Yip-Cheong (Sarawak Shell Bhd.)

**12:10 Paper 3:** *A New 3D Seismic Stratigraphic Methodology Applied to Turbidite Channel Systems*

Pierre Le Guern, Bérengère Savary, Hilde Grude Borgos, Geir Vaaland Dahl, Erik Monsen, Lars Sonneland, Andreia Regina Dias Elias, José Fernando Rosalba (Schlumberger Stavanger Research)

**12:35 Paper 4:** *Improving Submarine Fan and Channel Interpretation using 3D Seismic Megasurveys*

Shane Westlake (Senior Geophysicist, PGS Marine Geophysical)

**13:00 Lunch (Sponsored by Petronas)**

Parallel Session 1 (Rooms 304/305)

Session Chairmen:  **Graeme Eastwood**  Business Manager SE Asia, Fugro Jason Sdn. Bhd.
**David Flett**  Managing Director Asia Pacific, PARADIGM Geophysical

**11:00 Paper 25:** *Optical Sensor and Accelerometer Revolution for Seismic Monitoring and Acquisition*

Jan W. Schoolmeesters, Steve Maas and Rune Tenghamm (PGS Marine Geophysical)

**11:25 Paper 26:** *Lithology and Fluid Uncertainties from Deterministic Inversion*

Mark S. Sams (Fugro-Jason)

**11:50 Paper 27:** *Resolving fault shadow problem by Fault Constrained Tomography*

Sergey Birdus (Veritas Geophysical)

**12:15 Paper 28:** *Towed-Streamer Multi Azimuth*

Terry Allen, C. Page, E. Fromyr, R.V. Borselen (PGS Geophysical/BP), J. Keggin, W. Rietveld and T. Manning (BP)

**12:40 Paper 29:** *Improving Seismic Discontinuity Attributes*

Arthur Barnes (Paradigm Geophysical)
Session 2 (Plenary Theater)

Session Chairmen:  A. Samad Nordin General Manager, Exploration Strategy, PCSB
                  Michael Foley  Exploration Manager SE Asia, Sarawak Shell Bhd.

(Presenters in boldface)
14:00  Technical Keynote Paper 2: Formula for Success: The Role of New Information in Creating Asset Value
      Stephen Pickering (Project Manager, Geophysics Domain Career Leader, Western Geco)

      Christopher A-L Jackson (Imperial College)

14:50  Paper 6: Hydrocarbon Prospectivity of East Central Luconia Carbonates, Sarawak
      Hamdan Mohamad, Nur Kartini Mansur, W Zaizuri W Embong (Petroleum Management Unit, PETRONAS)

15:15  Paper 7: Fractured Basement Plays, Penyu Basin, Malaysia
      F. Fanani, B. Boyce, R. Wong, A. Fahrul and Alwyn C. (Petroleum Management Unit, PETRONAS)

15:40  Tea Break (Sponsored by Nippon Oil)

Parallel Session 2 (Rooms 304/305)

Session Chairmen:  M. Izham Ismail  Exploration Manager, Exxon Mobil E&P Inc.
                  Azmi Ismail  Managing Director, CGG Asia Pacific Sdn. Bhd.

14:00  Paper 30: Application of an Integrated Approach for the Characterization of a Naturally Fractured Reservoir in the West Siberian Basement
      Abdel M Zellou (Prism Seismic), O. Pinous (Schlumberger), E.P.Sokolov (Russneft) and Gary Robinson (Prism Seismic)

14:25  Paper 31: Spatial and Temporal Variations in Reservoir Geomechanics that Impact Production, EOR, CO2 Sequestration Operations and Field-Wide Well Placement; Case Studies from Southeast Asia
      David Castillo, Juergen Streit, Adrian White and Andrew Brehm (GeoMechanics International)

14:50  Paper 32: Jerneh Full Field Studies – An Integrated Approach to the Identification of New Development Opportunities
      Fariz Fahmi (ExxonMobil Exploration & Production Malaysia Inc.)

      M.S. Howard (BHP Billiton) and N. Moldoveanu (Western Geco). (Presented by Mark M. Stanley, BHP Billiton)
Session 3 (Plenary Theater)

Session Chairmen:  Andy Lozano  President, EMGS Asia Pacific Sdn. Bhd.  
Mohd. Reza Lasman  Murphy Oil Co. Ltd.

