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# **WARTA GEOLOGI**

## **PERSATUAN GEOLOGI MALAYSIA**

*Newsletter  
of the*

# **Geological Society of Malaysia**



*Botryoidal Hematite*  
*Location : Tasik Cini, Pahang*  
*By Dr Ng Tham Fatt*

*Jilid /Volume 33, No 1. January - February 2007*



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

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The Society was founded in 1967 with the aim of promoting the advancement of earth sciences particularly in Malaysia and the Asian region. The Society has a membership of about 600 earth scientists and is worldwide in distribution.

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# CATATAN GEOLOGI ( Geological Notes)

## LOW-ANGLE THRUST AT TANJUNG RHU, LANGKAWI

*Professor Emeritus H.D. Tjia*

LESTARI, Universiti Kebangsaan Malaysia  
40360 Bangi, Selangor D.E.

### ABSTRACT

*A newly described low-angle reverse fault in Ordovician-Devonian bedded Setul limestone (Tanjung Rhu, Langkawi main island) puts the structural history of the island into improved perspective. This NNE-trending fault and those similarly striking reverse fault at Pulau Langgun and the major "Batu Putih" fault (in southeastern Langkawi and northern Dayang Bunting island) are interpreted to belong to an imbricate structure verging westward. Imbricate tectonics occurred after the so called Kisap Thrust was in place. A third episode of deformation activated the NNE-striking Batu Putih fault as a wrench fault that cut and laterally displaced the original Kisap Thrust into two parts (Kisap Thrust with Belanga Pecah on the main island, and the Dayang Bunting Thrust in the southern island). Right-lateral offset on the Batu Putih fault amounts to 15 kilometres. A probable fourth deformation episode is represented by a NW-trending fault cutting the SW foot of Gunung Raya granitoid and sinistrally offset the Batu Putih fault by a few hundred metres. Fault deformation 1 as represented by the Kisap Thrust occurred in post-Setul time. Fault episode 2 occurred in the Setul-Cuping interval. Reactivation of the Batu Putih fault as a right-lateral wrench took place in post-granitoid time (Triassic-Jurassic), while the fourth faulting episode as represented by the "Raya" sinistral wrench also took place in post-granitoid time.*

Thrust fault-planes and attendant recumbent folds in an ill-defined zone along the eastern side of the Langkawi islands (fig. 1) have been grouped to indicate a single Langkawi thrust fault zone (Jones 1966, 1978), or also known as the Kisap thrust zone (Koopmans 1965). It will be demonstrated in this note that the compressional fault phenomena most probably were produced by two separate structuration processes. This idea evolved from an observation of a low-angle reverse thrust at the northeast tip of the main Langkawi island. There, off Tanjung Rhu the cliffed coast of Ordo-Silurian, bedded Setul limestone shows disharmonic structures (fig. 2 & fig. 3). The lower part of the cliff consists of thick-bedded limestone that strikes  $310^{\circ}$  and dips  $17^{\circ}$  toward northeast. The dip and azimuth are similar to those shown on the geological map by Jones (1966). On top of these regular beds sits a prominent conical hill that is formed by a partially eroded antiform of similar-looking bedded limestone. The antiformal axis plunges at 10 degrees in  $N50^{\circ}E$  direction. Its NW limb is somewhat steeper than its other limb (fig. 3). The separation between these disharmonic structures in the same limestone is interpreted as a low-angle reverse fault surface whose strike is NE, or parallel to the antiformal axis. The latter is considered to represent a fault-drag structure produced by the reverse fault movement toward northwest. The low-angle reverse fault is now named the Rhu thrust. It strikes sub-parallel to the thrust at nearby Langgun island (fig. 1)

The structural geology sketch map of figures 1 and 4 are based on Jones' (1966) District Memoir. Revisions and additions to the original map comprise the entire geological architecture of the Cambrian Macincang area (Tjia 1989), the existence of "Rebanggun beds" (Gobbett 1972), the orientation of the

## LOW-ANGLE THRUST AT TANJUNG RHU, LANGKAWI

Raya fault as it appears on satellite images, and the inclusion of the Rhu thrust published in this note. The sketch map indicates two sets of distinctly different orientations of thrust faults. The Kisap and Dayang Bunting thrusts (fig. 4) are interpreted to represent the older structure that together appears to be the Langkawi thrust of Jones. The Kisap reverse fault thrusts Lower Palaeozoic rocks southwest-ward as shown in the Hosna quarry near Kilim. The Dayang Bunting thrust crops out at Teluk Cawi where the bedded Setul limestone developed into a large recumbent drag fold resting on a 3-m thick mylonite zone. WSW- thrusting is indicated (Tjia 1993). In short, the Langkawi thrust indicates a general westerly vergence. The second thrusting event consisted of the NE-striking Rhu, Langgun, and Batu Putih faults. Tectonic transport on these faults were NW or SE. The Batu Putih (new name) thrust at Teluk Air on the north tip of Dayang Bunting island is exposed as a steeply dipping reverse fault whose drag indicates SE vergence. On Jones' map and geological section the Batu Putih thrust fault and Langkawi thrust are shown with completely different vergences. Koopmans (1965) as well as Kimura & Jones (1967) attempted explanations -while considering all the thrust structures to belong to a single large reverse fault zone- in that the opposed vergences were modifications of subsequent deformation.

