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Title: *Plastic deformation*
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By : *Askury Abd. Kadir*
2nd Place in the 2006 GSM Photo Competition



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CATATAN GEOLOGI (Geological Notes)

Penemuan Fosil Tumbuhan *Neocalamites* sp. di Kota Gelanggi, Jerantut, Pahang.

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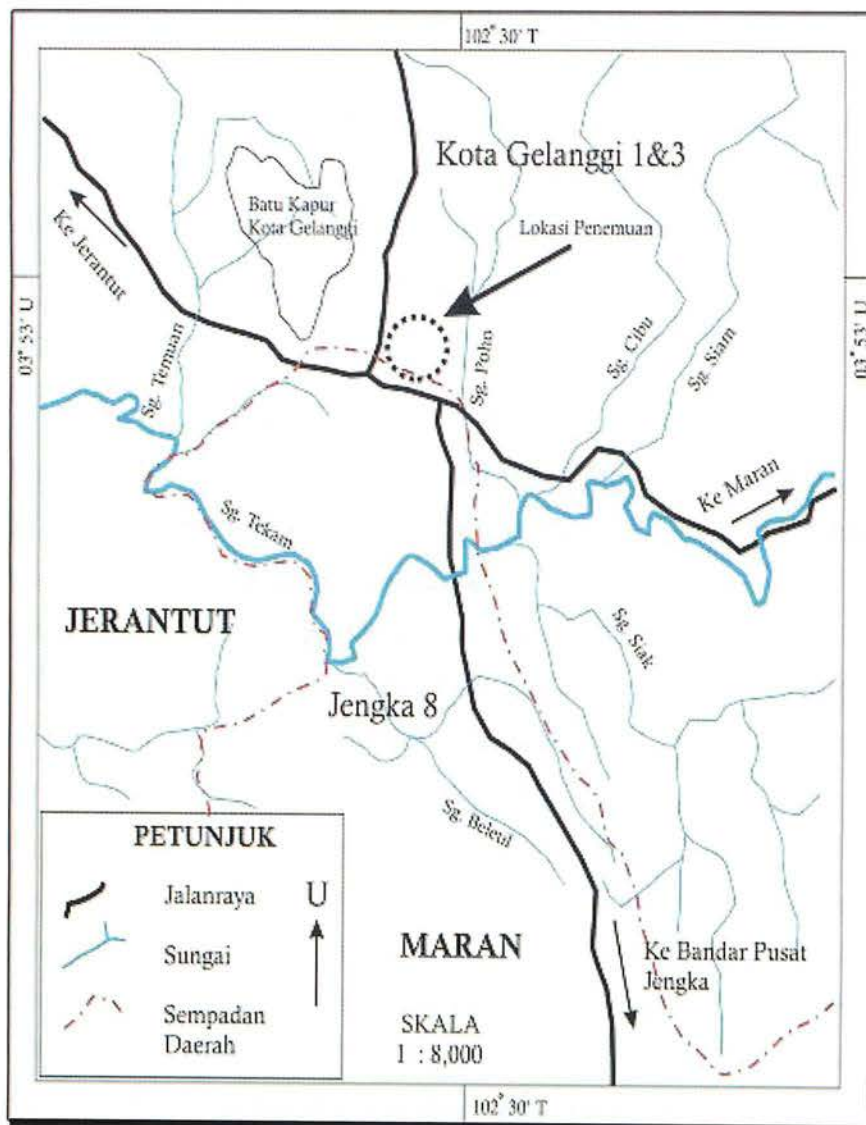
Abstract: A rich *Neocalamites* sp. bed was discovered in a construction site at Kota Gelanggi, Jerantut, Pahang. The species of this fossil can not be identified due to its poor preservation. This fossil is a part of the Gelanggi Flora which is found with *Cladiophlebis* sp., *Taeniopteris* sp., *Otozamites* sp. and *Equisetum* sp. This assemblage can be assigned to the Late Triassic to Early Jurassic.

Abstrak: Satu lapisan kaya *Neocalamites* sp. telah ditemui di sebuah tapak pembinaan di Kota Gelanggi, Jerantut, Pahang. Spesis bagi genus *Neocalamites* ini tidak dapat ditentukan kerana keadaan fosil yang teruk terluluhawa. Fosil tumbuhan ini adalah sebahagian dari Flora Gelanggi yang terhimpun bersama *Cladiophlebis* sp., *Taeniopteris* sp., *Otozamites* sp. dan Genus *Equisetum* sp. Himpunan ini boleh diletakkan pada usia Lewat Trias ke Jura Awal.

Fosil tumbuhan iaitu *Neocalamites* sp. telah ditemui di sebuah tapak perumahan di Kota Gelanggi, Jerantut (Rajah 1). Fosil dijumpai dalam lapisan batu lumpur putih yang dilapisi oleh lapisan syal merah. Perlapisan sedimen di kawasan penemuan memberikan bacaan arah kemiringan 40°/20° W (Foto 1). Ahmad Rosli (1999) dan Ibrahim (1985) telah meletakkan kawasan penemuan dalam Formasi Semantan. Manakala Tam (2004) mencadangkan bahawa kawasan penemuan adalah dalam Formasi Kerum yang berumur Trias Tengah ke Trias Lewat. Fosil dijumpai dalam bentuk tempelan (imprint) dan pengisian tuangan (pith casts) yang terdiri daripada serpihan batang dan cabang pokok (Foto 2) serta yang paling banyak ditemui berbanding fosil tumbuhan lain. Spesis bagi genus *Neocalamites* ini tidak dapat ditentukan kerana keadaan fosil yang teruk terluluhawa dan ini menyukarkan kerja-kerja diagnosis. Fosil tumbuhan lain yang boleh ditemui di kawasan tersebut adalah tumbuhan seperti paku-pakis (*Cladiophlebis* sp.), dan saikad (*Taeniopteris* sp., *Otozamites* sp.). Himpunan fosil tumbuhan ini dinamai sebagai Flora Gelanggi. *Cladiophlebis* sp. adalah dominan pada Trias Tengah (Holmes, 2000), *Taeniopteris* sp., dan *Otozamites* sp. dominan pada Jura Lewat (Alan Wesley, 1973) manakala *Neocalamites* pula dominan pada Trias Lewat dan pupus sehingga Jura Awal (Wilson, 1983). Berdasarkan himpunan fosil tumbuhan ini, penulis mencadangkan bahawa usia fosil tumbuhan tersebut adalah dari Trias Lewat ke Jura Awal.

Penemuan Fosil Tumbuhan *Neocalamites* sp. di Kota Gelanggi, Jerantut, Pahang.

Genus *Calamites* adalah tergolong dari divisi Sphenophyta dalam famili Calamitaceae. Genus ini mula tumbuh pada Lewat Devonian dan mula mengalami kepupusan pada Perm Awal. Pokok *Calamites* adalah dominan di kawasan berpayau, tasik atau berhampiran sungai. Pokok ini mencapai diversiti yang maksimum pada usia Karbon (360–290 juta tahun) dan adalah satu-satunya pokok arboresen yang boleh membiak sehingga Mesozoik. Pokok *Calamites* yang telah mengalami pengubahsuaian dan dapat terus hidup sehingga Jura Awal dikenali sebagai *Neocalamites* (Wilson, 1983 dan Thomas, 1981). Genus yang masih terus wujud sehingga kini hanyalah dari genus *Equisetum* (horsetail) dalam famili Equisetaceae seperti *E. giganteum*, *E. myriochaetum* dan *E. ervedense* yang mana mereka lebih merupakan tumbuhan herba yang hanya boleh didapati di Negara Amerika Latin seperti Brazil, Argentina dan Chile. Penulis percaya bahawa fosil genus *Equisetum* juga pernah wujud di kawasan penemuan hasil penemuan contoh tangan seperti dari Foto 3



Rajah 1 : Rajah menunjukkan kawasan penemuan fosil tumbuhan *Neocalamites* sp.

Penemuan Fosil Tumbuhan *Neocalamites* sp. di Kota Gelanggi, Jerantut, Pahang.

Kewujudan Sphenophyta di Malaysia pernah direkodkan oleh Kon'no & Asama (1970) di mana mereka menemui fosil tumbuhan di dua lokasi iaitu di Gunung Belumut, Johor (Flora Linggiu) dan di Jengka Pass, Maran, Pahang (Flora Jengka). Mereka menyatakan kedua-dua himpunan flora ini adalah berusia Perm Awal menghampiri usia Artinskian. Sphenophyta dari Flora Linggiu adalah *Calamites cf. suckowii* (batang pokok), *Annularia shirakii*, *Lobatannularia fujiyamae*, *L.johorensis* dan *L.suntharalingamii* (daun pokok). Manakala Sphenophyta dari Flora Jengka adalah *Annularia shirakii*, *Lobatannularia johorensis* dan *L.suntharalingamii* (daun pokok). Menurut mereka asalan flora-flora ini adalah dari Utara Cathysian. Genus *Lobatannularia* adalah hasil dari evolusi *Annularia*.

Berdasarkan penemuan fosil flora ini dapat disimpulkan bahawa tumbuhan pernah wujud di kawasan ini iaitu pada Trias Tengah hingga ke Jura Awal. Dapat ditafsirkan juga bahawa ada kemungkinan kedudukan paleogeografi kawasan penemuan adalah terletak berhampiran tanah besar Australia satu ketika dahulu sebelum 'hanyut' ke kedudukan sekarang ini. Ini adalah berdasarkan persamaan beberapa genus fosil tumbuhan di kawasan penemuan dan di New South Wales, Australia yang dikaji oleh Holmes, 2000

Penemuan Fosil Tumbuhan *Neocalamites* sp. di Kota Gelanggi, Jerantut, Pahang.

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Penemuan Fosil Tumbuhan *Neocalamites* sp. di Kota Gelanggi, Jerantut, Pahang.



Foto 1 : Fosil tumbuhan dijumpai dalam lapisan batu lumpur putih



Foto 2 : Antara fosil-fosil sebahagian daripada batang pokok *Neocalamites* yang ditemui di kawasan penemuan



Foto 3 : Contoh tangan menunjukkan fosil Genus *Equisetum* atau 'horsetail'



Foto 4 : Contoh tangan menunjukkan fosil batang pokok *Neocalamites* yang mempunyai jalur-jalur atau 'ribs' yang selari. Dapat diperhatikan juga buku dan ruas.



Foto 5 : Cabang *Neocalamites* iaitu tempat di mana daun atau kon biji benih tumbuh.



Foto 6 : Contoh tangan mempamerkan 'pith cast' atau pengisian sedimen di dalam batang pokok *Neocalamites*. Ditemui secara menegak di dalam lapisan batu lumpur.

CATATAN LAIN-LAIN (Other Notes)

GEOSCIENCE IN THE QURAN 3; “GEOSCIENCE IN THE QURAN”-AS A SUBJECT AT UNIVERSITY LEVEL FOR GEOSCIENTISTS

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Abstract

Since 1998/99, the Ministry of Education of Malaysia has made it compulsory for all university students to pass the subject, “Tamadun Islam dan Tamadun Asia (TITAS)”, i.e. Islamic Civilization and Asian Civilization before they can graduate. However, TITAS teaches only Islamic **civilization**. Islamic Quranic knowledge can be extended to the field of sciences. It has been highlighted during the last two GSM Annual Conferences (2004 and 2005) that many Quranic verses show beneficial knowledge related to geoscience. It is considered important that university students studying geoscience and other related courses should be encouraged to know what the Quran says about geoscience and be blessed with the knowledge gained. Some comments by well known scientists are given. Examples are also given where related Quranic knowledge are being taught in other disciplines (medicine, engineering and architecture, etc). It is proposed that “Geoscience in the Quran” should be introduced as an elective subject at university level, for all geoscience students and possibly, made compulsory for Muslim students.

Abstrak

Semenjak 1998/99, Kementerian Pendidikan Malaysia telah mewajibkan kepada semua pelajar-pelajar universiti tempatan lulus dalam matapelajaran “Tamadun Islam dan Tamadun Asia (TITAS)”, sebelum mereka mendapat ijazah masing-masing. Walau bagaimana pun, didalam TITAS hanya diajar perkara-pekerja yang berkaitan dengan tamadun sahaja. Didalam Quran boleh juga didapati ilmu-ilmu yang berkaitan dengan sains. Pada dua Persidangan Tahunan GSM yang lepas (2004 dan 2005), telah diterangkan ayat-ayat Quran yang memberi ilmu-ilmu yang bermanfaat tentang geosains Ilmu-ilmu ini sangat penting untuk pelajar-pelajar geosains dan kursus-kursus berkaitan diuniversiti supaya mereka mendapat keberkatan. Beberapa contoh pendapat saintis-saintis terkemuka telah diberi. Contoh-contoh juga diberi dimana ilmu-ilmu Quran diajar bersama didalam bidang lain seperti perubatan, kejuruteraan dan senibina. Amatlah baik sekiranya matapelajaran “Geosains didalam Quran” dapat diperkenalkan diuniversiti sebagai matapelajaran pilihan. Lebih baik lagi jikalau ia diwajibkan keatas pelajar-pelajar muslim.