(Presenters in boldface)

16:00  Paper 8:  Soft-sediment Deformation and Hydraulic Fracturing of Deep-water Sediments: Examples from the West Crocker Formation (Oligocene-Lower Miocene), Sabah, Malaysia  
Mazlan Madon (Group Research, Research and Technology Division, PETRONAS), Abdul Hadi Abd Rahman and Mohd Nizam Abu Bakar (USM)

16:25  Paper 9:  3D Seismic-based Analysis of the Sumandak Complex: Significance to the Sediment Deposition in Offshore NW Sabah  
Azli Abu Bakar (Petronas Carigali), Christopher Jackson and Howard Johnson (Imperial College)

Teguh Prasetyo and Andy Firth (Murphy Sarawak)

17:15  Paper 11:  The Role of Sedimentology in Accurately Characterising Newly Discovered Reservoirs  
Duncan Barr, Tony Kennaird (Core Laboratories Australia)

18:15  Icebreaker (sponsored by Hess Oil and Gas)

Parallel Session 3 (Rooms 304/305)

Session Chairmen:  Cathal Daly  Exploration Manager SE Asia, Hess Oil and Gas Sdn. Bhd.  
Desmond Kong  Regional General Manager, Landmark Graphics (M) Sdn Bhd

16:00  Paper 34:  Integrated Approach to Building a Basin Model for the Red Series, South Caspian Basin  
Othman Ali Mahmud, Peter Abolins, Wim Kampscuur, Liau Min Hoe and Carlo Sanders

Anuar B.A. Aziz, S.M. Yu, A Rahman B. M. Eusoff (Petronas Carigali)

16:50  Paper 36:  Orogeny in Action: Tectonic Evolution and Stratigraphy of Sabah, Seismic and Outcrop Evidence  
Allagu Balaguru (Petronas Carigali)
Day 2 – Tuesday, 28th November, 2006
Session 4 (Plenary Theater)

Session Chairmen:  Jaizan Hardi M. Jais  Senior Manager, Data Management & Capability,  
                   PMU, Petronas  
Dimyati Mohamed  Program Head, Integrated Seismic Technology, Group Research, and Technology Division, Petronas

(Presenters in boldface)

08:00  Paper 12:  The Sequence Biostratigraphy and Chronostratigraphy of the Malay Basin  
                  Robert J. Morley (Palynova) and Shamsuddin Jirin (Group Research, Research and Technology Division, PETRONAS)

08:30  Paper 13:  A New Chronosequence Stratigraphy for the Tertiary of Offshore Sabah and Sarawak, Northwest Borneo, Malaysia  
                  William N. Krebs  (Petronas Carigali)

08:55  Paper 14:  Chronostratigraphic Chart of the Sedimentary Basins of Malaysia  
                  Robert Wong Hin Fatt, Barry Boyce, Dr. William Krebs, Md. Yazid Mansor (Petronas), Dr. Peter Barber (ISIS), Dr. Robert J. Morley (Palynova), Dr. Shamsuddin B Jirim, Dr. Jaizan Hardi Mohamed Jais, Dr. M Jamaal B Hoesni (Petronas), Robert Kirk, Gregory Meldrum and Martin Pott (ISIS), Mazlan B. HJ Madon, Mansor Bin Ahmad (Petronas)

09:20  Paper 15:  Facies Successions and Depositional Elements within the Oligocene-Miocene, Crocker Submarine Fan System, NW Borneo, Sabah, Malaysia  
                  A. Adli Zakaria, H.D. Johnson, C.A.L. Jackson (Imperial College), F. Tongkukl (UMS), P.D. Crevello (Petrex Asia) and M.B. Madon (Group Research, Research and Technology Division, PETRONAS)

09:45  Paper 16:  Tectonics, Seismic and Sequence Stratigraphy of Melut Rift Basin, Sudan  
                  Ahmed El-Tayeb  (Petrodar Operating Co, Sudan) and Othman Ali Mahmud (XTG, Petronas Carigali)

10:10  Coffee Break (Sponsored by Efogen)
Session 5 (Plenary Theater)

Session Chairmen:  
C.Y. McCants  Senior Executive Geologist, Petrofac Malaysia  

(Presenters in boldface)

10:30  Keynote Address II: PCSB Exploration Journey: Key Accomplishments to date and Future Aspirations
Md. Yazid Mansor, Senior General Manager, Exploration Division, Petronas Carigali Sdn. Bhd.

