



# WARTA GEOLOGI

Newsletter of the Geological Society of Malaysia

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**PERSATUAN GEOLOGI MALAYSIA**  
(GEOLOGICAL SOCIETY OF MALAYSIA)

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The Society was founded in 1967 with the aim of promoting the advancement of earth sciences particularly in Malaysia and the Southeast Asian region.

The Society has a membership of about 600 earth scientists interested in Malaysia and other Southeast Asian regions. The membership is worldwide in distribution.

The Warta Geologi (Newsletter of the Geological Society of Malaysia) is published bimonthly by the Geological Society of Malaysia. The Warta Geologi is available free to members of the Geological Society of Malaysia.

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## PERTEMUAN PERSATUAN (Meetings of the Society)

Persatuan Geologi  
Malaysia

Petroleum Geology  
CONFERENCE & EXHIBITION  
15 - 16 DECEMBER 2004  
HOTEL ISTANA, KUALA LUMPUR, MALAYSIA

**2004**

**Petroleum Geology Conference & Exhibition  
2004**

**Hotel Istana, Kuala Lumpur**

**15 - 16 December 2004**

### Report

Assalamualaikum Warahmatullah.

Firstly, I would like to extend a big thank you to everyone for showing their full support throughout the event.

The tremendous work put in by the Society to organise this Petroleum Geology Conference & Exhibition (PGCE) has been well received. The estimated number of people registered this year; some 320 participants, 50 VIPs, 34 main paper speakers and poster authors, 90 exhibitors' representatives; 14 committee and 10 sub-committee, plus a further 28 undergrads from Universiti Sains Malaysia and Universiti Malaya, have enabled, for a second year running, a fantastic 500 + turnout. Everyone managed to share their work experiences, to learn new technology, to grow the business even further, to give due recognition, to rekindle old network, to show the next generation what is petroleum geoscience and to make more friends.

This year's event saw a first in bringing about the opening video-clip which truly added more oomph, brought back old memories and put the society's effort to a level higher on the international map. The move to have all the generous sponsors and donors, and exhibitors to receive their tokens of appreciation after the opening also went well with the VIPs. All PGCE 2004 guests, exhibitors and participants have ample opportunity to enjoy the sumptuous lunch on both days and make time to visit the booths.



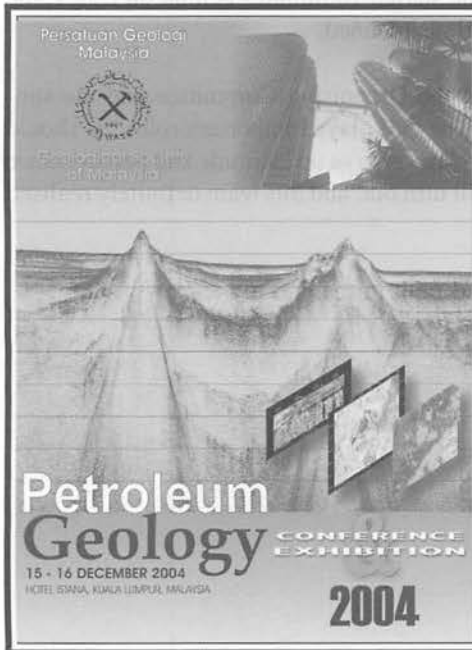
We know that efforts have already been made by several oil companies to this end and appeal that this worthwhile effort be not only continued but intensified with the provision of more funds from oil profits to environmental research as well as the promotion of environmental awareness such as is carried out by several NGOs like our Geological Society, Malaysian Nature Society and others. Let us work together to build a better world to pass on to the next generation. We are not owners but stewards of this Earth and its resources. We are custodians of it for our children and their children. Let us ensure that we have a good legacy to pass on to them when the time comes.

To all who have contributed to the success of this conference, from the organisers to paper and poster presenters, session chairpersons, sponsors and hard working volunteers and every participant, I thank you and wish you every success in your endeavours.

### EXHIBITION



## PERTEMUAN PERSATUAN (Meetings of the Society)



Persatuan Geologi  
Malaysia

Geological Society of  
Malaysia

**Petroleum Geology Conference & Exhibition  
2004**

**Hotel Istana, Kuala Lumpur**

**15 - 16 December 2004**

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The keynote speakers, session chairmen, paper and poster authors have cooperated well in ensuring a smooth run of the presentations. The sub-committee has put together a fantastic LCD-laptop system that went extremely flawless. Thus, avoided the cumbersome and frustrating time-wasting hardware connection changes that were often seen and experienced during digital presentations. Though the programme started 10 minutes behind on Day 1, the programme was kept in proper pace. By Day 2, it ended like clock-work as planned.

It is my heartiest and utmost thanks to each and every member of the Organising Committee and the sub-committees for their untiring efforts in bringing about this conference. They all played important roles. It should be noted that in many departments, they had to start from scratch, and their "never give up" attitude and perseverance bore fruits. I had this vision many months back on how this conference will turn out, and this team definitely realised it just the way I wished it would.

Finally, I would like to thank the honourable GSM council who had faith in me and my team.

Thank You. Assalamualaikum

Md Yazid Mansor  
Organising Chairman  
Petroleum Geology Conference & Exhibition 2004

## ORGANISING COMMITTEE



**Petroleum Geology Conference & Exhibition 2004**  
**Hotel Istana, Kuala Lumpur**  
**15-16 December 2004**

**Welcome Address by President of Geological Society of Malaysia**  
**Prof. Madya Dr. Lee Chai Peng**



*Yang dihormati Tuan Pengerusi Majlis,*

*Yang Berusaha En. Effendy Cheng, General Manager, Petroleum Resource Assessment and Marketing, Petroleum Management Unit, PETRONAS,*

*Yang Berusaha En. Md Yazid Mansor, Organising Chairman of this conference,*

*Para Jemputan, Tuan-Tuan dan Puan-Puan yang dihormati sekalian.*

*Selamat Pagi dan Selamat Datang.*

On behalf of the Geological Society of Malaysia, I welcome you to the 26<sup>th</sup> Petroleum Geology Conference of the society.

We are particularly honoured that En. Effendy Cheng has taken time off from his busy schedule to officiate at the opening of this conference (on behalf of En. Abdullah Karim, Vice-President, E & P Business, PETRONAS).

I would like to take this opportunity to congratulate and thank the Organising Committee under the able leadership of En. Md Yazid Mansor for their sacrifice and hard work in organising this conference. Your efforts on behalf of the Society are very much appreciated.

2004 has been a very good year for the petroleum industry with oil prices at an all time high. This translates into increased profits for oil companies. We are glad that it has also been reflected in increased donations to support the activities of the Society for which we thank you. Without your continuing generous support, we would not be able to conduct many of the activities of the Society like the Annual Geological Conference with the affordable registration fees that encourage greater participation of especially students and non-industry members. The Society's publications of its bimonthly newsletter and twice yearly bulletin and occasional monographs like the *Lexicon of Malaysian Stratigraphy* that has just come out, would also be severely curtailed without funding support.

While it is wonderful that oil companies are enjoying more profits from the current high prices of petroleum, we must be conscious of the social aspects of the industry's impact on society. I would like to take a leaf out of the history of the mining industry for comparison. In the past, mining companies focussed primarily on extracting ores from the earth. The general perception was that they were exploitative and only interested in profits even at the expense of the environment. Thankfully, things have changed in more recent years. Rehabilitation of ex-mining land together with advances in mitigation of environmental damage during mining have become important components in the mining process. They have invested substantially in research in these areas and this has somewhat changed the public's perception of miners from irresponsible exploiters of natural resources to more responsible people who would try to minimize damage to the environment during mining and nursing it back to health afterwards.

We know that efforts have already been made by several oil companies to this end and appeal that this worthwhile effort be not only continued but intensified with the provision of more funds from oil profits to environmental research as well as the promotion of environmental awareness such as is carried out by several NGOs like our Geological Society, Malaysian Nature Society and others. Let us work together to build a better world to pass on to the next generation. We are not owners but stewards of this Earth and its resources. We are custodians of it for our children and their children. Let us ensure that we have a good legacy to pass on to them when the time comes.

To all who have contributed to the success of this conference, from the organisers to paper and poster presenters, session chairpersons, sponsors and hard working volunteers and every participant, I thank you and wish you every success in your endeavours.