INTRODUCTION

At the Annual Geological Conference (AGC) 2004 in Kangar, the writer summarised what the Quran says about geoscience in general, and it is conclusive that geological phenomena are mentioned in the Quran, but in many cases, not in so obvious ways, which only indicate the mysterious ways in which Allah wants us to do research and pursue for more knowledge in geoscience (Mokhtar, 2004). Subsequently, the well known earthquake and tsunami off the western coast of Sumatra occurred on 26th December, 2004. This prompted the writer to present the paper, Geology in the Quran 2, at the AGC 2005 in Seremban (Mokhtar, 2005). Many scientific papers have also been written by others; seminars and forums held on the subject of earthquakes and tsunamis (eg Tajul Anuar et al, 2005a,b). The Geology Department of the University of Malaya organized a “Tsunami Week”. This included a session on Tsunami and Religions, which was well attended. During the last one year, we heard of a major earthquake in Pakistan/India, landslide on the Island of Leyte, Phillipines, and the landslide on the island of Java, Indonesia and many other similar incidents worldwide. Many lives were lost because of these catastrophes. All these information further strengthens the need to know more about geoscience in the Religious Books. It is felt that there is a lot to be learnt from the Quran by geoscience students at the university level, hence this current paper.

KNOWLEDGE

The search for any beneficial knowledge should be in a blessed way. This is clearly explained by the Quran as follows.

QURANIC VERSES ON BLESSED KNOWLEDGE

The following verses form only one of the numerous places in the Quran on blessed knowledge. (Abdullah Yusof Ali, 2006).

Surah 96. The Clot, Read!

Verse 1. Proclaim! (or read!), **in the name of thy Lord and Cherisher**, Who created,

Verse 2. Created man, out of a (mere) clot of congealed blood:

Verse 3. Proclaim! And thy Lord is Most Bountiful,

Verse 4. He Who taught (the use of) the pen,

Verse 5. Taught man that which he knew not,

In simple words, these verses indicate that Allah wants mankind to learn, and He teaches mankind new knowledge, which they were previously ignorant. The important thing is, mankind should learn and obtain knowledge, **in the name of Allah**, so that knowledge gained is **blessed** by Him. Unblessed knowledge will bring badness to mankind.

GEOSCIENCE IN THE QURAN

To support the idea that knowledge needs to be blessed by Allah, the following are a few recent statements made by local writers.

1. Prof Dr Mohd Yusof Othman said 'Without religious guidance, science and technology will only lead this world towards destruction' (Zunaidah, 2006).
2. Ridzuan Awang said ' Knowledgeable mankind are afraid of Allah' (Ridzuan, 2006).
3. Prof Dr Syed Hussein Alatas wrote 'Alter things only after careful thinking with Allah's guidance' (Syed Hussein, 2006). One of the steps taken by the Malaysian Government towards blessed knowledge is by introducing TITAS.

ISLAM AND ASIA CIVILIZATION (TITAS)

Beginning in the 1998/99 university academic session, the Ministry of Education of Malaysia has introduced Islamic and Asian Civilization Studies (TITAS i.e. Tamadun Islam dan Tamadun Asia). It is compulsory for all university students to pass this subject in order to graduate. To suit its purpose, TITAS teaches only civilizations, including Islamic civilization. Islamic knowledge can be extended to the field of sciences, such as medical science, engineering, architecture, geo-science, etc.

GEOSCIENCE IN THE QURAN

Basic Islamic knowledge on science is mentioned at numerous places in the Quran. Taking geoscience in particular, and as mentioned earlier, the writer summarised what the Quran says about geology at the 2004 AGC. Subsequently, a paper on Quranic verses pertaining to tsunamis, earthquakes and volcanic activities was presented at the 2005 AGC. Realizing the importance of Quranic knowledge on geoscience, a brief survey on the Internet shows the following comments by scientists on the Quran:

1. Alfred Kroner, Professor of the Department of Geosciences, University of Mainz, Germany. (Sheikh Abdul-Majeed, 2006).

"Thinking where Muhammad came from... I think it is almost impossible that he could have known about things like the common origin of the universe, because scientists have only found out within the last few years with very complicated and advanced technological methods that this is the case." "Somebody who did not know something about nuclear physics 1400 years ago could not, I think, be in a position to find out from his own mind for instance that the earth and the heavens had the same origin, or many others of the questions that we have discussed here..."

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If you combine all these statements that are being made in the Qur'an in terms that relate to the earth and the formation of the earth and science in general, you can basically say that statements made there in many ways are true. They can now be confirmed by scientific methods, and in a way, you can say that the Qur'an is a simple science text book for the simple man. And that many of the statements made in there at that time could not be proven, but that modern scientific methods are now in a position to prove what Muḥammad said 1400 years ago."

2. Yushidi Kusan, Director of the Tokyo Observatory, Tokyo, Japan. (Sheikh Abdul-Majeed, 2006). "I say, I am very much impressed by finding true astronomical facts in Qur'an, and for us modern astronomers have been studying very small piece of the universe. We have concentrated our efforts for understanding of very small part. Because by using telescopes, we can see only very few parts of the sky without thinking about the whole universe. So by reading Qur'an and by answering to the questions, I think I can find my future way for investigation of the universe."

3. Professor Armstrong, Professor of Astronomy, University of Kansas, Lawrence, Kansas, USA. (Sheikh Abdul-Majeed, 2006).

"That is a difficult question which I have been thinking about since our discussion here. I am impressed at how remarkably some of the ancient writings seem to correspond to modern and recent Astronomy. I am not a sufficient scholar of human history to project myself completely and reliably into the circumstances that 1400 years ago would have prevailed.

Certainly, I would like to leave it at that, that what we have seen is remarkable. It may or may not admit of scientific explanation. There may well have to be something beyond what we understand as ordinary human experience to account for the writings that we have seen."

4. William Hay, Professor of Oceanography, University of Colorado, Boulder, Colorado, USA. (Sheikh Abdul-Majeed, 2006).

"I find it very interesting that this sort of information is in the ancient scriptures of the Holy Qur'an, and I have no way of knowing where they would have come from. But I think it is extremely interesting that they are there and this work is going on to discover it, the meaning of some of the passages." And when he was asked about the source of the Qur'an, he replied, "Well, I would think it must be the divine being."

5. Durja Rao, Professor of Marine Geology, King Abdulaziz University, Jeddah, Saudi Arabia. (Sheikh Abdul-Majeed, 2006).

"It is difficult to imagine that this type of knowledge was existing at that time, around 1400 years back. May be some of the things they have simple idea about, but to describe those things in great detail is very difficult. So this is definitely not simple human knowledge. A normal human being cannot explain this phenomenon in that much detail. So, I thought the information must have come from a supernatural source."

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6. Professor Siaveda, Professor of Marine Geology, Japan. (Sheikh Abdul-Majeed, 2006).

“I think it seems to me very, very mysterious, almost unbelievable. I really think if what you have said is true, the book is really a very remarkable book, I agree.”

7. Tejjatat Tejasen, Chairman of Anatomy and former Dean of Faculty of Medicine, University of Chiang Mai, Chiang Mai, Thailand. (Sheikh Abdul-Majeed, 2006).

”In the last three years, I became interested in the Qur’an... From my studies and what I have learned throughout this conference, I believe that everything that has been recorded in the Qur’an fourteen hundred years ago must be the truth, that can be proved by the scientific means. Since the Prophet Muḥammad could neither read nor write, Muḥammad must be a messenger who relayed this truth which was revealed to him as an enlightenment by the one who is eligible creator. This creator must be God, or Allah. I think this is the time to say *La ilaha illa Allah*, there is no god to worship except Allah (God), Muḥammad rasoolu Allah, Muḥammad is Messenger of Allah.. The most precious thing I have gained from coming to this conference is *La ilaha illa Allah*, and to have become Muslim.”

8. Dr. Maurice Bucaille, Formerly chief of the Surgical Clinic, University of Paris, France. (Sheikh Abdul-Majeed, 2006).

“...our knowledge of these disciplines is such, that it is impossible to explain how a text produced at the time of the Qur’an could have contained ideas that have only been discovered in modern times.”

“The above observation makes the hypothesis advanced by those who see Muḥammad as the author of the Qur’an untenable. How could a man, from being illiterate, become the most important author, in terms of literary merits, in the whole of Arabic literature?

How could he then pronounce truths of a scientific nature that no other human-being could possibly have developed at that time, and all this without once making the slightest error in his pronouncement on the subject?”

QURANIC KNOWLEDGE ON SCIENCES AT UNIVERSITY LEVEL

Another brief survey on the Internet reveals that the International Islamic University of Malaysia (IIUM) has made it compulsory for students to take subjects related to Islamic knowledge in disciplines other than Islamic Studies (IIUM, 2006). Some examples are given below:

1. In the Faculty of Engineering, students must take the following subject:
‘Engineering Professional Ethics from Islamic Perspective’ -Course: GEN 3000-3 credit hours (IIUM, 2006a).

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2. In the Department of Economics, department required courses include 'History of Islamic Economic Thought'-Course: ECON 4010-3 credit hours (IIUM, 2006b).

3. In the Faculty of Medicine, Clinical Skill Development & Islamic Revealed Knowledge are taught in the following modules (IIUM, 2006c):

- * Elementary Clinics
- * General Surgery
- * Women's Health and Diseases
- * General Paediatrics
- * Internal Medicine
- * Junior Clerkship

4. In the Faculty of Architecture and Environmental Design, students must take 'Quran, Sunnah and the Built Environment'- Course: AAR 1230, 3 credit hours (IIUM, 2006d).

Being an Islamic university, it is natural for IIUM to stress on Islamic knowledge in the other disciplines. However, it is considered useful if similar actions are done in the other universities. Taking geoscience in particular, the writer proposes that 'Geoscience in the Quran' should be taught as a subject at university level, as an elective subject to start with.

SUBJECT OF GEOSCIENCE IN THE QURAN

RATIONALE

'Geo-science in the Quran' as a subject of knowledge may be considered as a part of the Malaysian Government's drive on the dissemination of **Islam Hadhari**. It is very important to learn about this planet 'Earth'. Who and how and when was it created? How and when were life forms and mankind created? How did life forms and mankind survive? Why are there so many catastrophes on this earth? Questions of similar nature are endless. The answers should be made known to all mankind. Geoscientists seem to know the answers, but catastrophes involving loss of great number of human lives, continue to occur. There seems to be a missing link. Lack of **blessed knowledge and application** is one of the answers. The religious aspects of geoscience should be researched into. This can only be obtained from the Holy Books. Knowledge from the Quran will be a good, if not the best place to start with. The appropriate place to implement will be at the university level. If successful, relevant syllabus on elementary geoscience can be introduced or up-graded at pre-university level and secondary schools.

GEOSCIENCE IN THE QURAN

MAIN PURPOSE

Broadly speaking, the main purpose is to educate students studying geo-science on the religious aspects of geoscience, and to encourage research with religious guidance. The overall knowledge in geoscience gained will be appreciated to a higher level, with a broader scope of understanding. Subsequently, professional practices will undoubtedly be **blessed** and this earth will be a better place to live.

CONCLUSIONS

It can be concluded that the study of geoscience should start with a basic knowledge of geoscience in the Quran, so that knowledge gained and its applications will be **blessed**, for a better world to live in. There will be lesser loss of human lives and properties resulting from geological catastrophes or geohazards.

RECOMMENDATIONS

In line with the dissemination of knowledge through Islam Hadhari, it is recommended that the subject of 'Geoscience in the Quran' should be introduced as an elective subject for students doing geoscience and related subjects at university level. It may be necessary to make it compulsory for Muslim geoscience students. If this conceptual proposal is acceptable, then a more detail study should be done towards implementation.

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{ Manuscripts received on 12 April 2006 }

PERTEMUAN PERSATUAN (Meeting of the Society)

**PERSATUAN GEOLOGI MALAYSIA
GEOLOGICAL SOCIETY OF MALAYSIA**



**41st ANNUAL GENERAL MEETING
&
ANNUAL REPORT 2006**

27th APRIL 2007

@

**EASTIN HOTEL,
PETALING JAYA, SELANGOR**

**PERSATUAN GEOLOGI MALAYSIA
GEOLOGICAL SOCIETY OF MALAYSIA**

MINUTES OF THE 40TH ANNUAL GENERAL MEETING 2006

Minutes of the 40th Annual General Meeting (2006) held at the Singgahsana Hotel, Petaling Jaya, Selangor at 5.20pm on the 29th April 2006.