11:05  Paper 17: Marginal Field Development Strategy: Malaysia PM304 Cendor Field Success Story

11:30  Paper 18: Delivering Time-lapse Seismic over a Carbonate Field, Offshore Sarawak, Malaysia
Salviana Dahlan, Khaw Lay Hong, Kok Yip Cheong, Lee Bor Seng, Salva Seen, Wong Kah Luk (Sarawak Shell Berhad)

11:55  Paper 19: Seismic Attributes: Adding a New Dimension in Prospect Evaluation & Reservoir Delineation
Dr Deva Ghosh (Petronas Carigali)

12:20  Paper 20: 3D AVO Volume Visualization in Identifying HC Leads in Offshore Sarawak
M Firdaus A Halim, W Ismail W Yusoff, MK Sengupta, Shaidin Arshad and A Riza Ghazali (Group Research, Research and Technology Division, PETRONAS)

12:50  Lunch (sponsored by Sarawak Shell Bhd.)

Parallel Session 5 (Rooms 304/305)

Session Chairmen:  
Nordin Ramli  Senior Manager, PRAM, PMU, Petronas  
Sami Khan  VP Regional Marketing, Veritas Geophysical (Asia Pacific) Pte Ltd

11:00  Paper 37: Beyond Kirchhoff: New Technologies for Improved Seismic Imaging
Graham Hodgkiss and James Sun (Veritas Geophysical)

Michel Claverie, Hisham Azam, Richard Leech(Schlumberger) and Graeme Van Dort (Murphy Oil)

Alizadeh B., Hosseini S. H. (Shahid Chamran University, Iran) and Ghalavand H. (National Iranian South Oil Company)

12:15  Paper 40: Reservoir Properties and Depositional Environment of the Group M Cored Interval in Ledang Tengah, Block Pm309, Malay Basin
Fazira Zahari, Nik M Ruzaima Akhmal, A Rahman B M Eusoff, Prama Arta, Yu S M (Petronas Carigali), M Rapi M Som (Group Research, Research and Technology Division, PETRONAS)
Session 6 (Plenary Theater)

Session Chairmen: Robert Wong  Senior Manager, Basin Studies, PRAM, Petronas
Kevin Robinson  Country Manager, NEWFIELD Inc.

(Presenters in boldface)

14:00  Technical Keynote Paper III: Global Carbonate Perspectives – Past, Present and Future Scenarios
Mohammad Yamin Ali (Custodian Geoscientist (Sedimentology), Subsurface Technology Group Research, Research & Technology Division, PETRONAS)

14:35  Paper 21: Correlation of Discontinuous Deltaic Sands using Well-Log Facies and Sequence Stratigraphy (Lower Miocene, Cycle III, Offshore Balingian Province, Sarawak)
M.C.Budding (TechnoRada Sdn. Bhd.)

15:00  Paper 22: Integrating Biostratigraphy with Seismic for Sequence Stratigraphic Interpretation in the Malay Basin
Shamsudin Jirin (Group Research, Research and Technology Division, PETRONAS) and Robert J Morley (PALYNOVA)

Cathles Lawrence M., III (Cornell), and Schoell Martin (GCI)

15:50  Paper 24: Surface geochemistry as an exploration tool in frontier areas Case study from offshore Brunei
Malvin Bjorøy (Surface Geochemical Services AS) and Ian L. Ferriday (Geolab Nor AS)

16:15  Closing Remarks and Closing of the Conference
Salahuddin Salleh (Chairman, Organising Committee, PGCE 2006)

16:30  Tea (Sponsored by Schlumberger)

Poster 2: Submarine Mass-Transport Deposits In The Semantan Formation (Triassic), Central Peninsular Malaysia
Mazlan Madon (Group Research, Research and Technology Division, PETRONAS)

Poster 3: Seismic Rock Physics of the Miocene Carbonates: A Case Study from the Central Luconia Province, Sarawak
Mohammad Yamin Ali (Group Research, Research and Technology Division, PETRONAS), Sigit Sukmono, Bagus Endar (Institut Teknologi Bandung), M. Razali Che Kob, Wan Ismail Wan Yusof and Rosmah A. Rahman (Group Research, Research and Technology Division, PETRONAS)

Poster 4: Regional Controls on Carbonate Developments in Central Luconia, Offshore Sarawak
M. Razali Che Kob & M. Yamin Ali (Group Research, Research and Technology Division, PETRONAS)

Poster 5: Lithology Discrimination through Velocity Analysis – a Solution Trough Method
M Hafizal Mad Zahir, Ahmad Riza Ghazali, M Faizal Abdul Rahim, A Kamal Azmi, M Taufiq Yusof and Nor Samsiah Sani (Group Research, Research and Technology Division, PETRONAS)