### EXHIBITION





**Petroleum Geology Conference & Exhibition 2004**  
**Hotel Istana, Kuala Lumpur**  
**15-16 December 2004**

**Opening Address by Yg Berusaha En. Abdullah Karim (Vice-President, Exploration & Production Business, PETRONAS) read by Yg Berusaha En. Effendy Cheng Abdullah (General Manager, Petroleum Resource Assessment & Marketing, Petroleum Management Unit, PETRONAS)**



*Yang Berusaha, Profesor Madya Dr. Lee Chai Peng, President of Geological Society of Malaysia,*

*Yang Berusaha, En Md Yazid Mansor, Organising Chairman of the 2004 Petroleum Geology Conference and Exhibition,*

*Distinguished Guests, Conference Participants and Exhibitors,*

*Ladies and Gentlemen,*

*Assalamualaikum Warahmatullah, Salam Sejahtera and a very good morning.*

First and foremost, I would like to wish everyone "Selamat Datang or a very warm welcome to Malaysia".

It is indeed my pleasure to be present here amongst prominent geoscientists and experts in the oil and gas industry and to deliver this opening address at the 26th Petroleum Geology Conference and Exhibition.

The tremendous work put in by the society to organise this annual conference & exhibition to promote state-of-art exploration ideas, discuss geological concepts and to share the experiences within the petroleum fraternity is commendable indeed. This conference is aimed at providing an effective platform to facilitate a good exchange of knowledge and experiences that will, among others, help transform geoscientists into astute oil and gas discoverers who can see much broader, far deeper and clearer into the subsurface.

Take this opportunity to congratulate the oil and gas community here and abroad for supporting this event towards enhancing our understanding of our basins' sub-surface geology. I am happy to note that more than 350 participants including university students are attending this conference where two keynote addresses, 23 scientific papers and more than a dozen posters will be presented. I hope you will take this opportunity to gain a better insight into "what's the latest technology used" in our search for hydrocarbons especially in the new play types and the areas of increasing subsurface complexity as well as deeper waters where the "elusive elephants" lie.

*Distinguished Guests,  
 Ladies and Gentlemen,*

The challenges facing the oil and gas business have become more global in nature. Oil prices continue to be the main driving factor. The past half-year has seen the oil price rising from US\$ 38 to US\$ 42 per barrel, hovering above US\$ 50 from September to November and coming down to about US\$ 41-42 today. Malaysia's own Tapis crude achieved US\$ 54.46 per barrel, which in itself is a global high. The new profits for oil producers provide long needed impetus to drive aggressive exploration further.

**Petroleum Geology Conference & Exhibition 2004**  
**Hotel Istana, Kuala Lumpur**  
**15-16 December 2004**



providers, as well as PETRONAS' own Petroleum Management Unit and Carigali. This advance visualisation facility is located at level 22, Tower 2 of the Petronas Twin Towers at the Kuala Lumpur City Centre.

Named the "P V I C", it hosts technologically advanced and sophisticated infrastructure and 3D visualisation softwares for interpreting large volume seismic data, multi-disciplinary collaboration, prospect generation, and decision making for subsurface project undertakings. This environment facilitates faster pattern recognition, minimizes visual distractions, while enabling a better understanding of all data type which will lead to more accurate interpretation and dramatic reduction in cycle time.

Thus, the PETRONAS visualisation centre has joined the global community of some 120 centres mostly owned by E&P companies. We welcome oil and gas companies, and service providers to use this facility.

*Ladies and Gentlemen,*

I would like to conclude by reminding the respected audience of geoscientists to accelerate the pace of hydrocarbon exploration by the continuous use of highly innovative and practical concepts, more aggressive technology and synergistic alliances between oil multi-nationals and services companies, and most of all your passion to ensure success at every turn.

I trust this conference will provide sufficient opportunities to discuss many if not all of these subjects. Last but not least, I would like to take this moment to congratulate every member of the Organising Committee for their untiring efforts in bringing about this conference.

**On this note, it is with great pleasure that I declare the 26th Petroleum Geology Conference and Exhibition open.**

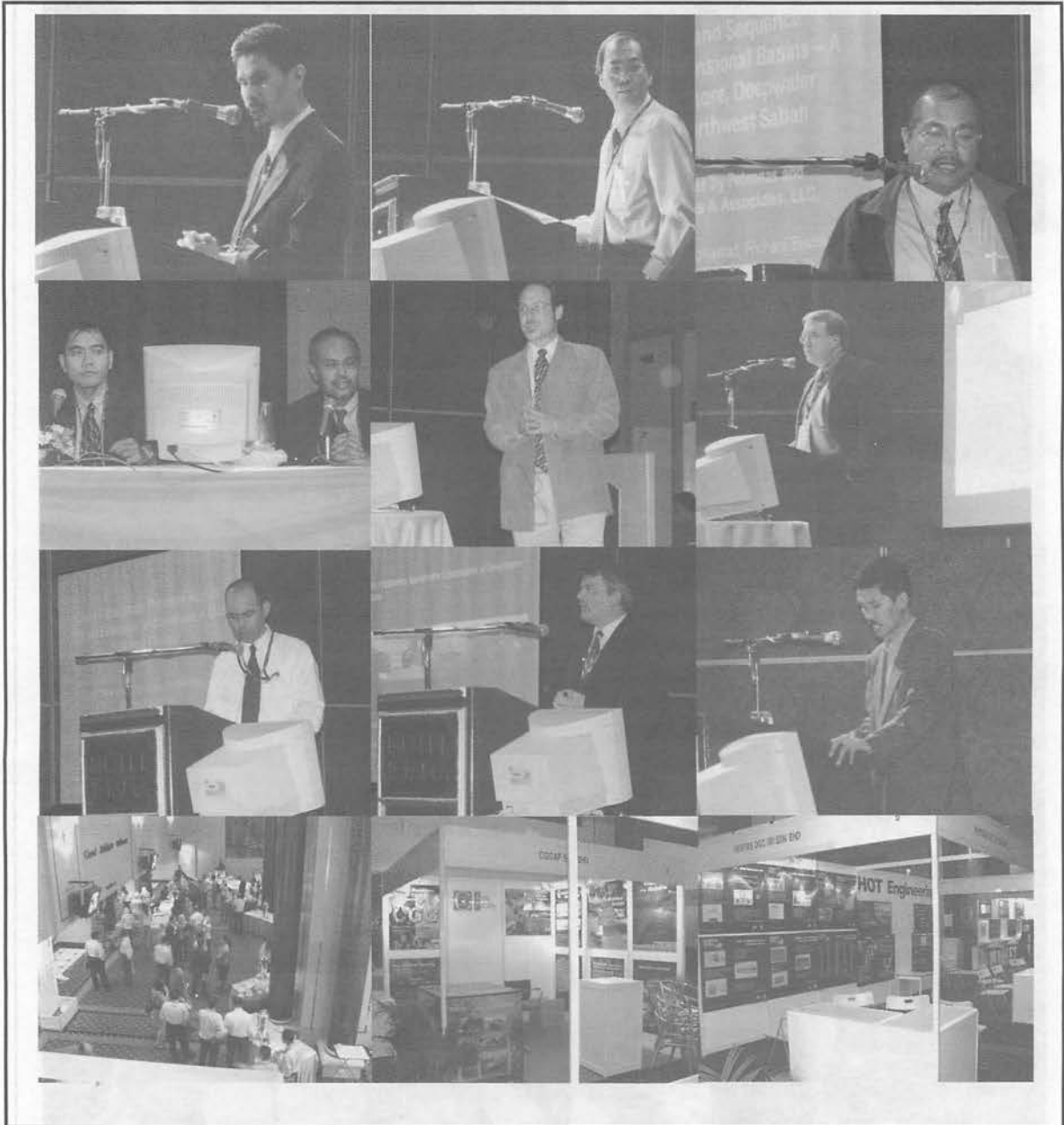
Thank You

**Petroleum Geology Conference & Exhibition 2004**  
**Hotel Istana, Kuala Lumpur**  
**15-16 December 2004**





**Petroleum Geology Conference & Exhibition 2004**  
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**15-16 December 2004**



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**Hotel Istana, Kuala Lumpur**  
**15-16 December 2004**