Present

K. Narayanamoorthy
Ahmad Nizam Hasan
Datuk Fateh Chand
Nur Iskandar Taib
Lau YinLeong
Mokhtar Ghani
C. S. Hutchison
Tan Boon Kong
Teh Guan Hoe
Azman A Ghani
Gan Lay Chin
Jasmi Ab Talib

Yunus Abd Razak
Samsudin Hj Taib
Jasmi Hafiz Abdul Aziz
Lee Chai Peng
Askury Abdul Kadir
Joy Pereira
Ng Tham Fatt
Ling Nan Ley
S. Paramanathan
Kamar Shah
Mohd Rozi Umor
T.T. Khoo

It was noted that there was enough quorum for the meeting. The President welcomed the members who were present at the AGM and support the GSM activities. He expressed an apology to members for the difficulties to get updated bulletin and newsletters. Hopefully, we try our best for 2006/2007 with a strong support from members.

1. Confirmation of the Minutes of the Previous AGM (2005)

The Minutes of the 39th AGM 2005 were proposed by Samsudin Hj Taib and seconded by Tan Boon Kong.

2. Matters Arising

None

3. President's Address

The President addresses to the meeting about the draft roadmap of a strategic plan of the Society for the future. This past year has been an active year for the Society hosting the Annual Geological Conference and the Petroleum Geology Conference & Exhibition and technical talks, we have added to what has been done in previous years by networking with others to improve on our activities. We have continued to build strong links with other organizations such as COSTAM, IGM and IEM. The Society was honoured by a visit from AAPG President Dr. Pete Rose who gave a talk on "Professional careers in the coming global energy transition" at the Department of Geology University of Malaya. The Annual Geological Conference 2005 was really completed our intention to organize an AGC in every state of

Malaysia. We shall be stating another round of AGCs with different name and approach as National Geoscience Conference (NGC) in 2006.

The declining attendance in some of activities organized by the society was also highlighted. Not many members have signed up despite more graduates are coming out of the increased number of geoscience graduates in the country.

The abrupt resignation of the Editor, Dr. Liew Kit Kong, at the beginning of his term had affected the Society's publications adversely. We would like to personally thank Dr. Nur Iskandar Taib, Dr. Ahmad Tajuddin Hj Ibrahim, Dr. Ng Tham Fatt and Dr. Joy Pereira for stepping in at short notice to keep the Society's publications going.

He expresses sincere thanks to all Exco members, working group chairmen, conference organizers and sponsors, Ms. Anna and her helpers and all who have volunteered their services in support of the Society's activities for their dedication and hard work to keep the Society going.

Clarifications/suggestions

Prof. Hutchison: It was rather embarrassed to GSM because of Editor's resignation. What was the council reaction on this matter?

President: We tried to persuade him to stand until the end of term, but it was unsuccessful. This will not happen next time.

Paramanathan: Letters on the website @ yahoo group regarding the resignation of Editor was very bad. The Council has to take positive actions and limit them to certain topics for discussion. It must be discussed within the Council and protect them from spread out to other countries.

Gan LC: The President has to take immediate action to clear the air. It needs to rise up during AGM not through an email or internet. If they do so, they have to resign from Council Member.

Tan BK: The President needs to give a statement immediately for the GSM stand.

The President's Report 2005 were proposed by Paramanathan and seconded by Joy.

4. Secretary's Report

The Secretary reported that the Council for 2005/2006 session met for 8 times at the Department of Geology, UM. The Council was supported by 10 Working Groups and State Representatives.

He also highlighted that the Society also was represented in outside bodies i.e. COSTAM and AAPG. As at 31 December 2004, the total numbers of member in the Society stands at 524, a decrease of 8% over the previous year total of 570.

The 20th Annual Geological Conference 2005 was successfully held on 4-6 June 2005 at Allson Klana Resort, Seremban, Negeri Sembilan while the 27th Petroleum Geology Conference & Exhibition 2005 was successfully held on 6-7th December 2005 at Hotel Istana, Kuala Lumpur.

In between the two core activities of the Society, three other activities became permanent in the Society calendar are the GSM-IEM Forum, Seminar on Geophysics and Photographic Competition organized by WG on Engineering Geology/Hydrogeology, WG on Geophysics and WG on Promotion of Geoscience respectively. Other activities were two seminars and 12 technical talks.

He also reported on the status of the Society's Award (Best Student Award, Young Geoscientist Award and Geoscientist Award) and Loan (especially on the non-performance loan (NPL) repayment), Society's effort on earthquake and tsunami, GEOSEA status, the proposed collaboration between GSM and Geological Club at universities and permanent secretariat status.

The Secretary voiced the Council's acknowledgement of thanks to all individuals and organisations (members and/or non-members) that have helped in one way or another in the organising of the Society's activities during the 2005/2006 session.

Suggestion

Datuk Fateh: A) He suggested that the GSM should take part on the study of earthquake as a Committee Member which is headed by the Akademi Sains Malaysia. It is beneficial and involves million of Ringgit.

The Secretary's Report 2005 were proposed by Prof. Hutchison and seconded by Gan Lay Chin.

5. Assistant Secretary's Report

The Assistant Secretary's Report was presented by Secretary. He highlighted that the sale of the Society publications showed better improvement compared to previous year. There are 61 organisations that exchanging publications with the Society. Secretary highlighted that he will pursue for more publications from other organizations.

Datuk Fateh: He suggested the GSM to provide a mailing list of publications to Akademi Sains Malaysia. The academy will buy some publications for their library.

6. Editor's Report

The Acting Editor (Dr. Nur Iskandar) was responsible for producing GSM Bulletin Volume 51 for the 2005 Annual Geological Conference and the program book for the 2005 Petroleum Geology Conference and Exhibition. During this time period, Dr. Ahmad Tajuddin produced the Warta Geologi and Ng Tham Fatt produced the 2006 GSM Calendar. The outstanding bulletins are Bulletin 49, 50 and 52 are in work of editorial process.

Clarifications/Suggestions

Prof. Hutchison: A) He would like to congratulate the GSM for having the best website within the region. B) He suggested the Warta need to put into the high level. For example, the last issue was useless and nothing important inside that.

Paramanathan: Warta Geologi needs to come out very fast to distribute news to members. He suggested to appoint young Editor to upgrade the quality for the benefit of members.

Datuk Fateh: A) The council has to discuss into detail whether Warta Geologi need to print out or just base on website. B) News or articles for geological development in Malaysia or region must put in the Warta Geologi. C) The compilation of minerals in Malaysia is useful for member. However, it is only distribute among Minerals and Geoscience Department offices, and the GSM needs to do something for sharing the information.

The Editor's Report 2005 were proposed by Tan BK and seconded by Shamsudin.

7. Treasurer's and Honorary Auditor's Report

The Treasurer presented his report by highlighting that the Society posted a financial surplus of RM162,424.00 for the financial year 2005, compared to deficit recorded for financial year 2004 at RM49,746.00. The net current asset has increase from RM394,263.00 to RM556,687.00.

Operating revenue tremendously increased from RM197,187.00 to RM261,304.00. The increase revenue mainly from PGCE 2005 gain by RM238,013.00 compared to RM169,108.00 for PGCE 2004.

Total operating expenditure for Financial Year 2005 was RM98,880.00 saving of RM48,561.00 compared to RM147,441.00 for 2004.

The Treasurer would like to express a great appreciation to all the donors and sponsor for their contributions and support that contribute to increase of total revenue. He would like to thanks an Ad-Hoc committee of PGCE 2005 for the effort by implementing wise and profitable budget.

Suggestion

Gan LC: The council has to clarify about tax payment from the tax agency.

The Treasurer's Report 2005 were proposed by Lau YinLeong and seconded by Shamsuddin.

8. Proposed Amendment of Constitution and By-Law

The Secretary sent letters to ROS for the amendment, however it is still studying by the authority.

9. Election of Honorary Auditor

The meeting unanimously agreed to elect S.F. Lee & Co as the Honorary Auditor for Year 2006.

10. Other Matters

10.1 **Prof Teh Guan Hoe** suggested for the benefit of members, the event organized by the GSM must be reported and extracted into Warta Geologi. Another thing, papers for publication was not sent on time and the council has to upgrade the delivery system.

10.2 **Gan LC** suggested the calendar of event need to restore again within Warta Geologi.

10.3 **TT Khoo** suggested on encouraging students to write some news discoveries. It will be like an initial report comprising of a short note.

11. Announcement of New Council for 2006/2007

President	:	Lee Chai Peng
Vice-President	:	Yunus Abdul Razak
Secretary	:	Askury Abd Kadir
Assistant Secretary	:	Mohd Rozi Umor
Treasurer	:	Ahmad Nizam Hasan
Editor	:	Lau YinLeong
Councillors (1 years)	:	Tan Boon Kong Samsudin Hj Taib Vacant Vacant
Councillors (2 year)	:	Ahmad Tajuddin Ibrahim Nur Iskandar Taib Jasmi Hafiz Ab Aziz Vacant
Immediate Past President	:	Mohd Shafeea Leman

The President thanks the attendees and welcomed support from all members to bring the Society to greater heights. He urged all members to turn up and continue support in any GSM activities. The meeting adjourned at 7.15pm.

ASKURY ABD KADIR
Secretary 2006/2007

PRESIDENT'S REPORT 2006/07

This past year has been a most active year for the Society. There were a number of firsts for the Society. Having completed the series of Annual Geological Conferences in 2005, we started the new series of National Geoscience Conference by organizing the first one together with the Department of Geology, University of Malaya to celebrate their 50th Anniversary. It was organized by a committee comprising mostly Geology Department staff from University of Malaya under the leadership of Associate Prof. Dr. Samsudin Hj. Taib and held at the Armada Hotel in Petaling Jaya from 12 - 13 June 2006.

The Petroleum Geology Conference and Exhibition was jointly organized with PETRONAS from 27 to 28 November 2006 under the committee headed by En. Salahuddin Saleh. The Society also participated in the GEO Asia 2006 Conference and Exhibition on 14 June 2006 hosted by Malaysian Exhibition Services Sdn Bhd. by organizing a day of technical presentations under the chairmanship of Prof. Dr. Denis Tan from the University of Malaya. Both the petroleum geology events were held at the newly opened Kuala Lumpur Convention Centre in a ground breaking departure from our past practice of holding our PGCE in a Kuala Lumpur hotel as the normal venue. This year's PGCE was a huge success with a record breaking number of over one thousand participants. In addition to hosting the usual events such as the national geoscience conference and the PGCE, we have continued to network with others such the Kuala Lumpur Explorationists group of SEAPEX to widen our activities.

The various working groups continued to hold technical talks and other activities related to their special interests. We have continued to build strong links with other organizations. The President continues as a member of the COSTAM Executive Committee and is an Editor for the Journal of Science & Technology in the Tropics published by COSTAM. We continue to take part in joint meetings with the Institute of Geologists Malaysia and also Institution of Engineers Malaysia. AAPG set up a booth at our GEO Asia Conference and has expressed interest in continuing to work with GSM during the President's visit to participate in their 26th Annual AAPG Leadership Conference in Tulsa, Oklahoma in February 9-11, 2007.

I would like to take this opportunity to thank all GSM Exco members, chairmen of working groups and many good friends and members of our Society who have contributed their time and effort to keep the Society going and growing. We are certainly one of the most active special interests societies around that has been able to do so much with so little in terms of staff. Our thanks go to Ms. Anna Lee and her few part time helpers who have made this possible. I have full confidence that if we continue to dedicate ourselves to work for the good of the Society, we will have a bright future to look forward to.

Prof. Dr. Lee Chai Peng
President 2006/2007

SECRETARY'S REPORT 2006/2007

1.0 Introduction

On behalf of the Council of the Geological Society of Malaysia (GSM), it is my great pleasure to present the 41st Annual Secretary Report for session 2006/2007.

2.0 The Council

The new Council for the Geological Society of Malaysia (GSM) for 2006/2007 session presumed their office after the 40th AGM on 29th April 2006.

2.1 Council Members

The Council Member for 2006/2007 as follow:

President:	Lee Chai Peng (Universiti Malaya)
Vice President:	Yunus Abdul Razak (Jab. Mineral dan Geosains)
Hon. Secretary:	Askury Abd. Kadir (Jab. Mineral dan Geosains)
Asst. Secretary:	Mohd Rozi Umor (Universiti Kebangsaan Malaysia)
Treasurer:	Ahmad Nizam Hassan (Cadence Tech. Serv. S/Bhd)
Editor:	Lau YinLeong (Ginn-M Corporation Sdn Bhd)

Council members:

(2006/07)	Tan Boon Kong (Freelance) Samsudin Hj Taib (Universiti Malaya) Gan Lay Chin (Freelance) Ling Nan Ley (JKR)
(2006/08)	Ahmad Tajuddin Ibrahim (Universiti Malaya) Nur Iskandar Taib (Universiti Malaya) Jasmi Ab. Talib (MACRES) Jasmi Hafiz Abdul Aziz (Universiti Malaya)

Imm. P/ President: Mohd Shafeea Leman (Univ. Keb. Malaysia)

2.2 Council Meeting

During the 2006/07 session, 7 council meetings were held. The attendances of council members are presented in Table 1 below. All meetings were conducted at the meeting room of the Department of Geology, University of Malaya, started at 5.30 pm.