Poster 6: Drilling of Deep-Seated Reservoir in High Pressure Regime in the north of Malay Basin
Hamdan Mohamad, M Redzuan Tajudin, Nor Azlina Jaini and Zuliyana Ibrahim (Petroleum Management Unit, Petronas)

Poster 7: The West Crocker Formation Outcrop at Kingfisher-Sulaman, Kota Kinabalu: Sedimentary Features and Facies Succession
Mazlan Madon (Group Research, Research and Technology Division, PETRONAS), Abdul Hadi Abd Rahman and Mohd Nizam Abu Bakar (Universiti Sains Malaysia)

Poster 8: Low CO₂ Potential Hydrocarbon Block Sk 301, Rajang Delta, Offshore Sarawak
Theresia H Kuswardhany (Petroleum Management Unit, Petronas)

Poster 9: Sedimentary Facies and Depositional Framework of the Tertiary West Crocker Formation around Kota Kinabalu, Sabah
Nizam A. Bakar, Abdul Hadi Abd Rahman (Universiti Sains Malaysia) and Mazlan Madon (Group Research, Research and Technology Division, PETRONAS)

Poster 10: Controlling Factors in Clastic Reservoir Diagenesis Offshore Bintulu – Sarawak Basin
Teguh Prasetyo and Andy Firth (Murphy Sarawak)

Poster 11: Modeling Seismic Amplitude Attenuation – Q-absorption perspective
Ahmad Riza Ghazali and M Faizal A Rahim (Group Research, Research and Technology Division, PETRONAS)

Poster 12: Chronostratigraphic Chart of the Sedimentary Basins of Malaysia
Robert Wong Hin Fatt, Barry Boyce, Dr. William Krebs, Md. Yazid Mansor (Petronas), Dr. Peter Barber (ISIS), Dr. Robert J. Morley (Palynova), Dr. Shamsudin B Jirim, Dr. Jaizan Hardi Mohamed Jais, Dr. M Jamaal B Hoesni (Petronas), Robert Kirk, Gregory Meldrum and Martin Pott (ISIS)
Poster 13: Modeling Velocity Heterogeneities for Seismic Imaging and Depth Conversion  
M Faizal A Rahim and Ahmad Riza Ghazali (Group Research, Research and Technology Division, PETRONAS)

Poster 14: Malay Basin CO₂ Predictability Using Seal Integrity and Equivalent Grain Size  
Kazuo Nakayama, Arata Katoh, Toshihiro Takahashi (JGI Inc.), Mansor Ahmad, Robert Wong Hin Fatt, Barry James Sinon Boyce, Norhafizah Mohamed (PMU, Petronas) and Zainol Affendi Abu Bakar (Group Research, Research and Technology Division, PETRONAS)

Poster 15: Discovery Well PC4-1: An Integrated Image Log, Acoustic Waveform, NMR, Reservoir Pressure, Sampling and Testing, and Petrophysics Study  
K. Zainon (PMU, Petronas), A.A. Bal, M. Altunbay, J. Burge, R. Din, W. Ong, D. Pantic and J. Wadsworth (Baker-Atlas KL)

Poster 16: Pitfalls in the Application of Sequence Stratigraphy to Well-Log Correlation. Comparative Outcrop Studies of Reservoir Analogues in Sarawak  
Muhammad Pedro Barbeito and Marc Budding (TechnoRada)

Poster 17: Hydrocarbon Generation and Inorganic Modeling of Carbon Dioxide Generation and Expulsion in the Malay Basin, Peninsular Malaysia  
Azlina Anuar, M. Jamaal Hoesni (Petronas Group Research), Mansor Ahmad2 and Norhafizah Mohamed (PMU, Petronas)

Poster 18: Calculating Volume Fraction of Clay, Silt and Sand from NMR Logs  
Michel Claverie, Richard Leech (Schlumberger), Olumide Akinsanmi and Paul Pillai (Shell)

Poster 19: Formation Of CO2 in Sedimentary Basins and Assessment of CO2 Risk in Gas Prospects  
Cathles Lawrence M., III (Cornell), and Schoell Martin (GCI)

Poster 20: Soft-sediment Deformation and Hydraulic Fracturing of Deep-water Sediments: Examples from the West Crocker Formation (Oligocene-Lower Miocene), Sabah, Malaysia  
Mazlan Madon (Group Research, Research and Technology Division, PETRONAS), Abdul Hadi Abd Rahman and Mohd Nizam Abu Bakar (USM)