## Programme

### WEDNESDAY, 15 DECEMBER 2004

#### OPENING CEREMONY

- 08:00 : **Registration**  
 08:50 : **Arrival of Invited Guests**  
 09:00 : **Welcoming Address by Prof Madya Dr Lee Chai Peng**  
           (President, Geological Society of Malaysia)  
 09:10 : **Opening Address by Yg Berusaha En Abdullah Karim**  
           (VP, E & P Business, PETRONAS)  
 09:30 : **Keynote Address 1: Exploration : Catching the Next Wave**  
           *Dr Wouter Hoogeveen (Exploration Director, Asia Pacific, Shell*  
           *Exploration & Production)*  
 10:00 : **Coffee Break (Sponsored by Fugro-Jason)**

#### SESSION 1

- 10:30 : **Paper 1 : Proper Treatment of Amplitude and Phase of Seismic Data for Preserving Geology**  
           *Deva Ghosh (PETRONAS Carigali Sdn Bhd)*  
 11:30 : **Paper 2 : Time Lapse Processing for Reservoir Characterization**  
           *Rick Walia (CGGAP)*  
 11:00 : **Paper 3 : Q-Marine : Advanced Seismic Technology for the 21st Century**  
           *Tim Brice & Jesmee Zainal Rashid (Western Geco)*  
 12:00 : **Paper 4 : Tanjung Jabung Seismic Project: Key Challenges and Issues in Managing Four**  
           **Different Seismic Methods in One Project**  
           *Zabuddin Zawawi & Liau Min Hoe (PETRONAS Carigali Sdn Bhd)*  
 12:30 : **Lunch (Sponsored by Landmark Graphics)**

#### SESSION 2

- 14:00 : **Paper 5 : Integrating Sedimentology, Biostratigraphy, Organic Petrology and Petroleum**  
           **Geochemistry: A Case Study of the Neogene Sequences of Limbang, Sarawak**  
           *Patrick Gou & Wan Hasiah Abdullah (University of Malaya)*  
 14:30 : **Paper 6 : The Overpressure History of the Malay Basin, Offshore Peninsular Malaysia**  
           *Mazlan Madon (PETRONAS Research & Scientific Services Sdn Bhd)*  
 15:00 : **Paper 7 : Ichnology of Shallow Marine Clastic Facies in Brunei Darussalam and its Application**  
           **to the Interpretation of Depositional Environments**  
           *Norzita Mat Fiah & Joe Lambiase (University Brunei Darussalam)*  
 15:30 : **Paper 8 : Measurement of Sedimentary Surface Heat Flow and its Application in Deepwater**  
           **Exploration**  
           *Bernie B. Bernard & James M. Brooks (TDI Brooks International)*  
 16:00 : **Tea Break (Sponsored by Geoservices)**

**Petroleum Geology Conference & Exhibition 2004**  
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**SESSION 3**

- 16:30 : **Paper 9** : Thin Oil Development in Semangkok E-20 Reservoir, Malay Basin  
*Farhana Rokhani, M Noor Ismail & Diana Abd Rahman (ExxonMobil Exploration & Production Malaysia Inc.)*
- 17:00 : **Paper 10** : Geocellular Modelling of the Fluvial Deltaic and Shallow Marine Reservoirs, Tangga Barat Field PM 313 Offshore Malay Basin  
*Kevin Bate, Gunawan Taslim, Maizatul Azlina A Halim & Teh Yat Hong (PETRONAS Carigali Sdn Bhd)*
- 17:30 : **Paper 11** : Depositional Model of a Sharp Base Progradational Estuarine Sandstone: A Case Study of B5.5M Reservoir West Patricia Field  
*Teguh Prasetyo, Liau Boon Leong, Andy Firth & M. Reza Lasman (Murphy Sarawak Oil Co Ltd)*
- 18:30 : **Icebreaker** (Sponsored by Veritas)

**THURSDAY, 16 DECEMBER 2004****SESSION 4**

- 08:15 : **Paper 12** : Seismic and Geologic Evidence of Complex Positive Flower Structures Along Confining Bends in Strike Slip Faults, Lake Maracaibo, Venezuela  
*Darell Kramer, David List, Laura Tillman, Keith Jagiello & Thomas Gould (International Reservoir Technologies Inc.)*
- 08:45 : **Paper 13** : Structural Style and Hydrocarbon Potential of the Dent Peninsula, Eastern Sabah  
*M Razali B Che Kob (PETRONAS Research & Scientific Services Sdn Bhd)*
- 09:15 : **Paper 14** : Convergence Towards Reducing Exploration Stratigraphic Play Risks  
*Vincent Kong, Nurdiana Alwi & Aris Setiawan (PETRONAS Carigali Sdn Bhd)*
- 09:45 : **Paper 15** : The Evolution of Kinabalu Reservoir Modelling, "from Multiple to Single"  
*Edwin Akien, Giles Philip, Andrew Cullen & Serge Toulekima (Sarawak Shell Berhad)*
- 10:15 : **Coffee Break** (Sponsored by Nippon Oil)

**SESSION 5**

- 10:45 : **Keynote Address 2**: The Allocation of Exploration Dollars in a High Oil Price Environment  
*Paul Ebdale (Exploration Manager South East Asia, Amerada Hess)*
- 11:15 : **Paper 16** : Furthering the Shallow Clastics Play in the Central Luconia Province – the Kumang Stratigraphic Trap  
*Azhar Yusof & Idris Mohamed (Petroleum Management Unit, PETRONAS)*
- 11:45 : **Paper 17** : An Integrated Approach to Develop a Mature Reservoir: A Case History at Guntong I-10 infill drilling, Malay Basin  
*Sim Chee Hui & M Rizam Sarif (ExxonMobil Exploration & Production Malaysia Inc.)*
- 12:15 : **Paper 18** : The Structure and Sequence Stratigraphy of Extensional Basins – A Case Study Offshore Deepwater Sarawak and Sabah  
*Mansor Ahmad, Hamdan Mohamad (Petroleum Management Unit, PETRONAS), Richard Bischke, Jeff Boyer, Daniel Tearpock & Kenneth Thies (Subsurface Consultants & Associates, LLC)*
- 12:45 : **Lunch** (Sponsored by Schlumberger)



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**SESSION 6**

- 14:00 : **Paper 19** : Maturity and Impact of Information Management  
*Jess Kozman (Schlumberger)*
- 14:30 : **Paper 20** : Growth Methods as a Tool Applied to the Sabah and North Luconia Basins, Offshore Malaysia  
*Richard Bischke, Jeff Boyer, Kenneth Thies & Daniel Tearpock (Subsurface Consultants & Associates, LLC)*
- 15:00 : **Paper 21** : Case Study: PETRONAS Applies Robust Evaluation and Analysis in D18 Full-field Review  
*Abdullah Adli Zakaria, Ahmad Munif Koraini (PETRONAS Research & Scientific Services Sdn Bhd), Jose Finolsh & Armadronam Raju (Landmark Graphics (M) Sdn Bhd)*
- 15:30 : **Paper 22** : Seismic Frequency Bandwidth Constraints in Deepwater Locations  
*Andrew Long & Iaian Buchan (PGS Geophysical)*
- 16:00 : **Paper 23** : Lithofacies and Architectural Elements of Conglomerate in Tanjung Leman, East Johor, Malaysia  
*Sugeng S Surjono, Md Shafeea Leman, Kamal Roslan Mohamed & Che Aziz Ali (Universiti Kebangsaan Malaysia)*
- 16:30 : **Closing Remarks and Closing of Conference**  
*Md Yazid Mansor (Chairman, Organising Committee, PGCE 2004)*
- 17:00 : **Tea** (Sponsored by Odegaard)