Table 1: Attendance of Council Members at Council Meeting

NAME	2/6/06	25/7/06	12/9/06	22/11/06	26/16/06	6/2/07	27/3/07
		6	6				7
Lee Chai Peng	/	/	/	/	/	/	/
Yunus Abd Razak	/	0	0	0	/	/	0
Askury Abd Kadir	/	0	/	/	X	X	X
Mohd Rozi Umor	0	/	0	/	/	/	/
Ahmad Nizam	/	0	/	0	0	0	0
Lau Yin Leong	/	/	/	/	0	0	0
Tan Boon Kong	0	0	/	/	/	0	/
Samsudin Taib	/	/	/	/	/	/	/
Nur Iskandar Taib	/	/	/	/	/	/	/
Ahmad Tajuddin	/	0	/	0	0	0	0
Jasmi Ab. Talib	X	X	/	/	/	0	/
Jasmi Hafiz	/	/	/	0	0	/	0
Gan Lay Chin	X	/	/	/	/	/	/
Ling Nan Ley	X	X	/	/	/	/	/
Mohd Shafeea	0	0	0	0	0	0	0

Note: / = present, 0 = absent with apology, X = newly appointed/transferred

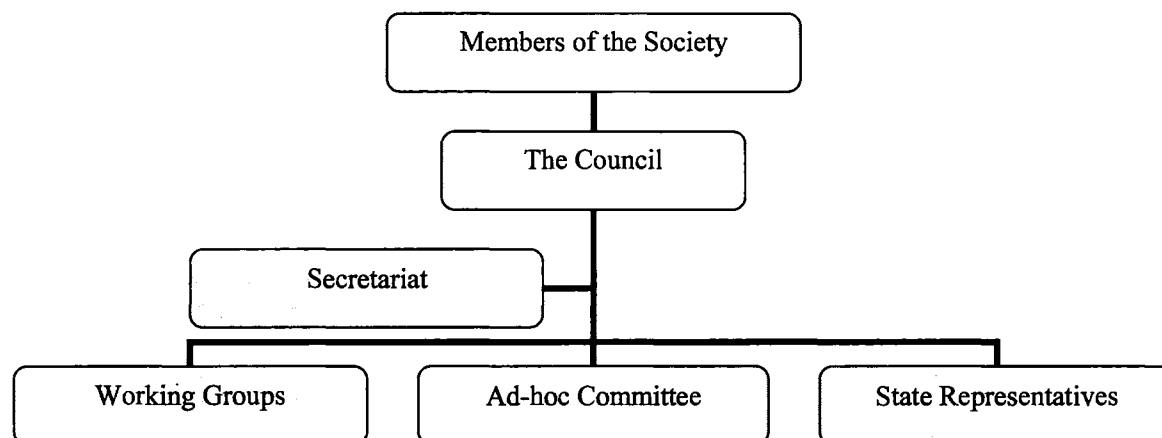
3.0 Society Structure

The Society's stakeholders are the members of the Society led by an elected Council. The Council's main functions were to set directions to promote the advancement of geosciences, endorse the society activities and provide guidance for the execution of the activities of the Society.

The Council was assisted by the Secretariat, the one and only Ms Anna Lee. The Secretariat assisted the society in the administration of day-to-day activities of the Council, Working Groups and State Representatives.

The Council was also supported by 10 Working Groups and State Representatives. The Working Groups' main function is to promote advancement and exchange of knowledge in specific geoscience areas. The State Representatives' main function is to promote geosciences and implement the mission of the society within geographical area. The Organisation Chart of the Society is presented in Figure 1.

Figure 1: Organisation Chart of the Society



3.1 Working Groups

In March 1987, five (5) Working Groups were set up namely Working Group on Engineering Geology and Hydrogeology, Working Group on Economic Geology, Working Group on Stratigraphy and Sedimentology, Working Group on Structural Geology and Tectonics and Working Group on Petroleum Geology. The Working Group on Environmental Geology was formed in 1996. The Working Group for the Promotion of Geosciences, Working Group on Geophysics and Working Group for Young Geoscientists was formed in 1998, 1999 and 2000 respectively. The Working Group on Website was formed in 2003.

3.2.1 Working Group for the Promotion of Geoscience (WGPG)

The WGPG for 2006/2007 was chaired by Mohd Rozi Umor of University Kebangsaan Malaysia. The WGPG managed to organize the Photographic Competition 2006.

3.2.2 Working Group on Structural Geology & Tectonics (WGSG&T)

The WGSG&T for 2006/2007 was not active because of difficulties to appoint a chairman.

3.2.3 Working Group on Stratigraphy & Sedimentology (WGSS)

The WGSS for 2006/2007 was inactive due to the difficulties to get a Chairman.

3.2.4 Working Group on Engineering Geology and Hydrogeology (WGE&H)

The WGE&H for 2006/2007 was chaired by Tan Boon Kong. The main annual event organized was the GSM-IEM Joint Forum, named as Oktoberforum 2006

on “Engineering Geology and Geotechnical Engineering” on 31/10/2006. The Working Group also organized a number of technical talks.

3.2.5 Working Group on Economic Geology (WGEG)

The WGEG for 2006/2007 was headed by Lau Yin Leong of Ginn-M Corporation Sdn Bhd. A lecture on the “Phenomenal Gems” was delivered by Marilyn Lau.

3.2.6 Working Group on Petroleum Geology (WGPetG)

The chairmanship for WGPetG is still vacant throughout 2006/2007 due to difficulty to find volunteers to chair this Working Group. However, the PGC&E 2006 was successfully organized by the Organizing Committee lead by Petronas which broke a record on attendance and exhibitors.

3.2.7 Working Group on Environmental Geology (WGenvG)

The Working Group on Environmental Geology & Hydrogeology (WGEv&H) was headed by Dr. Wan Zulhairi Wan Yaacob.

3.2.8 Working Group on Geophysics (WGG)

The WGG for 2006/2007 is currently being chaired by Zuhar Zahir Tuan Harith of Universiti Teknologi PETRONAS. The WGG has planned to organize a One Day Seminar on Engineering Geophysics with co-sponsor by UTP by December 2007 in Ipoh.

3.2.9 Working Group on Website (WGW)

The WGW for 2006/2007 was headed by Lim Chee Keong of ENSR Corporation Sdn Bhd. The website serves as a platform for networking and promotion of geosciences in the internet. The upgrading of the Society website by Nur Iskandar Taib is ongoing. The Working Group now is ready to disseminate information virtually. All members are urged to give their email address for faster communication.

3.2.10 Working Group for Young Geoscientists (WGYG)

The WGYG for 2006/2007 was chaired by Jasmi Hafiz Abdul Aziz of Universiti Malaya. The Working Group planned to organize a “Post-graduate Seminar” in 2007.

4.0 Representatives to outside body

The Society was represented in two (2) outside bodies i.e. The Confederation of Scientific and Technological Association of Malaysia (COSTAM) and the American Association of Petroleum Geology (AAPG).

4.1) COSTAM

The Society was represented by the President, Secretary, Assistant Secretary and two Council Members. The President was elected as a Council Member of COSTAM.

4.2) AAPG House of Delegate

The Society was represented by Rashidah Karim of Petronas Bhd with Mazlan Madon of Petronas Group Research as alternative representative.

5.0 Membership

As at 1st April 2007, the total numbers of members in the Society stands at 518 and this is an increase of about 8.6% over the previous year total of 477. Lecturers who are members are urged to encourage their students to join the Society. Table 2 presented the breakdown of the type of membership and their geographical regions.

Table 2: Breakdown of Membership

COUNTRY	Full	Life	Inst.	Student	Associate	Honorary	Total 2006	Total 2005
Australia	3	16	1	-	-	-	20	18
Brunei	-	1	-	-	-	-	1	2
Canada	-	2	-	-	-	-	2	2
Europe	3	8	1	-	-	-	12	12
Hong Kong	-	1	-	-	-	-	1	1
Indonesia	2	6	-	-	-	1	9	7
Japan	-	4	-	-	-	-	4	4
Africa	-	4	-	-	-	-	4	4
Philippines	-	2	-	-	-	-	2	2
Singapore	2	6	1	-	-	-	9	7
Thailand	-	2	-	-	-	-	2	2
USA	-	9	-	-	-	-	9	9
Malaysia	145	142	6	143	4	3	443	407
TOTAL	155	203	9	143	4	4	518	477

6.0 Activities

The Society had successfully organized its two major events, the National Geoscience Conference (NGC) and the Petroleum Geology Conference and Exhibition (PGCE) in 2006. Nevertheless, there are two other events in the calendar of the Society, i.e. the GSM-IEM Forum (GIF – recently called *Oktoberforum*) which was held annually since 1992 without fail and the new annual event. While, the NGC and PGCE were organized by specific Organizing Committees directly under the Council, the GIF was organized by Working Groups of Engineering Geology & Hydrogeology. The Society also organized GEO Asia 2006 with Malaysian Exhibition Services. Other annual event is the GSM Photographic Competition 2006 handled by the Working Group of Promotion of Geoscience.

6.1 20th Annual Geological Conference 2006

The 20th Annual Geological Conference was officially changed to the National Geoscience Conference 2006 (NGC 2006) for the new era on rotation from one state to the others. The NGC 2006 was successfully held from 12 to 13 June 2006 at Armada Hotel, Petaling Jaya, Selangor with strong support by the University of Malaya for their 100 years celebration.

A total of 75 participants were registered for the conference where a total of 36 papers were orally presented. A post conference site visit to the SMART Tunnel on 14th June 2006 was successfully done.

We also wish to record our appreciation to the Organising Committee headed by Dr. Shamsuddin Taib of Universiti Malaya who managed to get a generous sponsorship from UM.

6.2 GEO Asia Conference 2006

The conference was held on 14/6/2006 at KL Convention Centre where Prof. Denis Tan appointed as an Organizing Chairman. A total of 10 papers presented in oral and four papers on poster with about 130 participants.

6.3 28th Petroleum Geology Conference and Exhibition 2006 (PGCE 2006)

The PGCE 2006 was jointly organized by the Society and PETRONAS this year and held on 27-28th November 2006 at KL Convention Centre, Kuala Lumpur. The opening was officiated by En. Mohd Johari Dasri, the MD/CEO PETRONAS CARIGALI on behalf of the Vice President, Exploration and Production Business, PETRONAS Berhad, En. Abdullah Karim. The event attracted a crowd of about 1,200 participants (including exhibitors). A total of four key note addresses were delivered by experts on 'Exploration Industry', 'Petroleum Geology', 'Petroleum Geophysics' and 'New Technology'. Eighty technical papers were received and 40 papers were selected for oral presentation and another 18 as poster presentations.

The Council wishes to convey its greatest thanks to each and every member of the Organizing Committee for their untiring efforts under the excellent leadership of En. Salehuddin Saleh. The generous support by PRAM and PCSB Management in Petronas contributed to a major job very well done professionally. Thanks also to all donors and sponsors who helped made the PGCE 2006 a success.

A discussion regarding the future of PGCE to be more responsive and dynamic was conducted on the 18th August 2006 between Petroleum and Gas Manager of Petronas (En. Effendy Cheng) and the GSM top management. The agreed understandings are as follows:-

- i. Booking fees for the hotel/venue will be borne by GSM.
- ii. Only one O&G Exhibition per year to attract more participation from industries.
- iii. It is a heavy burden for the Petronas staff to volunteer in organising the PGCE on a part time basis because the PGCE is a recognized international event.

- iv. It is the right time to organize the PGCE professionally with the help of an event organiser.
- v. In future, Petronas will organize the event and GSM as co-organiser will contribute to marketing and credits.

6.4 GSM-IEM Forum on Engineering Geology and Geotechnics

The GSM-IEM Oktoberforum 2006 with the theme “Engineering Geology and Geotechnical Engineering” was jointly organized by the Working Group on Engineering Geology and Hydrogeology, GSM and the Geotechnical Engineering Technical Division, IEM on the 31 October 2006 at the Armada Hotel, Petaling Jaya. This forum was the 14th series in the series of such forums initiated by GSM since 1992.

A total of 12 papers were presented at the forum, mostly from the consultant engineers (7) and geologists (5). Response to the forum was overwhelming with approximately 200 participants registered for the event.

6.5 National Geoscience Conference 2007

The National Geoscience Conference (NGC 2007) will be held from 7 to 9 June 2007 in Kota Kinabalu, Sabah. The event will jointly organize by JMG-UMS where En. Alex Yan of JMG and Prof. Dr. Sanuddin of UMS were appointed jointly as organizing chairmen.

6.6 GSM Photographic Competition 2006

The results for the 2006 Photo Competition will be announced after the AGM 2007.

6.7 Others

During this session, the Council with cooperation of the Working Groups, and other organization were able to organize several technical talks, seminars and fora. The details of these activities are presented in Table 3.