**POSTER SESSION**

1. Remote Detection of Hydrocarbon Microseepage: An Alternative Tool for Onshore Exploration  
*M Razali B Che Kob (PETRONAS Research & Scientific Services Sdn Bhd)*
2. Rock & Fluid Acoustic Models Inboard Sabah in Support of Seismic Amplitude Calibration Studies  
*Jeremy Ngu, Sean Dolan, Tim Johnson, Chee-Hau Hoo & Francis Ho (Sarawak Shell Berhad)*
3. Inversion of a 3D Seismic Dataset, Offshore Sarawak  
*Jonas Majain & Anura Nadadaser (Sarawak Shell Berhad)*
4. Acoustic Impedence Inversion and AVO Analysis of Pre-SDM versus Pre-STM Data  
*Ang Duen-Woei, Christopher E. Harris & Lim Hock Kuang (EMEPMI)*
5. 4D Feasibility Study in Carbonate Field for Reservoir Management  
*Christopher Odukwe, Kok Yip Cheong, Hua Zhu, Jeremy Ngu & Michael Lawson (Sarawak Shell Berhad)*
6. Angsi Gas Development: World's Largest Platform Fracturing Operations  
*Mat Ariffin Ismail & Harun M Noor (PETRONAS Carigali Sdn Bhd)*

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7. Stacking, PSTM and PSDM Velocities from Depth Conversion  
*Mehmet Ferruh Akalin (PETRONAS Carigali Sdn Bhd)*
8. Awakening Barton: Multiple Scenario Modelling  
*Kuswadi Hedeir, Flavia Kandau & Agus Widjiastono (Sarawak Shell Berhad)*
9. Petroleum Systems of the North Malay Basin  
*Mazlan Madon, Peter Abolins, Redzuan Abu Hassan, Azmi M Yakzan (Petronas Research & Scientific Services Sdn Bhd), Jiu-Shan Yang & Saiful Bahari Zainal (CS Mutiara Petroleum Sdn Bhd)*
10. Gas Hydrates in Seabed Sediments, Offshore Trinidad / Barbados  
*Bernie B. Bernard, James M. Brooks, Neil Summer & Sean Flanagan (TDI Brooks)*
11. Coal Depositional Setting of Mukah-Balingan, Sarawak: Implication for Coaly Petroleum Source Rock of Balingian Province  
*Chai Shin Ni & Wan Hasiah Abdullah (University of Malaya)*
12. Chasing Subtle Plays in a Mature Carbonate Province.  
*Piet Lambregts, Guenter Jaeger, Donald Sim & Sean Guest (Sarawak Shell Berhad)*
13. Applying GIS Tools to Focus Exploration in NW Borneo – A Timely Catalyst for Consolidation  
*Andrew Chan, Noeline Wong, Paul Kelly & Richard Knight (Sarawak Shell Berhad)*
14. PSC Data Submission Requirements  
*Robert Toba Siahaan (Petroleum Management Unit, PETRONAS)*
15. Phu Khanh Basin, a Frontier Deepwater Basin in Vietnam  
*Prithiraj Chungkham(IHS Energy)*
16. PETRONAS Visualisation Centre (PViC)  
*Faris Shahfizal Jamean & Zuraidah Mohamed Nor (PETRONAS)*
17. Geothermal Resources Potential in Apas Kiri, Sabah  
*Kamaludin Hassan (JMG Sabah)*

**Ceramah Teknik (Technical Talk)****ATTRACTING, DEVELOPING AND RETAINING TOP TECHNICAL PEOPLE**

**17 December 2004  
Geology Department  
Universiti Malaya**

**PETER M. LLOYD**

**Report**

Mr. Peter M. Lloyd, a petroleum geologist with over 30 years of industry experience, gave this talk to about 20 GSM members, students and staff of the Geology Department, Universiti Malaya at 5.30pm on Friday, 17 December, 2004 at the department lecture hall. His talk on the topic above generated a lot of discussion as we were made to realise that the present technical people needed to sustain the quest for energy are aging and younger replacements are not forthcoming.

The technical talk presented has just been selected for the Distinguished Lecture for the European Association of Petroleum Geologists for 2005.

Lee Chai Peng



## Abstract

Our industry is graying. The mentors in many of the major companies are gone, the in-house training programs in many major companies are gone, and the research centers in many major companies are gone. Comparing the E&P landscape just 10 years ago, many of the major companies themselves are gone, and have been replaced with very different looking organizations. Demographics of the big professional societies suggest that in 10 years many of the current work force will have retired.

The industry is starting to think hard about the "big crew change". And as it takes some 10 years to educate and train entry level university students in the geoscience and engineering disciplines so they can begin to effectively contribute to their companies with minimum levels of supervision, there is no time to lose. A further challenge is how to build and maintain skills once professionals have entered the industry.

In the lecture, we shall analyze why relatively few graduates in engineering and the geosciences are now considering entering the Oil and Gas industry, and how the upstream business can make itself more attractive to young undergraduates. Ideas will be presented on the education they can be given in universities so they are most effective upon graduation, and, as importantly, how to develop and retain them through their careers. Tools and techniques to define training needs for an individual's career development, and to plan cost effective and timely programs are also discussed.

The presentation draws on various studies and publications, with specific reference to more recent colloquia and technical sessions on education and training for the petroleum industry (SPE-Bali;2002, SPE-Denver;2003, IPA-Jakarta;2003, and EAGE-Paris; 2004). These meetings, which have involved both universities and industry, have proven different from most earlier events because people are now focusing on not only developing the geoscientists and engineers with the skill sets that the industry would like to see when they graduate, but also in keeping those skill sets current and further developing them during their careers.



## BERITA-BERITA PERSATUAN (News of the Society)

### Current Addresses Wanted

The Geological Society of Malaysia is seeking the address of the following members. Anyone knowing the new address, please inform the Society.

#### 1. Maarof Seman

### New Members (Ahli-ahli Baru)

Majlis telah meluluskan keahlian baru bagi pemohon berikut dimana kesemuanya adalah pelajar:

- |                                |   |
|--------------------------------|---|
| 1) Ahmad Najwan Che Muda       | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 2) Amar Ghaziah Mohd Adnan     | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 3) Dayang Aini Awang Piut      | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 4) Farhana Amiruzan            | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 5) Jennifer Chin Li Yen        | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 6) Kam Wai San                 | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 7) Khairool Anwar Laksamana    | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 8) Nooryusrina Abdul Rahman    | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 9) Nur Asmad Abdul Gapor       | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 10) Nurul Saadah Alias         | (USM),Universiti Sains Malaysia, School of Physics, 11800 Penang                            |
| 11) Noor Ezlyn Othman          | (UiTM)Universiti Teknologi Mara,1940-B, Tmn Jayakami,<br>Jln Stadium,05100 Alor Setar,Kedah |
| 12) Amiruddin Salleh           | (UM), Jabatan Geologi, Universiti Malaya, 50603 Kuala Lumpur                                |
| 13) Maziah Adura Abd Majid     | (UM), Jabatan Geologi, Universiti Malaya, 50603 Kuala Lumpur                                |
| 14) Khairul Faizal Sepian      | (UM), Jabatan Geologi, Universiti Malaya, 50603 Kuala Lumpur                                |
| 14) Khairur Rijal Kamarulzaman | (UM), Jabatan Geologi, Universiti Malaya, 50603 Kuala Lumpur                                |
| 16) Nurfadhilah Hashim         | (UM), Jabatan Geologi, Universiti Malaya, 50603 Kuala Lumpur                                |
| 17) Haswanto                   | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 18) Hazrina Pungut             | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 19) Hezne Ezaty Abu Hassan     | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 20) Jenny Liew                 | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 21) Marlia Zahura Baharudin    | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 22) Mohd Hafiz Buniamin        | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 23) Muraushah Hamir            | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 24) Nurizawani Mohd Zainuri    | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 25) Safuan Ramli               | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 26) Sham Shukriah Abd Aziz     | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |
| 27) Suziana Robi               | (UKM) Program Geologi,Universiti Kebangsaan Malaysia, 46300 Bangi                           |

## Change of Address

1. Tee Say Li  
92, Jln Harmoni 6,  
Tmn Sungai Pinang,  
Off Jln Sungai Putus,  
42100 Klang,  
Selangor

## Pertambahan Baharu Perpustakaan (New Library Additions)

The Society has received the following publications:

1. U.S.G.S Professional Paper no. 1683, 1678, 1676 (2003)
2. U.S.G.S Circular no. 1244, 1262, 1243, 1245 (2003), 1264, 1235, 1230, 1231, 1234, 1229, 1233, 1232, 1236 (2004)
3. Episodes, vol. 27 no.3, 2004
4. Industri Perlombongan Malaysia 2003

## BERITA-BERITA LAIN (Other News)

### Post Graduate's Compass

A new section "Post Graduate's Compass" is established with the objective to provide a platform for any post graduate studies of geoscience disciplines to promote its post graduate's geoscience programmes (course or research). Members of GSM will benefit from this section as write-ups in this section provide IN-DEPTH ANALYSIS of the post graduate's geoscience programme, covering areas such as background (establishment, facilities, faculty, etc.), and distinctive areas of research, current research topics & benefits to Malaysian students. It will help potential Malaysian post graduate students to make their choice.

### Graduate Studies Program School of Environment and Natural Resource Science (Geology Program) UNIVERSITI KEBANGSAAN MALAYSIA

The School of Environment and Natural Resource Science, Faculty of Science & Technology, Universiti Kebangsaan Malaysia offers both MSc and PhD programs in various fields of research studies in pure and applied geology. On full-time basis the MSc research program normally requires 4 semesters in 2-year duration. This includes 10 credit hours of course work and 26 credit hours of thesis writing. The PhD commonly requires three years of independent and original research. The graduate students either MSc or PhD can collaborate with ongoing research activities in the school such as research funded by IRPA, fundamental research and university short and long term research on various subjects including: Engineering geology, environmental geology, engineering and environmental geophysics, hydrogeology, sedimentology, palaeontology, structural geology, petroleum geology, petrology, geochemistry, micropalaeontology, palinology, geotourism, economic geology, remote sensing & GIS, soil sciences and economic geology.

The school also offers one-year program of MSc by courses work in the field of Engineering Geology, Engineering & Environmental Geophysics and Industrial Mineral. Students registered for these programs are required to complete 24 credit hours of course work and 12 credit hours of individual projects. These courses have been set up in response to demand for skills workers in engineering geology, geophysics and industrial mineral in Malaysia. These courses are designed to give a thorough grounding in all aspects of the subjects from theoretical aspect through field techniques for data acquisition as well as in laboratory data analysis and interpretation. The broad-based approach allows graduates to pursue their career options including consulting, research and teaching as well as to prepare themselves for further study at higher levels. It is also targeted at working professionals wishing to update their knowledge or acquire new skills in the new fields.

#### Research facilities

The School has a wide range of equipment for field and laboratory testing, which include various geophysical and engineering geological instrument, and well-equipped geochemistry laboratories which students will use as part of the courses. The courses will also concentrate on the use of softwares which will be made available to all registered students.

### Current researches

- o Development of new classification system of soil and rockmass using SASW method
- o Application of surface wave for determination of stiffness properties of soil and rock materials
- o Establishment of excavability curve for soft and hard rock based on Surface wave velocity
- o Application of geoelectrical imaging for contaminated land investigation eg. waste disposal sites.
- o Fate and behaviour of contaminants in soils and groundwater from contaminated landfill sites in Selangor  
Area: leaching column experiment and field scale study.
- o Shallow seismic study on Quaternary deposits.
- o Geophysical techniques for landslide investigation
- o Application of remote sensing for geological application
- o Adsorption of heavy metals by clay soils in Kuala Lumpur and Selangor area
- o Groundwater investigation for salt water intrusion
- o Seismic anisotropy study of igneous rocks
- o Discontinuity survey for engineering geological study
- o Gold mineralization in central belt Malaysia
- o Biostratigraphy and tectonic of Peninsular Malaysia
- o Basin development of palaeozoic rock in Peninsular Malaysia
- o Geological resources assessment for conservation and geotourism
- o Limestone characterisation and evaluation
- o Sedimentation of coastal environment
- o Permian brachiopod & molluscan fauna

### Entry requirements

Applications are welcome from students with a geology or related background including geoscience, geophysics, engineering and environmental science. Graduate in other fields or lacking adequate background may be admitted but must have at least a few years working experience in field related to geophysics.

### Contact details

For further details and request for an application form please write to:

Dean,  
Centre for Graduate Studies  
Universiti Kebangsaan Malaysia  
43600 Bangi, Selangor, Malaysia.  
Tel: 603-89215306; Fax:603-89252699  
Email: [dpps@pkrisc.cc.ukm.my](mailto:dpps@pkrisc.cc.ukm.my)  
URL: <http://www.pps.ukm.my>

or

Head  
Geology Program,  
School of Environmental and Natural Resource Sciences, Faculty of Science & Technology  
Universiti Kebangsaan Malaysia  
43600 Bangi, Selangor, Malaysia.  
Tel: 603-89215392 ;Fax: 603-89215490  
Email: [abrahim@pkrisc.cc.ukm.my](mailto:abrahim@pkrisc.cc.ukm.my)



## Post Graduate's Compass

### Master of Science in Applied Geosciences (Engineering Geology) Department of Earth Science THE UNIVERSITY OF HONG KONG

Everybody knows that modern civilization relies on the work of the civil engineer: for water and power supplies, for transportation and for buildings. But how many people realise that the success of civil engineering projects may depend on *geological* input? The geologist who provides this input is known as an 'engineering geologist'.

The engineering geologist's job is to predict the geology of a civil engineering site. And to ensure that construction is well-matched to the geology. There may be serious repercussions if this work is not done well: damage to the environment, project time/cost over-runs or even the collapse of the works. The engineering geologist may also have to find sources of natural construction materials and groundwater supplies, to identify geological hazards and to provide geological information related to the environmental impact of the proposed engineering development.

Malaysia has many difficult sites: ground prone to landslides, karst terrain, soft soil conditions, etc.. So it is clear that the country needs good engineering geologists. The preferred way of becoming an engineering geologist is by a first degree in Geology and a subsequent Masters qualification, with continuing development within a geotechnical organisation. When is the best time to begin Masters study? Many experienced university teachers say start after about two years of post-graduate working experience.

One masters course in Engineering Geology that Malaysian graduate geologists should consider is that offered by the University of Hong Kong. Established in the Department of Earth Sciences in 1998 mainly to serve the needs of Hong Kong and South China, the MSc (Engineering Geology) programme at HKU has graduated over seventy people. It began to take full-time students in 2003 and now, with a broadened curriculum, enrolls internationally. Its first Malaysian student has just joined the programme. The MSc is taught by eight university teachers and twenty leading practitioners, many of whom are professional geologists with broad international experience. The director of the programme, Professor Andrew Malone, was formerly the head of Hong Kong's Geotechnical Engineering Office and has worked as a World Bank and government consultant in Asian countries, including Malaysia.

Students of the HKU MSc (Engineering Geology) programme will, in their year in Hong Kong, attend classes in Geology, Soil Mechanics, Rock Mechanics, Hydrogeology, Environmental Management, Site Investigation, Geotechnical Design, Geophysics, Rock Engineering, Professional Practice and Geotechnical Failures. They will receive hands-on training in the skills of the engineering geologist and will complete a research project. Some of their training will be on real-life situations, forcing them to think for themselves about the ethical and social context of their work as engineering geologists. In their time at HKU students of the MSc (Engineering Geology) programme will be challenged and inspired. They should return to Malaysia equipped with the ability and confidence to start their careers as engineering geologists.

Enrollment is now open for entry in September 2005. Fees: HK\$60 000.

Scholarships: persons of Muslim faith born in Malaysia or in Hong Kong are eligible to apply for *Taufik Ali Memorial Scholarships for Postgraduate Studies*. The scholarship is administered by HKU and may cover tuition fees, a monthly living allowance and one return airfare. Other scholarships are awarded by such bodies as Rotary International, World Bank and UNESCO.

The MSc (Engineering Geology) is also a good preparation for PhD studies. On completion of the MSc degree full post-graduate research scholarships at HKU may be available for well-qualified students.

Contact: awmalone@netvigator.com Website: [www.hku.hk/science/postgrad](http://www.hku.hk/science/postgrad)

## Master of Science in Applied Geosciences

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Persons of Muslim faith born in Malaysia or in Hong  
Kong are eligible to apply for Taufik Ali Memorial  
Scholarships

Contact Professor Andrew Malone  
awmalone@netvigator.com  
Tel: + 852 2559 2555 Fax: +852 2517 6912

Details and application forms:  
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- Rock engineering
- Geohazards
- Geochemistry
- Professional practice
- Geotechnical failures

## Opinions

To further promote experience sharing within the geoscience community, "Opinions" is established. GSM members are encouraged to share their opinions in any matter that has an impact to the geoscience community, particularly in Malaysia. Views expressed by the contributors of this section are entirely their own and do not in any way reflect those of the Geological Society of Malaysia.