Table 3: Summary of other activities

Date	Nature	Activity / Topic	Speaker	Organiser
25/5/06	Talk	The Asian Tsunami of 2004 : Observations and numerical simulation	Dr. Kenji Satake	GSM
21/6/06	Talk	Malam Jurutera/Engineers Nite 2006 i. Deep soil mixing ii. Pile testing iii. Basement construction	i. Ir. Yee Yew Weng (Keller) ii. Chong Mun Fai (Dynamic Pile Testing) iii. Ir. Dr. Chin Yaw Ming (Consultant)	GSM, IEM & IGM
12/7/06	Talk	Phenomenal Gems	Ms. Marilyn Lau	GSM and UM
11/9/06	Talk	Sundaland is unusual: Why	Dr. Robert Hall	GSM & AAPG

		you should be excited to live there		
20/9/06	Talk	Malam Tunelling i. Geotechnical aspects of the SMART Tunnels ii. Grouting works for the SMART Tunnels iii. Tunneling activities in Malaysia	i. Simon Tan, S.M. (SSP Geotechnics) ii. Yee Y.W. (Keller) iii. AP Tan B.K. (UKM)	GSM & IEM
22/9/06	Talk	Intelligent design theory in discussions on origins	Emeritus Prof. Dr. Robert Newman	GSM
19/10/06	Talk	Petroleum system in rift basins – a collective approach in SEA Basin	Prof. Harry Doust	GSM
15/11/06.	Talk	A glimpse of Engineering Geology and Rock Mechanics in Malaysia	En. Tan Boon Kong	GSM
25/01/07	Talk	The Genesis of Sediment-hosted Stratiform Copper Mineralization: Its relationship to Influx of Evolved Meteoric Water and the Diagenetic Reddening of Footwall Sediments	Prof. A.C. Brown	GSM
21/3/07	Talk	Malam Cerun/JKR iii) The Slope Engineering Branch, PWD : An introduction ii. SMART (Slope Management and Risk Tracking) : System Architecture iii. SMART : System Application	i) Ling Nan Ley (JKR) ii) Hj Abu Harith Samsuddin (JKR) iii) Melati Mudzaffar Ali (JKR)	WGEG&H, IEM and IGM
2/4/07	Talk	Significance and recognition of mass-transport deposits in deepwater environments	R. Craig Shipp	GSM and AAPG

7.0 GSM Awards and Loan

GSM had set up various Awards for members and Loan Fund for student members as follow:

7.1 Honorary Membership

To-date, GSM had conferred Honorary Membership status to 3 consecutive persons:

- i) Prof H. D. Tjia,
- ii) Prof C. S. Hutchison, and
- iii) D. Santokh Singh

The Council had decided to do a study on possibility of conferring Honorary Membership to more eligible members in the future and is presently deciding on the qualifying criteria for Honorary Membership.

7.2 Student Loan Fund

To help the financially poor final year University students with their theses preparation, a Student Loan Fund was created after the 1973 AGM with an initial allocation of RM10,000.00. Unfortunately, like other loan funds in the country, the GSM Loan Fund also suffered from non-performance loan (NPL) repayment. The Council will attempt to collect repayments from 10 ex-students.

7.3 Best Student Award

The Council is planning to extend the Award to the Department of Geology, Universiti Sabah Malaysia and Department of Geophysics, Universiti Sains Malaysia.

7.4 Young Geoscientist Award

No nomination was received.

7.5 Geoscientist Award

No nomination was received.

8.0 GEOSEA

The GEOSEA will be held in Kuala Lumpur in 2008 with the conjunction of International Year of Planet Earth (IYPE) which was declared by the United Nations. The Council has also got consensus from other ASEAN countries with regards to setting up a permanent secretariat for GEOSEA based in Kuala Lumpur.

9.0 GSM-Student's Geological Club Collaboration

The Council accepted the collaboration and assistance in term of administration and financial, where the Geological Club must have at least 25 Student Members. The Chairman, the Secretary and the Treasurer of the Geological Club must be a Student Member of the Society. The club must prepare a working paper for their program in line with society's objective and submit to the Council for acceptance. For the year 2006, the Society has already given RM1,000.00 to the Geological Club of UKM and another RM1,000 to UMS for their respective programmes.

10.0 GSM Secretariat

The Department of Geology, University of Malaya agreed to let the Society use a room beside the Department's Library (Klompé) as an office of the Society. In return, The Council agreed to the proposal to contribute to the Department for the sum of RM 4,000.00 per year for the purpose

of upgrading the library resources, such as books, journals, magazines and maps. However, the agreement will be on year-to-year basis.

11.0 Acknowledgement

As a final note, the Society would like to extend its utmost appreciation to all the individuals and organizations that have helped in one way or another in the organizing of the Society's activities during this session. Special thanks goes to the Head and staff of the Geology Department, University of Malaya for the use of its premises for most of the Society's meetings and activities, and also the Secretariat, UKM, USM, UMS, JMG and Petronas Bhd and last but not least all members for their advice, guidance and support throughout the year.

ASKURY ABD KADIR
Secretary 2006/2007

ASSISTANT SECRETARY'S REPORT 2006/2007

1.0 Introduction

The sales of the Society publications were improved compared to previous year.

2.0 The Council

The 2006 sales, including the donation to universities and the stocks are presented in Table 1.

3.0 Society Structure

Table 2 is presented the list of organization and institution that were exchanging publication with GSM.

Table 1 : Sale and stock of publication for 2006

Publications	Sales 2006	Stock remaining 2006	Stock remaining 2007
Bulletin 2	31	225	194
Bulletin 3	41	220	179
Bulletin 4	0	94	94
Bulletin 6	0	420	420
Bulletin 7	0	264	264
Bulletin 13	37	60	23
Bulletin 17	38	50	12
Bulletin 18	22	31	9
Bulletin 19	151	553	402
Bulletin 20	30	383	413
Bulletin 21	16	181	165
Bulletin 22	11	238	227
Bulletin 23	20	261	241
Bulletin 24	24	426	402
Bulletin 25	105	215	110
Bulletin 26	33	243	210
Bulletin 27	27	118	91
Bulletin 28	0	127	127
Bulletin 29	0	129	129
Bulletin 30	8	218	210
Bulletin 31	21	148	127

Bulletin 32	80	190	110
Bulletin 33	17	284	267
Bulletin 34	13	98	85

Bulletin 35	0	0	0
Bulletin 36	0	139	139
Bulletin 37	200	384	184
Bulletin 38	0	250	250
Bulletin 39	0	216	216
Bulletin 40	103	213	110
Bulletin 42	165	228	63
Bulletin 43	41	201	160
Bulletin 44	0	214	214
Bulletin 45	58	202	144
Bulletin 46	221	249	28
Bulletin 47	149	231	82
Bulletin 48	166	222	56
Abstract (Bull 6)	0	4	4
Stratigraphic correlation	111	161	50
Rocks poster	47	230	183
Geological evolution of SEA	264	267	3
Malaysian Stratigraphic guide	466	734	268
Proceeding AGC 2000	95	149	54
Proceeding AGC 2001	103	302	199
Geology of Borneo (CD)	19	350	331
Geology of Borneo (Map)	11	952	941
Lexicon of stratigraphy	0	202	202
Bulletin 51	18	298	280
Bulletin 49			350*
Bulletin 52			274*
Total	3,938	11,574	8,456

- ***Distributed free to all 2006 member**
- ***Total printed is 800 copies**

Table 2 : Organization and institution that exchanging publications with GSM

Item	Organization	Country
1.	New South Wales Dept of Mineral Resources	Australia
2.	Geologica Belgica a.s.b.l	Belgium
3.	Ministry of Development	Brunei
4.	University of Geosciences	China
5.	The Episode	China
6.	Nanking Institute of Geology	China
7.	National Geological Library	China
8.	Peking College of Geology	China
9.	SOPAC Secretariat	Fiji
10.	Suomalaineu Tiedeakatemia	Finland
11.	Bureau de Rachache Geologique et Minieres	France
12.	Elf Aquitaine Production	France
13.	Zentralistitur fur Physik der Erde	Germany
14.	Freie Universitat Berlin	Germany
15.	National Museum of Natural History	Holland
16.	National Geophysical Research Institute	India
17.	Geological Research & Development Bandung	Indonesia
18.	Scientific Research Council	Jamaica
19.	Geological Society of Japan	Japan
20.	Dept Mineral & Planetary Science, Hiroshima	Japan
21.	Museum of Nature & Human Activities	Japan
22.	National Science Museum	Japan
23.	Natural History Museum and Institute	Japan
24.	Institute of Geosciences	Japan
25.	Geological Society of Korea	Korea
26.	Dewan Bahasa dan Pustaka	Malaysia
27.	Jabatan Mineral dan Geosains, Ipoh	Malaysia
28.	Jabatan Mineral dan Geosains, Kuching	Malaysia
29.	Jabatan Mineral dan Geosains, Kota Kinabalu	Malaysia
30.	Kementerian Dalam Negeri	Malaysia
31.	Department of Geography, UM	Malaysia
32.	Perpustakaan Negara Malaysia	Malaysia
33.	Library Petronas Berhad	Malaysia
34.	Pusat Sumber Maklumat Negeri Sarawak	Malaysia
35.	Perpustakaan Tun Sri Lanang, UKM	Malaysia
36.	Program Geologi, UKM	Malaysia
37.	Library, UM	Malaysia
38.	Library, USM	Malaysia
39.	MRSM, Jasin	Malaysia
40.	Malaysian Institute of Nuclear Technology	Malaysia
41.	Library of Congress, USA Embassy	Malaysia

42.	Institute of Ecological & Nuclear Science	New Zealand
43.	Mineralogical Society of Poland	Poland
44.	Russian Geological Library	Russia
45.	Institute of Geology of Foreign Country	Russia
46.	National Library	Singapore
47.	Petromin Pub. Co	Singapore
48.	Central Geological Survey	Taiwan
49.	Geological Society of Thailand	Thailand
50.	Department of Mineral Resources	Thailand
51.	Geological Library	Turkey
52.	Commonwealth Science Council	UK
53.	Institution of Mining & Metallurgy	UK
54.	Miida Ltd	UK
55.	American Museum of Natural History, New York	USA
56.	CIGESE Library	USA
57.	Oklahoma University	USA
58.	US Geological Survey	USA
59.	University of Kansas	USA
60.	AAPG Foundation Library	USA
61.	Faculty of Agriculture & Natural Resources, Africa University	Zimbabwe

MOHD ROZI UMOR
Assistant Secretary 2006/2007

EDITOR'S REPORT 2006/2007

The first publication of Warta Geologi Jilid/Volume No 32-3 May – June issue came up on time within the first two weeks of July. Subsequent Warta Geologi also came up on time. For the Warta Geologi Jilid/Volume 33-1 January – February 2007 issue it was delay as we only obtained the KDN approval number on 15 April 2007.

A new front page was introduced whereby photos of geological interest of Malaysia were featured. The photos are obtained from the photographic competition organized by GSM. Photo credit mention was made together with the caption of the picture.

We also introduced the ‘Snapshots of GSM’s yesteryear...’ at the back page inside cover. It was thanks to Prof Dr Wan Hasiah, Head of Geology Department at the University of Malaya who sent me two old photos of GSM and Geology Department and requested that I put the photos where I deemed fit. And I thought that this would be a very good idea to publish some ‘historical’ moment in time of GSM and the Department of Geologi of University Malaya. A number of members helped out on this by sending me some old pictures.

For the “Meetings of the Society’ session under the ‘Technical Talk’ we also featured photos of the speakers on the back page so as to give due recognition to the efforts and contributions of the speakers to our GSM. A brief biography of the speaker as to his/her past achievement in the academic and commercial world was described. We do hope to attract more speakers to our Technical Talks in future.

The whole printing cost for Warta Geologi Jilid/Volume 32-4 July – August 2006 was sponsored by Shell Malaysia Bhd where the whole issue appeared in color. We wish to express our heartfelt appreciation to Shell Malaysia Bhd for the sponsorship. Since then all our issues of Warta Geologi appeared in color as the incremental cost of printing is not high.

We do have a good year for the publication as there are numerous positive and encouraging comments on the Warta Geologi from members of GSM as well as other geological societies. Our aim is to produce the Warta Geologi on time and barring any unforeseen circumstances we intend to produce the Warta Geologi within the first two weeks of it being due.

Status of the Bulletin:

Volume 52 was printed last year, in June 2006. Volume 53 will consist of papers left over from last year’s conference. At this time, we only have 5 papers ready to format, the rest are still in the process of being reviewed and corrected. Volume 50 (an index volume, compiled by Robert Tate) will be ready for the printers this week. Dr Nur Iskandar was involved with the Bulletin that ends with Volume 53. Volume 54 is being compiled by Dr. Ng Tham Fatt, and will hopefully be out in June 2007.

It has been decided by the council to decouple the Bulletin from the National Geoscience Conference. No longer will we have any indication, in print, that Bulletin has any relationship to the NGC. The reason for this is that, although the Bulletin is a peer-reviewed journal, any indication that it might be a “conference proceedings” publication decreases its value in the eyes of those who run universities. Papers published in the proceedings volumes of conferences do not count for the purposes

of publication quotas and performance indicators. We will still solicit, and require, that full papers be submitted for presentation at the NGC, but not all papers presented will be published, and not all papers that end up published in the Bulletin will be those presented at the Conference.

The editor wishes to thank all the members of the Council and Ms Anna Lee for their strong support and those members who contribute in many ways.

LAU YINLEONG / NUR ISKANDAR TAIB

Editor 2006/2007

HONORARY TREASURER'S REPORT 2006/2007

The society's posted a financial deficit of RM 29,635.00 for Financial Year 2006, compared to a profit of RM 162,424.00 for Financial Year 2005. The net current asset has slightly decreased from RM 514,356.00 from 2005 to RM 483,403.00 for 2006.

The operating revenue posted lower compared to 2005 with a total income of RM 261,304.38 to RM 68,865.00 for year 2006. The increase in revenue was mainly from Entrance Fees, Bank Interest, Subscription, Working groups and GEO Asia 2006. The Petroleum Geology Conference & Exhibition 2006 which was held at Kuala Lumpur Convention Centre posted a gain of RM 28,455.00 as the end of December 2006 (including balance payment after Dec 2005 for PGCE 2005). The Final Income & Expenditure account for PGCE 2006 (see appendix 1) is a total income of RM 1,106,056.20 versus expenditure of RM 835,145.04, with a recorded net surplus of RM 270,910.16. Most of the incoming payment would only be expected in the first quarter or half of the financial year 2007 due to the conference date which was close to the closing of financial year account 2006.

The total operating expenditure for Financial Year 2006 was RM 98,500.00 which is slightly lower compared to RM 98,880.00 for Financial Year 2005. But there is an increase in expenditure for printing of Warta Geology from RM 8,670.00 for year 2005 to RM 16,970.00 for year 2006, Bulletin increase from RM 15,750.00 to RM 22,160.00 for year 2006 and postage by RM 3,136.00 for year 2006.

The Hon. Treasurer would like to express his great appreciation to all the donors and sponsors for their financial contribution and support. Congratulations to the Ad-Hoc committee of PGCE 2006 for a very successful and record breaking event in terms of organizing the event and finance raised. The organising committees of the National Geoscience Conference, Geophysics Seminar 2006 and Engineering Geology Conference are thanked for their efforts in implementing wise and profitable budgets for their activities.

AHMAD NIZAM HASAN

HON. TREASURE 2006 / 2007

NOTES

1. The RM 2,580.00 is still held in trust for the Evaluation Formation Working Group to finance their activities.
2. The final account for PGCE 2006 yet not being closed due to the incoming payment from sponsorship and exhibitor. This account balance would be accumulated into Financial Year 2006.
3. Printing cost of Warta Geologi for 4 issues totalling RM 16,970.00.
4. Printing cost of Bulletin for Vol. 49 and Vol. 52 giving a total of RM 22,160.00.

Appendix I

PGCE 2006
INCOME AND EXPENDITURE STATEMENT

INCOME	RM
Venue - Sponsorship	\$ 151,000.00
Preconference Fieldtrip	\$ 162,205.20
Registration Fees	\$ 115,220.00
Gift	\$ 60,000.00
Administration - sponsor	\$ 7,850.00
Exhibition - Booth rental	\$ 482,380.00
Golf	\$ 59,400.00
Cash Donation	\$ 68,000.00
Total	<u>\$ 1,106,055.20</u>
 EXPENDITURE	
Venue rental - KL Convention Centre	\$ 288,486.17
Booth contractor - Innogen	\$ 70,000.00
Petronas Booth - Innogen	\$ 36,240.00
Golf	\$ 59,257.00
Gift	\$ 135,647.00
Publication - Printing	\$ 28,770.00
Preconference/Field Trip	\$ 133,469.00
Traders Hotel - Committee	\$ 32,217.20
Secretariat/Administration	\$ 23,061.07
Protocol - Opening Ceremony	\$ 5,200.00
Honourarium	\$ 12,625.00
Student sponsor	\$ 10,172.60
Total	<u>\$ 835,145.04</u>
 Nett Surplus	 <u>\$ 270,910.16</u>

**PERSATUAN GEOLOGI MALAYSIA
(GEOLOGICAL SOCIETY OF MALAYSIA)
(Registered in Malaysia)**

**REPORT AND ACCOUNTS
31 DECEMBER 2006**

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S. F. LEE & CO.

CHARTERED ACCOUNTANTS

**PERSATUAN GEOLOGI MALAYSIA
(GEOLOGICAL SOCIETY OF MALAYSIA)**
(Registered in Malaysia)

MEMBERS INFORMATION

President	: Lee Chai Peng
Vice President	: Yunus Abdul Razak
Treasurer	: Ahmad Nizam Hasan
Secretary	: Askury Abdul Kadir
Assistant Secretary	: Mohd Rozi Umor
Editor	: Lau Yin Leong
Councilors	: Ahmad Tajuddin Ibrahim : Nur Iskandar Taib : Jasmi Hafiz Ab. Aziz
Immediate Past President	: Mohd Shafeea Leman

**PERSATUAN GEOLOGI MALAYSIA
(GEOLOGICAL SOCIETY OF MALAYSIA)**
(Registered in Malaysia)

STATEMENT BY THE COUNCIL

We, **LEE CHAI PENG** and **AHMAD NIZAM HASAN**, being the President and Treasurer respectively, of the **PERSATUAN GEOLOGI MALAYSIA (GEOLOGICAL SOCIETY OF MALAYSIA)**, do hereby state that in the opinion of the Council, the financial statements set out pages 4 to 9 are properly drawn up so as to give a true and fair view of the state of affair of the **PERSATUAN GEOLOGI MALAYSIA (GEOLOGICAL SOCIETY OF MALAYSIA)** as at 31 December, 2006 and the result and cash flows for the year then ended.

On behalf of the Council,

(Signed)

LEE CHAI PENG
President

(Signed)

AHMAD NIZAM HASAN
Treasurer

Kuala Lumpur
Dated: 20 April 2007

PERSATUAN GEOLOGI MALAYSIA
(GEOLOGICAL SOCIETY OF MALAYSIA)
(Registered in Malaysia)

DECLARATION BY THE OFFICER PRIMARILY RESPONSIBLE FOR THE FINANCIAL
MANAGEMENT OF THE SOCIETY

I, **AHMAD NIZAM HASAN**, being the officer primarily responsible for the financial management of **PERSATUAN GEOLOGI MALAYSIA (GEOLOGICAL SOCIETY OF MALAYSIA)** do solemnly and sincerely declare that the accompanying financial statement set out on pages 4 are, to the best of my knowledge and belief, correct and I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Statutory Declarations Act, 1960.

Subscribed and solemnly)
declared)
by AHMAD NIZAM HASAN,)
at Kuala Lumpur in the)
state of Federal Territory on 20)
April 2007)
)
)

(Signed)

AHMAD NIZAM HASAN
Officer

Before me,

(Commissioner's Chop)

Commissioner for Oaths

**AUDITORS' REPORT TO THE MEMBERS OF
PERSATUAN GEOLOGI MALAYSIA
(GEOLOGICAL SOCIETY OF MALAYSIA)
(Registered in Malaysia)**

We have audited the financial statements set out on 4 to 9. These financial statements are the responsibility of the Council Members of the Society. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with approved auditing standards in Malaysia. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the Council Members, as well as evaluating the overall financial statements presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements give a true and fair view of the state of affairs of the Society as at 31 December, 2006, and the deficit of expenditure over income of the Society for the year then ended on that date in accordance with the basis of accounting described in Note 2 to the financial statements.

(Signed)

S.F.LEE & CO.
AF 0670
CHARTERED ACCOUNTANTS

(Signed)

LEE SIEW FATT
1179/9/08 (J)

Kuala Lumpur.
Dated : 20 April 2007

**PERSATUAN GEOLOGI MALAYSIA
(GEOLOGICAL SOCIETY OF MALAYSIA)**
(Registered in Malaysia)

BALANCE SHEET AS AT 31 DECEMBER 2006

	<u>Note</u>	<u>2006</u> RM	<u>2005</u> RM
FUND ACCOUNTS			
GENERAL FUND	3	515,105	544,740
STUDENT LOAN FUND		465	415
EVALUATION FORMATION WORKING GROUP FUND		2,580	8,389
YOUNG GEOSIENTIST AWARD FUND		3,143	3,143
		<u>521,293</u>	<u>556,687</u>
Represented by:-			
PLANT AND EQUIPMENT	4	37,890	42,331
CURRENT ASSETS			
Inventories	5	11,292	14,441
Deposits		600	600
Fixed deposits with licensed bank	6	242,908	242,908
Cash and bank balances		<u>229,403</u>	<u>257,207</u>
		<u>484,203</u>	<u>515,156</u>
CURRENT LIABILITY			
Accruals		<u>800</u>	<u>800</u>
NET CURRENT ASSETS		<u>483,403</u>	<u>514,356</u>
		<u>521,293</u>	<u>556,687</u>

The annexed notes form an integral part of the financial statements

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

(Registered in Malaysia)

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 DECEMBER 2006

	<u>2006</u>	<u>2005</u>
	RM	RM
<u>INCOME</u>		
Entrance fees	860	280
Fixed deposits interest income	4,316	1,850
Subscription	15,983	11,012
Sales of publications	5,783	6,841
Petroleum Geology Conference	28,455	238,013
Xerox	112	-
Working groups	599	-
Geoasia	9,587	-
Geological Evolution (CSH)	3,170	3,308
	<u>68,865</u>	<u>261,304</u>
<u>LESS: EXPENDITURE</u>		
AAPG-UM student chapter	746	-
Annual dinner	662	2,591
Annual geological conference	1,966	9,255
Bank charges	-	109
Department of geology	1,138	3,700
Depreciation of plant and equipment	4,441	4,991
Honorarium	19,768	20,082
Income tax	3,654	-
Photo competition	2,300	2,300
Postages	8,319	5,183
Printing and stationery		
- Bulletin	22,160	15,750
- Miscellaneous	6,701	11,613
- Warta geologi	16,970	8,670
Professional fees	-	1,600
Refreshment	1,580	1,006
Speakers' account	3,358	1,915
Subscription to COSTAM	400	100
Sundry expenses	2,701	5,484
Telefax	412	1,213
Telephone	841	1,213
Working groups	-	870
Xerox	383	1,235
	<u>98,500</u>	<u>98,880</u>
Net (deficit) / surplus for the year	<u>(29,635)</u>	<u>162,424</u>

PERSATUAN GEOLOGI MALAYSIA
(GEOLOGICAL SOCIETY OF MALAYSIA)
(Registered in Malaysia)

CASH FLOW STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2006

	<u>2006</u> RM	<u>2005</u> RM
CASH FLOWS FROM OPERATING ACTIVITIES		
<u>Cash receipts</u>		
Subscription	15,983	11,012
Petroleum Geological conference	28,455	238,013
Entrance fees	860	280
Proceeds from publications	5,783	6,841
Others	13,468	-
	<u>64,549</u>	<u>256,146</u>
Payment of operating expenses	(96,669)	(90,503)
	<u>(32,120)</u>	<u>165,643</u>
NET CASH (USED IN)/GENERATED FROM OPERATING ACTIVITIES		
CASH FLOWS FROM INVESTING ACTIVITIES		
Purchase of plant and equipment	-	(2,941)
Interest received from fixed deposits	4,316	1,850
	<u>4,316</u>	<u>(1,091)</u>
NET CASH GENERATED FROM/(USED IN) INVESTING ACTIVITIES	<u>4,316</u>	<u>(1,091)</u>
NET (DECREASE)/INCREASE IN CASH AND CASH EQUIVALENTS	<u>(27,804)</u>	<u>164,552</u>
CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR	<u>500,115</u>	<u>335,563</u>
CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR	<u><u>472,311</u></u>	<u><u>500,115</u></u>
<u>Analysis of cash and cash equivalents</u>		
	<u>2006</u> RM	<u>2005</u> RM
Cash in hand	597	145
Bank balance	228,806	257,062
Fixed deposits with licensed bank	242,908	242,908
	<u><u>472,311</u></u>	<u><u>500,115</u></u>

**PERSATUAN GEOLOGI MALAYSIA
(GEOLOGICAL SOCIETY OF MALAYSIA)**
(Registered in Malaysia)

NOTES TO FINANCIAL STATEMENTS – 31 DECEMBER 2006

1. PRINCIPAL OBJECTIVE

The principal objective of the Society is to promote the advancement of the geological sciences in Malaysia.

2. ACCOUNTING POLICIES

a) Basic of Accounting

The accounts have been prepared under the historical cost convention and comply with applicable Approved Accounting Standards issued by the Malaysian Association Standards Board.

b) Income Recognition

Membership subscription is payable annually at the beginning of the financial year. All subscriptions received during the financial year is recognised as income. Income from sale of publications is recognised upon delivery of goods. Income from organising conference is recognised on an accrual basis. Interest income and rental income are recognised on an accrual basis.

c) Property, Plant and Equipment

Property, plant and equipment are stated at cost less accumulated depreciation.