For this issue, En. Abdul Rasid Jaapar, the current Secretary of the Society, continues to share his opinions regarding issues in the redefinition of GSM.

### ISSUES IN REDEFINITION OF GSM PART II: Our Responsibilities and Strategic Planning

ABD RASID JAAPAR  
e-mail: secretary@gsm.org.my

*"In Germany, the Nazis came first for communists, and I didn't speak up because I wasn't a communist. Then they came for the Jews, and I didn't speak up because I wasn't a Jew. Then they came for trade unionists, and I didn't speak up because I wasn't unionist. Then they came for me, and by that time there was no one left to speak for me" – Rev. Pastor Martin Niemoller (during World War II)*

The above quote reminded me of our responsibilities. Born as a human being, we have a lot of responsibilities and, of course, as geologists, a profession that we proudly declared as steward of this planet earth. The geological profession has a lot more to offer in term of responsibilities to the world population, be it a lonely old man sleeping under the bridge or a first world leader.

In the first part on this series of articles, I had briefly highlighted GSM achievement as well as the danger of complacency. My second part of this series attempts to explore and to highlight certain issues regarding our responsibilities and the strategic planning developed by the Subcommittee on redefining GSM.

Again, I hope members would consider reading this article until the end as we can share some of these ideas and, hopefully, can stimulate some thought-provoking discussions.. If you don't bother to read this series of articles, then my articles will be just like another *monologue*. On the other hand, should you read and feel nothing, then GSM may become just like another *monolith* as explained in the first part of these articles.

#### What are our responsibilities?

In the Editor's Note column in IGMNews (Vol. 4, Issue 3, Jul – Sep 2002), I had mentioned that all professionals have a major responsibility to support the largest and most important contributor to their career – *the profession!* Do we want GSM be a leader in the promotion and advancement of geology? If yes, then we must be committed and dedicated to building the society into an organisation that truly represents the profession of geology.

We have to build our professional rapport with the general public. We have to tell them how important geology is in their daily life and what geologists can do to help them! Geology must be valued not just by a handful of geologists, but by all. Unfortunately, many geologists are not overly concern and they feel little urge to participate. Many of the decisions made involving the earth and its environment in this country did not really involve geologists whose consultation is useful to the sustainability of the profession.

If Malaysian Trade Union Congress (MTUC) only represents 10% of labour forces, what clouts does it has? Would the government approve request after request made by them? So, why should anyone care about the geological profession? Our fortune becomes even worse as our views are not sought on major national issues even though from technical and scientific viewpoints. GSM has no representative in many national committees or bodies.

*“As professional geologists and as private citizen, we should participate in the decision-making process. We live in a unique time on a unique earth and there is nowhere else to go” – Perry H. Rahn (1996)*

*“On issues where geologists as a group are affected or have the potential to be affected, we must speak out, offer our support to those who may be in more of a front-line position than we, and take stand on issues. Not to do so would forego our professional responsibility, thereby creating vacuum which unqualified tend to fill” - John P. Ivey, President AEG (1980)*

What are our actual responsibilities to our profession? What is profession anyway? A simple definition of profession is “a group of people together for common goals”. Idealistic goals are service to mankind and advancement of profession in knowledge/expertise through society, like GSM. Duties of the members of the profession are to advance the profession by writing technical papers or carrying out continuous professional development as life long duties and to train younger members. These are the ways that the profession can progress well and in the right direction.

Why we need a society like GSM? Peter M. Lloyd in his EAGE distinguished lecture 2005 entitled “Attracting, developing and retaining top technical people” listed five reasons why we need a professional society like GSM:

- i) training and development
- ii) keeping technically up to date
- iii) presenting one’s own work
- iv) networking
- v) giving back

No Continuing Professional Development (CPD) programme in whatever branch of geology is being conducted by GSM. Why? It seems nobody is interested to do so. We have to develop, enhance and advance our scientific methods. We need to share these methods so that we can advance our profession. Mentoring programme should be developed as it has shown positive impacts in other countries.

Why do we need to write/read technical papers? Simple, it is to benefit from others or benefit to others. We also need to keep abreast with current developments and need good fundamentals. We, as an individual, can advance only if our profession as a whole is advancing. We must save GSM from our own made. Only two things can destroy GSM or any other professional and scientific organisation:

- i) Lack of quality and loss credibility. GSM must improve its quality in all aspects such as administration, publications, promotion, approach, etc.
- ii) Too commercial. Members will feel cheated in some ways.

We also have to remember that GSM is not a safe haven for a handful of individuals who may be under the false impression that they own the Society. Everybody must be part of the solution, and not part of the problem. Let’s not waste time to make up 101 ways as excuses why things cannot be done, but focus on the one way how things may be put right.

Geology as a dynamic science must also have a dynamic society that is responsible for stewardship of the subject and profession. As we are relying more and more on electronic communications, e-mail access is very important. We need all members to give their e-mail addresses. We are slowly graying and losing our membership because we are not attracting new members.

By the way, there are always three groups of people in any organisation; those who make things happen, those who see things happen and those who wonder what happen. So, which one suits us?

## **GSM strategic planning**

In the Annual General Meeting (AGM) 2003, the Council was directed to form a Subcommittee on Redefining GSM. The progress of this sub-committee headed by Dr Liew Kit Kong (our present Editor) was presented during an Extraordinary General Meeting (EGM) on 10 January 2004. Redefining GSM journey was divided into various phases. To-date, only two phases were identified. Phase I consists of virtualising GSM and streamlining GSM while Phase II consists of setting targets, reaching out and strengthening activities.

There are 3 main tasks of redefining GSM, i.e. i) website ii) establish Standard Operating Procedure (SOP), and iii) permanent secretariat. Website was successfully implemented and now we have Working Group on Website chaired by Mr. Lim Chee Keong. Our new website is [www.gsm.org.my](http://www.gsm.org.my).

On permanent secretariat issue, members agreed that the best option for GSM is still to stay put in UM, but on permanent basis. The new Council will look into this issue. Establishment of SOP headed by me is still in progress. SOP basically divided into 3 categories, i.e. i) SOP ii) operating policy and iii) Term of Reference (TOR).

I firmly believe that organisational change is most effective when it comes from within, not imposed from outside. Some of my proposal regarding SOP can only be implemented with amendments to GSM constitutions. It seems that we are on the right track. SOP is not worthy if it was written just for the sake of having it and not for implementation purposes. David B. Simon in his The President's Message in AEGNEWS, Vol. 47, No. 3, September 2004.

*“Organisations often invest considerable time and efforts into creating a strategic plan, then pursue a few of the more exciting ideas, but fail to follow through with full implementation. The remainder of the plan sits on a shelf until some crisis spurs the organisation to create another strategic plan and work on more new ideas.... In those cases, organisations are treating strategic planning as an event rather than a process.... Implementation focuses on the actions required to deliver on the strategic plan.”*

Effort made by the Subcommittee on redefining GSM is a first step of many steps to come. The Subcommittee should be continuing with slightly changes in its role. The new role should be overseeing the operation of the council to ensure good governance being implemented and strategic planning being follow-through. The name may also be changed to Subcommittee on Governance and Strategic Planning. This Subcommittee can update their findings and status report on action plans to council and members every half-yearly. Of course, the Subcommittee should involve veteran members of GSM who have grown together with the Society. While the council is like the cabinet, this subcommittee will be like the parliamentary house and all the members will be the people. Check and balance will be implemented.

Should the implementation take place, any graduates who are interested to serve the Society will find themselves polishing their management and inter-personnel skills and, of course, they will learn a little bit about political process.

We need to get involved in politics anyway. The late senator of Idaho, USA, Frank Church, addressing many geoscientists many years ago, said,

*“ If you don't like politics and you don't like politicians, you will be governed by those who do”*

## **GSM Vision**

The vision is a statement of what we would like the organisation to be and what it aspires to accomplish at some future date. It is a tool that guides strategic planning and implementation. Therefore the vision statement will be revisited, and possibly revised as part of reviewing and updating process of the strategic plans. GSM new vision statement is:

*Leader in the promotion of geosciences*

The rationale is to drive the advancement of geosciences community

**Mission**

The mission statement says, “who we are” as an organisation and why we exist, providing both an identity and a focus for GSM operations and activities. Mission gives guidance to GSM leadership as to what the organisation should be doing, as well as “boundaries” to avoid straying from GSM primary purposes. Mission is considered final and expected to guide GSM indefinitely. GSM new mission statement is:

*To promote the advancement of the geosciences and enhance professional well-being of members*

The rationale is to increase scope to meet the growing expectation of members.