Property, plant and equipment are depreciated on the reducing balance method calculated to write off the cost of the assets over their estimated useful life. The principal annual rates used for this purpose are as follows: -

Office equipment	10%
Computer	20%

d) Impairment of Assets

The carrying values of the assets are reviewed for impairment when there is indication that the assets might be impaired. Impairment is measured by comparing the carrying values of the assets with their recoverable amounts.

An impairment loss is charged to the income and expenditure account immediately, unless the asset is carried at revalued amount. Any impairment loss of a revalued assets is treated

as a revaluation decrease to the extent of previously recognized revaluation surplus for the same asset.

Subsequent increase in the recoverable amount of an asset is treated as reversal of the previous impairment loss and is recognized to the extent of the carrying amount of the asset that would have been determined (net of amortization and depreciation) had no impairment loss been recognised. The reversal is recognised in the income statement immediately, unless the asset is carried at revalued amount.

e) Inventories

Inventories consists of compass and maps value at the lower of cost and net realizable value.

3. GENERAL FUND

	<u>2006</u> RM	<u>2005</u> RM
Balance as at 1 January	544,740	382,316
(Deficit)/surplus for the year	<u>(29,635)</u>	<u>162,424</u>
Balance as at 31 December	<u><u>515,105</u></u>	<u><u>544,740</u></u>

4. PLANT AND EQUIPMENT

2006

	-----COST-----				
	<u>Balance at</u> <u>1.01.2006</u> RM	<u>Addition</u> RM	<u>Disposal</u> RM	<u>Balance at</u> <u>31.12.2006</u> RM	
Office equipment	129,067	-	-	129,067	
Computer	2,596	-	-	2,596	
	<u>131,663</u>	<u>-</u>	<u>-</u>	<u>131,663</u>	
	-----ACCUMULATED DEPRECIATION-----				
	<u>Balance at</u> <u>1.01.2006</u> RM	<u>Charge for</u> <u>the year</u> RM	<u>Disposal</u> RM	<u>Balance at</u> <u>31.12.2006</u> RM	NET BOOK VALUE <u>At</u> <u>31.12.2006</u> RM
Office equipment	88,813	4,026	-	92,839	36,228
Computer	519	415	-	934	1,662
	<u>89,332</u>	<u>4,441</u>	<u>-</u>	<u>93,773</u>	<u>37,890</u>

PERSATUAN GEOLOGI MALAYSIA (Geological Society of Malaysia) 41st ANNUAL GENERAL MEETING



From Left : Askury A Kadir, Dr Lee CP, Yunus Razak & Ahmad Nizam Hasan



Incoming President Yunus Razak and Past Immediate President Dr Lee CP (left)



Members of GSM attending the AGM



Incoming President Yunus Razak addressing the members



Members of GSM attending the AGM



Prof Dr Charles Hutchison and Dr Ng Tham Fatt at front row

PERSATUAN GEOLOGI MALAYSIA (Geological Society of Malaysia) GSM ANNUAL DINNER ON 27 APRIL 2007

The GSM annual dinner was held at the Eastin Hotel on the 27 April 2007 immediately after the Annual General Meeting of the Geological Society of Malaysia. This annual affair was well attended by many members together with their family. A good time to meet old friends and associates and catch up with the latest geological and business news in Malaysia as well as to say hello to some new members of GSM. We do hope to see more new faces as well as more old timers of GSM attending the dinner for the next AGM.

Editor



From left : Sia Hok Kiang, Low Keng Lok & Anna Lee at the GSM dinner

PERSATUAN GEOLOGI MALAYSIA
(Geological Society of Malaysia)
GSM ANNUAL DINNER ON 27 APRIL 2007



From Left : Mohd Rosi Umor, Tan Kian Wei & Lim Toon Hoong



From Left : Prof Charles Hutchison, Dr Gan Lay Chin and Prof Dr Lee Chai Peng



Far left corner : Dr Nur Iskandar, Dr Joy Periera and Dr Ng Tham Fatt



From Left : Mohazam Mohd Iqbal & Yunus Razak



Tan Boon Kong (front) and Lau YinLeong



Ling Nan Ley and family members at the GSM dinner

Ceramah Teknik (Technical Talk)

Significance and Recognition of Mass-Transport Deposits in Deepwater Environments

2 April 2007

**Geology Department
University of Malaya**

(in collaboration with the Dept of Geology, University of Malaya)

Dr Craig Shipp

About 50 members of the Society, members of the AAPG Student Chapter in University of Malaya and some others from the oil industry attended the talk on "Significance and recognition of Mass-Transport Deposits in Deepwater Environments (abstract below)". The talk was presented at the Geology Lecture Hall, University of Malay at 5.30 pm on Monday, 2 April 2007.

Dr. Shipp also gave a lecture on "Where Offshore Drilling Meets Shallow Geology: Impact of Near-surface Depositional Systems on Deepwater Operations" to KLEX members at the Kuala Lumpur Convention Centre the next day.

Report by C.P.Lee

Abstract

Analysis of the seafloor and subsurface interval on large 3D seismic surveys from global deepwater basins globally reveals a myriad of geomorphic details over a wide range of geologic settings. A consistent seismic signature present in nearly every survey is the preponderance of features related to mass failure. These features, collectively termed mass-transport deposits (MTDs), are defined as any feature (and occasionally entire stratigraphic intervals) resedimented since time of original deposition. In large part, due to confusing terminology, MTDs include what commonly are called submarine slides, slumps, mass flows, debris flows, mass movements, debrites, mass transport complexes, as well as a host of other informal terms. Realization of the importance of MTDs as a major component in deepwater systems developed slowly for two reasons. First, ill-defined recognition criteria can hamper definitive identification. This always will be a lingering issue due to the highly variable dimensions of MTDs. Second, until recently there has been a perceived lack of economic significance, and in part this has contributed to the paucity of studies concerning these features. This is particularly true for buried MTDs, rather than the more easily imaged features on the seafloor. Clearly, MTDs are an important element of deepwater environments. It is now evident that MTDs can form a large percentage of the stratigraphic volume on the continental slope in many deepwater basins. Besides their association with hydrocarbon accumulations as seals and occasionally reservoirs, MTDs can be geohazards that affect deepwater drilling operations and field developments.

As surficial MTDs have received increased attention in the past few years, the size and extent of these features now are known (e.g., the Storegga slide in the Norwegian Sea). What is less understood and more difficult to image is the geometry and extent of MTDs in the subsurface interval. It has only been in the last decade that 3D seismic data are of sufficient resolution to resolve the internal structure of these features. Even then, the improved resolution is confined to near-surface interval, where higher seismic frequencies are preserved. As a first overall criterion, identification of MTDs depends largely on recognition of the characteristic low-amplitude, chaotic seismic character. A second criterion is the highly variable dimensions of features, in both the strike and dip extent, which can vary more than three orders of magnitude (i.e., 0.1 to 100 km). The thickness of MTDs can be within a few meters of seismic resolution, to greater than 500 m. A third criterion relates to distinct, identifiable internal character. Often, the updip limit is marked by a prominent headscarp with rotated, intact blocks, located immediately downdip. On occasion, the terminus of may consist of distinct, compressional imbricate toe thrusts. A fourth criterion relies on predictable plan-view geometry of these features. Frequently, the updip headscarp is concave down-slope, while the downdip terminus, when observed, is convex down-slope. However, this criterion may be least reliable to observe due to data display capabilities and influence of antecedent topography.

PERSATUAN GEOLOGI MALAYSIA
(Geological Society of Malaysia)
GSM ANNUAL DINNER ON 27 APRIL 2007



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From Left : Prof Charles Hutchison, Dr Gan Lay Chin and Prof Dr Lee Chai Peng



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Tan Boon Kong (front) and Lau YinLeong



Ling Nan Ley and family members at the GSM dinner

PERTEMUAN PERSATUAN (Meeting of the Society)

Ceramah Teknik (Technical Talk)

MALAM CERUN/JKR

21 March 2007

Geology Department, University of Malaya

(in collaboration with the Dept of Geology, University of Malaya, IEM & IGM)

The Slope Engineering Branch, PWD: An Introduction.

Ling Nan Lay (JKR)

SMART (Slope Management and Risk Tracking): System Architecture.

Hj. Abu Harith B. Samsuddin (JKR)

SMART : System Application.

Melati Mudzaffar Ali (JKR)

Malam Cerun/JKR featured 3 speakers, namely Sdr. Ling N.L, Sdr. Abu Harith Samsuddin and Sdri. Melati Mudzaffar, all from the Slope Branch of JKR, KL. The titles of the presentations and programme are as attached.

Sdr. Ling gave an introduction and broad overview of the Slope Branch of JKR, its various component units and functions. For example, the Forensic unit investigates slope failures after the event. It is worthy of note that there are four geologists (on secondment from JMG) working among some 20 civil engineers in the Slope Branch of JKR.

Sdr. Abu Harith gave the historical development of the SMART (Slope Management and Risk Tracking) system, with some details of the various parameters and algorithms involved in the SMART system. He was among the early pioneers who were involved in the development of the SMART system, albeit adopted and adapted from the Hongkong GEO system.

Sdri. Melati then presented some example applications of the SMART system, mostly for highway slopes since the system was developed for linear structures such as roads and highways. She showed some examples of input parameters, such as various geological factors, and how hazard maps and risk maps can be produced from the system, with case studies from Sabah and Peninsular Malaysia.

As usual, many questions and answers followed the presentations, mostly centred around geological input. The issues of accessibility of JKR publications, reports, and sharing of data were among the "hot" topics discussed during question time. All in all, the audience has benefited from these 3 presentations.

Tan Boon Kong,
Chairman, Working Group on Engineering Geology & Hydrogeology.

MALAM CERUN/JKR



Tan Boon Kong, Chairman of the Working Group on Engineering Geology & Hydrogeology giving the introduction.



Ling Nan Ley delivering his talk



Hj. Abu Harith B. Samsuddin delivering his talk



Melati Mudzaffar Ali delivering her talk



Participants having the tea break



Part of the audience at the Malam Cerun/JKR Talk

Ceramah Teknik (Technical Talk)

Significance and Recognition of Mass-Transport Deposits in Deepwater Environments

2 April 2007

**Geology Department
University of Malaya**

(in collaboration with the Dept of Geology, University of Malaya)

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Significance and Recognition of Mass-Transport Deposits in Deepwater Environments



Dr Craig Shipp, Distinguished lecturer from AAPG giving a talk at GSM



Tea break before the talk commenced



Dr Craig Shipp stressing a point in his talk



Part of the audience at the talk by Dr Shipp



Part of the participants at the talk



GSM President Dr Lee CP presenting a token of appreciation to Dr Craig Shipp

BERITA-BERITA PERSATUAN (News of the Society)

COUNCIL MEMBERS WANTED

Our Council is looking for suitable candidates to head the following Groups as Chairman:

1. Working Group on Structural Geology & Tectonic
2. Working Group on Petroleum Geology
3. Working Group on Sedimentology, Stratigraphy & Paleontology

Interested candidate please write to GSM or call the Editor, Mr Lau YinLeong at 012-2093098.

Keahlian (Membership)

Student Members

1. Siti Hanisah binti Sidik (UKM)

Current Address Wanted

1. Heinrich R. Siregar
2. Rofiqul Islam @Zaw Win

Pertambahan Baharu Perpustakaan (New Library Additions)

1. Episodes, vol. 31, no. 1, March 2007
2. USGS Professional Paper no. 1661-B, 1696, 1700, 1697, 2005; no. 1386-J, 2002 (revised)
3. Museum of Nature and Human Activities, Hyogo: Humans and Nature no. 17, 2007
4. Museum of Nature and Human Activities, Hyogo: Bulletin no. 11, 2007
5. SOPAC: Proceedings of the Thirty-Fifth Session, 2006

Proceedings for Sale

1. Forum on groundwater, 1994 (3 copies)
2. Forum on environmental geology & geotechnics, 1995 (4 copies)
3. Dynamic stratigraphy & tectonics of Peninsular Malaysia, 3rd seminar – The Mesozoic of Peninsular Malaysia (2 copies)
4. GSM-IEM forum: the roles of engineering geology and geotechnical engineering in construction works: proceedings (10 copies)

BERITA-BERITA LAIN (Other News)

HARI KERJAYA GEOLOGI 2007

Program hari kerjaya ini adalah julung-julung kalinya diadakan oleh Program Geologi UKM. Hari kerjaya ini diadakan pada 10 Februari dari jam 8.30 pagi hingga 5.30 petang. Pengerusi Pusat Pengajian Sains Sekitaran dan Sumber Alam, Fakulti Sains dan Teknologi UKM iaitu Professor Dr. Abd. Rahim Samsudin telah merasmikan pembukaan Program Hari Kerjaya Geologi 2007 dengan penuh gilang-gemilang. Para peserta program ini terdiri daripada kesemua siswazah program geologi UKM, siswazah Fakulti Sains dan Teknologi dan siswazah Fakulti Kejuruteraan UKM. Peserta jemputan daripada luar UKM pula melibatkan siswazah program geologi Universiti Malaya (UM), pelajar Kolej Matrikulasi Negeri Sembilan, pelajar Sekolah Menengah Agama Bestari dan Sekolah Sri Putri.