**Value (Role)**

Value or also known as role is what is/are the main function of the organisation. Value represent “what we care most about” as professionals in our fields of expertise. Value statement act as guiding principles in how we do our work and how we operate GSM as a collective representation of our professional endeavours. GSM new value statement is:

*Establish medium for the exchange of knowledge of geosciences and professional career development*

The rationale is experience and knowledge sharing provide critical impetus for sustainable growth of geosciences community.

**Strategic Plan**

The strategic plan consists of strategy (goal) and activities. Strategy reflect on how the organisation achieves its vision while activities deal with what tasks does the organisation do to achieve its vision. GSM have 3 strategies for the time being:

*Strategy I: Enhance networking among geosciences community*

The rationale is to extend physical networking to virtual networking

*Strategy I activities:*

- Organise Annual Geological Conference and Petroleum Geological Conference
- Drive or organise specialised conference, such as GEOSEA or joint conference with AAPG, etc.
- Disseminate geological information through publication and electronic media
- Establish and maintain website to promote exchange of geological knowledge through internet
- Encourage specialist interest group (working group) activities and seminars

*Strategy II: Increase public awareness on the roles of geosciences*

The rationale is to enlarge geosciences community

*Strategy II activities*

- Intensity promotion of geosciences in schools
- Conduct public lectures in geosciences
- Disseminate geological information in public media and internet
- Involve actively in public campaigns
- Encourage the promotion of geotourism and geoheritage

*Strategy III: Improve geosciences professionalism and recognition*

The rationale is to put in place basic infrastructure for professional growth

*Strategy III activities*

- Organise state-of-the-art and interactive courses and workshops
- Provide information and advise for career guidance and development to geoscientists
- Initiate dialogue with different professional organisations and government institutions to promote awareness of the roles of geosciences in their disciplines
- Set-up and maintain a professional resources library, including a database of Malaysian geoscientists.

**Structure**

The structure is on how the organisation organises its resources. GSM decided to maintain its operating status by elected council and working groups. However, it was decided that GSM must have permanent secretariat. The rationale for permanent secretariat is to ensure the effective running of society activities. It was decided that the permanent secretariat will still be housed in the Geology Department of University of Malaya.

That's all for this time. My next article will discuss on branding GSM and key success factors based on SWOT analysis made. I will explore the strengths, weaknesses, opportunities and threats of our society based on four main areas. Do we need to brand GSM? Why do we need it? What is GSM strength? What is GSM weakest point? Are there any threats to GSM? Wait for next article.

**Concluding remarks**

I am interested to hear from all GSM members. YOUR INPUT IS VERY IMPORTANT. Please let me know what GSM can do for you or what you would like to do for GSM. Let me know what we are doing well, where we can improve, and what you would like to see in the future. You can email to me at [secretary@gsm.org.my](mailto:secretary@gsm.org.my) or by SMS or calling me at 019-3555915. Where there is a will, there is always a way. We must come out with that political will to turn around the Society.



## Up Coming Events

**2005, January 10-13**

**INTERNATIONAL ASSOCIATION OF  
SEDIMENTOLOGISTS (24th Annual Meeting)**

Sultanate of Oman, Muscat.

Contact: 24th IAS Meeting of Sedimentologists, Carbonate  
Centre, Sultan Qaboos University, P.O Box 36, P.C.123, Al  
Khod, Sultanate Oman.

Tel: +968 515030 Fax: +968 513 147; Email:

homewood@squ.edu.om;

Website: [www.squ.edu.om/sci/Centers/VR/IAS/home.htm](http://www.squ.edu.om/sci/Centers/VR/IAS/home.htm)

**2005, January 10-16**

**INTERNATIONAL CONFERENCE ON  
DELTAS**

Ho Chi Minh City, Vietnam

Contact: website; <http://unit.aist.go.jp/jgg.rg.coast-rg/>

ADP.html

**2005, March 14-15**

**2ND INTERNATIONAL CONFERENCE:  
CLAYS IN NATURAL AND ENGINEERED  
BARRIERS FOR RADIOACTIVE WASTE  
CONFINEMENT**

Tours, France

Contact: Martine Klajman, Fax: 33 1 46 11 84 10 Email:

meeting2005@andra.dr

**2005, May 7-12**

**31ST ITA WORLD TUNNEL CONGRESS  
AND GENERAL ASSEMBLY**

Istanbul, Turkey

Contact: Congress Secretariate: Mrs Esin Genel Mudurlugu,

F-Blok Kat 1 Yucetepe 06100, Ankara, Turkey.

Tel: +90 312 418 7905; Fax: +90 312 425 8210

**2005, June 5-11**

**SEVENTH INTERNATIONAL CONGRESS  
ON RUDISTS**

Qustin, Texas, USA

Contact: Debra Sue Trinqué, Treasurer, 7th International  
Congress on Rudists, PO Box B, Austin TX 78713-8901,  
USA

Website: <http://www.tmm.utexas.edu/npl/rudist2005/>

**2005, January 10-13**

**NAPC 2005-NORTH AMERICAN  
PALEONTOLOGY CONFERENCE**

Dalhousie, New Brunswick, Canada

Contact: Email: David.Scott@Dal.CA; Website:

[www.ucmp.berkeley.edu/napc/2005/](http://www.ucmp.berkeley.edu/napc/2005/)

**2005, June 27-29**

**RAPID EXCAVATION AND TUNNELING  
CONFERENCE RETC 2005**

Seattle, USA

Contact: Tara Davis, SME, 8307 Shaffer Parkway, PO Box  
277002, Littleton, CO 80127, USA

Tel: +1 303 973 95501; Fax: +1 303 973 3845; Email:

davis@snet.net; Website: [www.snet.net](http://www.snet.net)

**2005, July 3-8**

**3RD INTERNATIONAL CONFERENCE ON  
MATERIALS FOR ADVANCED  
TECHNOLOGIES (ICMAT 2005) AND 9TH  
INTERNATIONAL CONFERENCE ON  
ADVANCED MATERIALS (ICAM 2005)**

Singapore. Organised by Materials Research Society of  
Singapore in association with Institute of Materials Research  
and Engineering and Nanyang technological University  
Contact: ICMAT Secretariat, Materials Research Society of  
Singapore, c/o Institute of Materials Research and  
Engineering, 3 Research Link, Singapore 117602.

Tel: (65) 6874 1975.6778 1036; FAX: (65) 6777 2393; Email:

icmat@mrs.org.sg; Website: [www.mrs.org.sg](http://www.mrs.org.sg)

**2005, August 3-6**

**INTERNATIONAL SCIENCE CONGRESS  
2005 - Science for Humanity  
Malaysian Scientific Association**

Call for papers (oral/ poster)

Contact: Chairman, Scientific Committee, ISC 2005,

Malaysian Scientific Association, Room 2, 2nd Floor,  
Bangunan Sultan Salahuddin Abdul Aziz Shah, 16, Jalan  
Utara, 46200 Petaling Jaya, Selangor.

website: <http://www.msa.org.my>



## Up Coming Events

**2005, August 18-24**

**THE FOURTH INTERNATIONAL SYMPOSIUM ON THE CAMBRIAN SYSTEM**

Nanjing, China.

Contact: Website: <http://www.nigpas.ac.cn/cambrian-conference/index.htm>; Zhu Maoyan (mzhu@nigpas.ac.cn); Li Guoxiang (gxli@nigpas.ac.cn); Peng Qingqing (qqpeng@nigpas.ac.cn).