Sebanyak empat buah syarikat swasta iaitu PETRONAS, Talisman Energy, Hess dan Environ dan sebuah badan kerajaan iaitu Jabatan Mineral dan Geosains (JMG) telah dijemput untuk memberi ceramah kerjaya.

Selain daripada aktiviti ceramah kerjaya, pameran mengenai bidang geosains juga diadakan bagi memperkenalkan bidang geosains kepada masyarakat terutamanya kepada kumpulan sasaran yang terdiri daripada pelajar sekolah menengah dan pelajar kolej matrikulasi. Muzium dan makmal-makmal di bangunan program geologi juga dibuka untuk membolehkan peserta-peserta program hari kerjaya ini membuat lawatan ke tempat-tempat tersebut. Aktiviti-aktiviti yang bersifat interaktif juga diadakan untuk menjadikan program ini lebih menarik.

Perlaksanaan program hari kerjaya ini dapat memberi kemudahan kepada para siswazah untuk membuat pilihan pekerjaan yang bersesuaian dengan diri masing-masing. Program hari terbuka pula dapat bertindak sebagai serampang dua mata dalam usaha kami untuk memperkenalkan bidang geosains kepada masyarakat dan kepentingannya dalam kehidupan serta sumbangannya kepada ekonomi negara.

Disediakan Oleh,

MOHD IRWAN BIN ABU SAMAH

Ketua Pengarah Program Hari Kerjaya Geologi UKM 2007

HARI KERJAYA GEOLOGI 2007



Penyampaian cenderamata daripada pemangku ketua program geologi UKM, Prof. Madya Dr. Kamal Roslan Mohamed kepada Prof. Dr. Abd. Rahim Samsudin



Pelajar-pelajar sekolah diberi penerangan ringkas tentang kaedah membuat keratan nipis batuan.



Antara peserta Program Hari Kerjaya Geologi UKM 2007

BERITA-BERITA LAIN (Other News)

Up Coming Events

August 6-10, 2007: Basin analysis workshop: an integrated approach, Singapore.

Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

August 13-17, 2007: Basic petroleum engineering practices, Kuala Lumpur. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

August 13-17, 2007: Shaly sand petrophysics, Singapore. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

August 13-24, 2007: Applied reservoir engineering, Kuala Lumpur. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

August 20-24, 2007: Well log interpretation, Kuala Lumpur. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

September 3-7, 2007: Basic petroleum geology, Kuala Lumpur. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

September 3-7, 2007: Wireline formation testing and interpretation, Kuala Lumpur. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

September 17-21, 2007: 35th IAH Congress – Groundwater and Ecosystems, Lisbon, Portugal. Contact: website: www.geo.ua.pt/aih-gp/iah2007

October 16-19, 2007: Sixth Asian Regional Conference on Geohazards in Engineering Geology, Seoul, Korea. Contact: email: iaeg@plaza.snu.ac.kr; website: www.iaeg2007.org/

October 18-19, 2007: The 2nd International Workshop on Opto-Electronic Sensor-based Monitoring in Geo-Engineering, Nanjing, China. Contact: Dr. Zhang Dan, Center for Engineering Monitoring with Opto-Electronic Sensing (CEMOES), Dept. of Earth Sciences, Nanjing University, Nanjing 210093, China. Tel: +86-25-83596220/83597888/83596194; Fax: +86-25-83596220; email: osmg2007@nju.edu.cn; website: <http://www.acei.cn>

BERITA-BERITA LAIN (Other News)

October 29-November 2, 2007: Coring and core analysis, Kuala Lumpur. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

November 5-9, 2007: Introduction to offshore oil and gas systems, Kuala Lumpur. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

November 6-7, 2007: Cities and Conservation – International Symposium, Putrajaya, Kuala Lumpur, Malaysia. Contact: Joy Pereira, email: joy@pkisc.cc.ukm.my

November 8-12, 2007: International Symposium on Gondwana to Asia and 2007 IAGR Annual Convention, Kyushu University, Kyushu, Japan. Contact: Dr. Nobuhiko Nakano, Symposium Secretariat, International Symposium on Gondwana to Asia, Division of Evolution of Earth Environment, Kyushu University, Fukuoka 810-8560, Japan. Fax: +81-92-726-4843; email: good-asia@scs.kyushu-u-ac.jp

November 12-16, 2007: Seismic interpretation, Kuala Lumpur. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email: registrations@petroskills.com

November 28-30, 2007: 2nd International Conference on Geotechnical Engineering – “New Developments in Geotechnics”, Central South University, Changsha, Hunan, China – call for papers. Contact: Tel: 065 67332922; Fax: 065 62353530; email: cipremie@singnet.com.sg

December 2-7, 2007: Securing groundwater quality in urban and industrial environments, Fremantle, Western Australia. Contact: Viv Baker, Tel: 61 8 9333 6274; email: viv.baker@csiro.au or Greg Davis: Tel: 61 8 9333 6386; email: greg.davis@csiro.au. Website: www.csiro.au/GQ07; email: GQ07@csiro.au

December 5-7, 2007: 8th Pacific Conference on Earthquake Engineering, Singapore. Contact: The Secretariat, 8th Pacific Conference on Earthquake Engineering, c/o CMA International Consultants Pte. Ltd., 1, Liang Seah Street, #02-12 Liang Seah Place, Singapore 189022. Tel: +65-6336 2328; Fax: +65-6336 2583; email: 8PCEE@ntu.edu.sg; website: www.ntu.edu.sg/cee/8PCEE/

March 9-12, 2008: The Challenge of Sustainability in the Geoenvironment. Contact: Krishna Reddy (kreddy@uic.edu) or Beth Gross (bgross@geosyntec.com)

April 01-04, 2008: The 3rd International Conference on Geotechnical & Geophysical Site Characterization, Taipei International Convention Center, Taiwan. Contact: Ms. Zoe Chang, 10F-2, No. 51, Sungjjang Road, Taipei, 104 Taiwan. Tel: +886 2 2504 4338 ext 15; Fax: +886 2 2504 4362; email: zoe329@elitepco.com.tw

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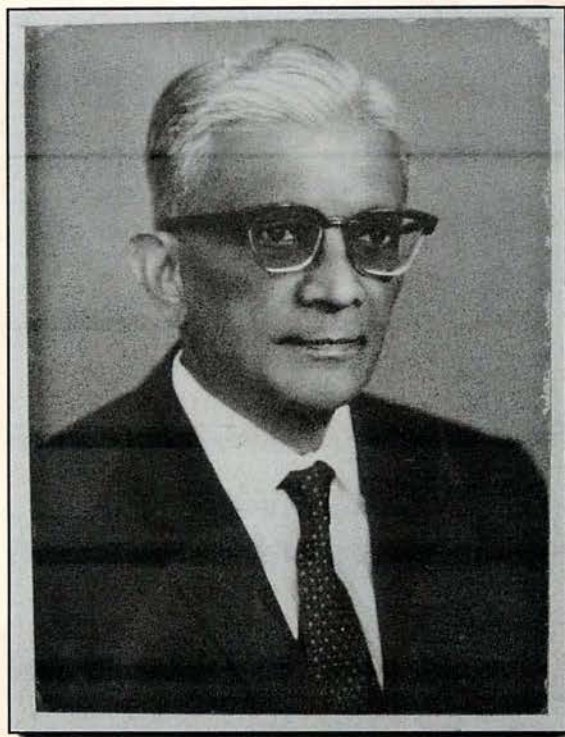
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- Bulletin 3** (Mar 1970). 146 p. Papers in Geomorphology and Stratigraphy (with Bibliography supplement). Edited by P.H. Stauffer. Price: RM5.00 .
- Bulletin 4** (Jun 1971). 100 p. Papers in Petrology, Structure and Economic Geology. Edited by P.H. Stauffer. Price: RM5.00 .
- Bulletin 5** (Feb 1973). 70 p. The Search for Tungsten Deposits by K.F.G. Hosking. Price: RM5.00 .
- Bulletin 6** (Jul 1973). 334 p. Proceedings, Regional Conference on the Geology of Southeast Asia. A Collection of papers, Kuala Lumpur, March, 1972. Edited by B.K. Tan. Price: RM5.00 .
- Bulletin 7** (Jun 1974). 138 p. A collection of papers on geology. Edited by B.K. Tan. Price RM5.00 .
- Bulletin 13** (Dec 1980). 111 p. A collection of papers on geology of Malaysia and Thailand. Edited by G.H. Teh. Price RM5.00 .
- Bulletin 17** (Dec 1984). 371 p. A collection of papers on geology. Edited by G.H. Teh. Price: RM10.00 .
- Bulletin 18** (Nov 1985) 209 p. Special issue on Petroleum Geology. Edited by G.H. Teh. & S. Paramanathan. Price: RM15.00 .
- Bulletins 19** (Apr 1986) & **20** (Aug 1986). GEOSEA V Proceedings Vols. 1 & 11. Fifth Regional Congress on Geology, Mineral and Energy Resources of SE Asia. Kuala Lumpur, 9-13 April 1984. Edited by G.H. Teh & S. Paramanathan. Price for both bulletins 19 & 20: Members: RM30.00; Non-members: RM60.00
- Bulletin 21** (Dec 1987). 271 p. Special issue on Petroleum Geology Vol. 11. Edited by G.H. Teh. Price: RM20.00 .
- Bulletin 22** (Dec 1988). 272 p. Special issue on Petroleum Geology Vol. 111. Edited by G.H. Teh. Price: RM20.00 .
- Bulletin 23** (Aug 1989). 215 p. A collection of papers on the geology of Malaysia, Thailand and Burma. Edited by G.H. Teh. Price: RM10.00 .
- Bulletin 24** (Oct 1989). 199 p. A collection of papers presented at GSM Annual Geological Conference 1987 & 1988. Edited by G.H. Teh. Price: RM10.00 .
- Bulletin 25** (Dec 1989). 161 p. Special issue on Petroleum Geology Vol. IV. Edited by G.H. Teh. Price: RM20.00 .
- Bulletin 26** (Apr 1990). 223 p. A collection of papers presented at GSM Annual Geological Conference 1989 and others. Edited by G.H. Teh. Price: RM10.00 .
- Bulletin 27** (Nov 1990). 292 p. Special issue on Petroleum Geology Vol. V. Edited by G.H. Teh. Price: RM20.00 .
- Bulletin 28** (Nov 1991). 292 p. Special issue on Petroleum Geology Vol. VI. Edited by G.H. Teh. Price: RM20.00 .
- Bulletin 29** (Jul 1991). 255 p. A collection of papers presented at GSM Annual Geological Conference 1990 and others. Edited by G.H. Teh. Price: RM10.00
- Bulletin 30** (Apr 1992). 90 p. Annotated bibliography of the geology of the South China Sea and adjacent parts of Borneo by N.S. Haile. Edited by G.H. Teh. Price: RM10.00 .
- Bulletin 31** (Jul 1992). 176 p. A collection of papers presented at GSM Annual Geological Conference 1991 and others. Edited by G.H. Teh. Price: RM10.00 .
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- Bulletin 37** (Jul 1995). 506 p. Proceedings AAPG-GSM International Conference 1994. Southeast Asian Basins: Oil and Gas for the 21st Century. Edited by G.H. Teh. Price: RM60.00 .
- Bulletin 38** (Dec 1995). 190 p. A collection of papers presented at GSM Annual Geological Conference 1994 and others. Edited by G.H. Teh. Price: RM30.00 .
- Bulletin 39** (Jul 1996). 258 p. Papers from Petroleum Geology Conference 1995. Annual Geological Conference and others. Edited by G.H. Teh. Price: RM50.00
- Bulletin 40** (Jul 1997). 247 p. A collection of papers presented at GSM Annual Geological Conference 1996 and others. Edited by G.H. Teh. Price: RM30.00 .
- Bulletin 42** (Dec 1998). 268 p. Papers from Petroleum Geology Conference 1997, Seminar on Tertiary Basins of Peninsular Malaysia and others. Edited by G.H. Teh. Price: RM50.00 .
- Bulletin 43** (Dec 1999). 698 p. Papers from GEOSEA '98 (Ninth Regional Congress on Geology, Mineral and Energy Resources of Southeast Asia). Edited by G.H. Teh. Price: RM70.00 .
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PROFESSOR C.S.PICHAMUTHU
FIRST PROFESSOR OF THIS DEPARTMENT
(1956-1960)

Profesor Pertama di Jabatan Geologi



KAKI BUKIT, PERLIS. JULY, 1960
PROFESSOR C.S. PICHAMUTHU WITH 2ND YEAR STUDENTS
LIU CHANG LAN ON LEFT WITH MR. LOH AH TONG

Above photos hang on the wall of the Department of Geology with original caption

WARTA GEOLOGI

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Council members at the 41st AGM of GSM



GSM Annual Dinner 2007 Event



Malam Cerun/JKR



Dr Craig Shipp



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