**2005, August 20-23**

**SOCIETY FOR GEOLOGY APPLIED TO MINERAL DEPOSITS (8th Biennial Meeting)**

Beijing, China

Contact: 8th SGA Biennial Meeting, Dr. Jingwen Mao - Secretary, Institute of Mineral Resources, Chinese Academy of Geological Sciences, 26 Baiwanzhuang Road, Beijing 100037, China;

Tel: +86 10 68 32 73 33; Fax: +0086-10 68 33 63 58 Email: [mail@sga2005.com](mailto:mail@sga2005.com); Website: <http://sga2005.com>

**2005, August 21-27**

**13TH INTERNATIONAL CLAY CONFERENCE-CLAYSPHERE; PAST, PRESENT AND FUTURE-ICC 2005**

Waseda University, Tokyo, Japan

Contact: Prof. Takabumi Sakamoto, Secretary General 13th ICC, Faculty of Science, Okayama University of Science, 1-1, Ridai-cho, Okayama 700-0005, Japan.

Tel & Fax: +81-86-252-8922; Email: [icc13@das.ons.ac.jp](mailto:icc13@das.ons.ac.jp); Website: <http://www.soc.nii.ac.jp/cssj2/13ICC>

**2005, August 22-26**

**13TH INTERNATIONAL SYMPOSIUM ON PLACER AND WEATHERED ROCK DEPOSITS (PWR-2005)-PLACERS AND WEATHERED ROCK DEPOSITS; FACTS, PROBLEM AND WAYS TO SOLVE THEM (Quadrennial Meeting, Workshops and Field Excursions)**

Perm, Russia

Organizers: Inter-Department Committee on Ore Formation and Metallogeny of RAS, Perm Territory Administration, Perm State University, IGEM RAS, IAGOD Commission on Placer Deposits (COPD), IGCP (Russian National Committee of Geologist).

Contact: Dr Vladimir Naumov, Scientific Secretary, ENI, Perm State University, Genkel str, 4, perm 614990, Russia. Fax: (7-3422) 371480, Email: [naumov@psu.ru](mailto:naumov@psu.ru), website: <http://nsi.psu.ru/PWR-2005>

**2005, August 28- 2 September**

**10TH INTERNATIONAL SYMPOSIUM ON THE INTERACTIONS BETWEEN SEDIMENTS AND WATER**

Bled, Slovenia

Contact: Email: [iasws@ijs.si](mailto:iasws@ijs.si); Website: [www.rcp.ijs.si/IASWA](http://www.rcp.ijs.si/IASWA)

**2005, September**

**ENVIRONMENTAL (GEOLOGICAL) PROBLEMS IN KARST (International Conference)**

Belgrade, Serbia

Organised by the Yugoslav Committee of IAH (Contact):

Email: [jemcov@ptt.yu](mailto:jemcov@ptt.yu)

**2005, September 5-7**

**SUBMARINE MASS MOVEMENTS AND THEIR CONSEQUENCES: 2ND INTERNATIONAL SYMPOSIUM**

Oslo, Norway

Contact: Website: [www.geologi.no/submarine2005](http://www.geologi.no/submarine2005)

**2005, September 5-8**

**INTERNATIONAL SYMPOSIUM ON LATEST NATURAL DISASTER-NEW CHALLENGES FOR ENGINEERING GEOLOGY, GEOTECHNICS AND CIVIL PROTECTION**

Sofia, Bulgaria

Contact: email: [cic@cic-pco.com](mailto:cic@cic-pco.com) Website: <http://www.cic-pco.com>

**2005, September 5-9**

**THE CRETACEOUS (7th International Symposium)**

Neuchatel, Switzerland.

Contact: Karl B. Follmi or Thierry Adatte, Institut De Geologie, Universite' de Neuchatel, case postale 2, CH-2007 Neuchatel, Switzerland; Fax: 0041-718 26 01; Email: [karl.foellmi@unine.ch](mailto:karl.foellmi@unine.ch) or [thierry.adatte@unine.ch](mailto:thierry.adatte@unine.ch); Website: [www.geol.unine.ch/](http://www.geol.unine.ch/)

## Up Coming Events

**2005, September 7-9**

**XII INTERNATIONAL SPECIALIZED EXHIBITION OIL & GAS PETROCHEMISTRY**

Kazan, Russia  
 Contact: Exhibition Manager; Mrs Larisa Mitryaeva, 8, Orenburgsky Trakt, Kazan, 420059, Russia  
 Tel/Fax: +7 (8432) 705-114, 705-111; Email: d5@vico.bancorp.ru or vico@tbit.ru; Website: www.expokazan.ru

**2005, September 13-15**

**7TH INTERNATIONAL CONFERENCE AND EXHIBITION OF OFFSHORE OIL AND GAS DEVELOPMENT**

St. Petersburg, Russia.  
 Contact: Executive Committee: 24 Vavilova Str., Moscow 119991, Russia;  
 Tel: +7 (095) 777 3387; Fax: +7 (095) 411 5265; email: m\_polyakova@rosneft.ru. Secretariat: 12 Petrozavodkaya Str., St Petersburg, 197110, Russia  
 Tel: +7 (812) 320 9660/303 8863; Fax: +7 (812) 320 8090; email: oilgas@restec.ru

**2005, September 19-23**

**GEOCHEMICAL EXPLORATION (22nd International Symposium of the Association of Exploration Geochemists)**

Perth, Western Australia  
 Contact: Promaco Conventions Pty Ltd. ABN 68 008 784 585, PO Box 890, Canning Bridge, WESTERN AUSTRALIA 6153;  
 Tel: +61 8 9332 2900; Fax: +61 8 9332 2911; Email: promaco@promaco.com.au; Website: www.promaco.com.au/conference/2005/iges

**2005, October 12-15**

**XXXI INTERNATIONAL MINING CONGRESS AND EXHIBIT**

Veracruz, Mexico  
 Contact: AV Del Paque no.54 Col.Napoles C.P. 03810, Mexico, D.F.  
 Tel:(55) 55 43 91 30 A1.32; Fax: (55)55 43 90 05; Email: agociacion@aimgm.org.mx; Website: www.gepmin.com.mx

**2005, November 6-11**

**GONDWANA 12 CONFERENCE: GEOLOGICAL AND BIOLOGICAL HERITAGE OF GONDWANA**

Mendoza, Argentina  
 Contact: Convenors: Dr Carlos W. Rapela, Dr. Luis A. Spalletti, Centro de Investigaciones Geológicas, Calle 1 #644, B1900TAC La Plata, Argentina  
 Tel:/Fax: +54 221 4215677; Email: gondwana@cig.museo.unlp.edu.ar; Website: http://cig.museo.unlp.edu.ar/gondwana

**2005, November 7-11**

**20TH WORLD MINING CONGRESS & EXPO 2005**

Tehran, Iran  
 Contact: email: info@wmce2005.com; Website: www.20wmce2005.com

**2005, November 13-15**

**GEOLOGY FORUM 05: FOCUS ON MINERAL EXPLORATION**

Cape Town, South Africa  
 Contact: email: bwills@min-eng.com; Website: www.min-eng.com/geology/forum05/

**2005, December**

**6TH EUROPEAN MEETING ON ENVIRONMENTAL CHEMISTRY**

Belgrade, Serbia  
 Contact: Email: bjovanci@chem.bg.ac.yu

**2005, December 4-7**

**PETROLUUM SYSTEMS OF DIVERGENT CONTINENTAL MARGIN BASINS: (25th Bob f. Perkins Research Conference of the Gulf Coast Section of SEPM Foundation)**

Houston, Texas, USA  
 Contact: email: gcssepm@gessepm.org; Website: http://www.gessepm.org

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## Script Requirements

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HAMILTON, W., 1979. Tectonics of the Indonesian region. *U.S. Geological Survey Professional Paper* 1078, 345p.

HOSKING, K.F.G., 1973. Primary mineral deposits. In: Gobbett, D.J. and Hutchison, C.S. (Eds.), *Geology of the Malay Peninsula (West Malaysia and Singapore)*. Wiley-Interscience, New York, 335-390.

HUTCHISON, C.S., 1989. *Geological Evolution of South-east Asia*. Clarendon Press, Oxford, 368p.

SUNTHARALINGAM, T., 1968. Upper Paleozoic stratigraphy of the area west of Kampar, Perak. *Geol. Soc. Malaysia Bull.* 1, 1-15.

TAYLOR, B., AND HAYES, D.E., 1980. The tectonic evolution of the South China Sea basin. In: D.E. Hayes (Ed.), *The Tectonic and Geologic Evolution of Southeast Asian Sea and Islands, Part 2*. *Am. Geophy. Union Monograph* 23, 89-104.

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