The two distinctly different orientations of thrust faults in the eastern Langkawi islands suggest separate origins as follows (fig. 4):

1. The Kisap and Dayang Bunting thrusts were produced by an older compressional event that placed the Setul terrane on top of younger rock units to its west.
2. The Batu Putih, Langgun and Rhu thrust faults were produced by a subsequent compressional event whose principal stress orientation was NW-SE. Their pattern of orientation and thrust vergence indicate strong compression and structural imbrication of the Setul rock unit.
3. In a still later structural event, the Batu Putih thrust fault (shown to be steeply dipping at Teluk Air) displaced western Langkawi including the Kisap and Dayang Bunting thrusts by 15 kilometres dextrally with respect of southeastern Langkawi (mainly the islands Tuba, most of Dayang Bunting, Timun and adjacent SE portion of the main island). If the granitoids of Kuah, northern Dayang Bunting, and western Tuba were parts of the large Raya-Sawar pluton, the lateral displacement occurred in post-granitoid time.
4. The Raya fault is also post-granitoid and from the map pattern appears to be a normal fault obliquely downthrowing to the southwest.

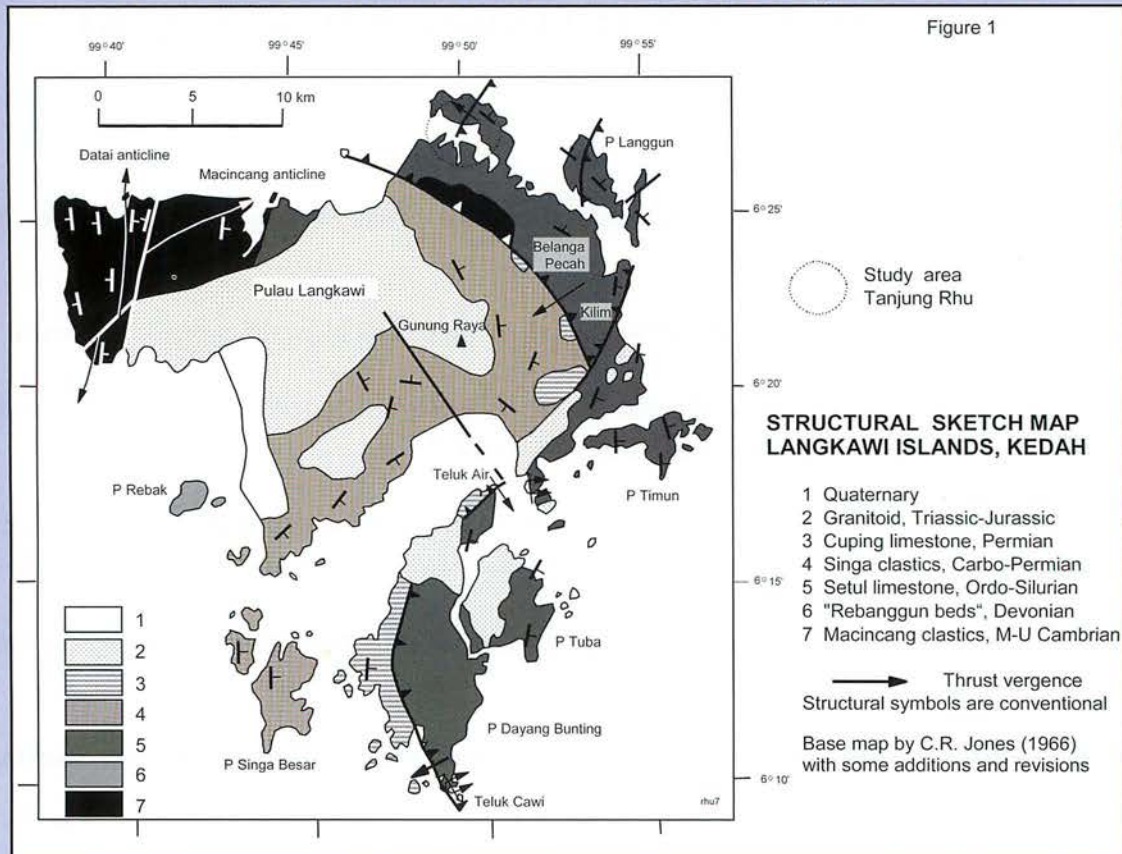
{ Manuscripts received on 3 January 2007 }

## LOW-ANGLE THRUST AT TANJUNG RHU, LANGKAWI

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# LOW-ANGLE THRUST AT TANJUNG RHU, LANGKAWI



Two orientation patterns of the thrust faults in the Langkawi islands; each being product of different compressional events. Note the 15-km dextral displacement by the Batu Putih fault.

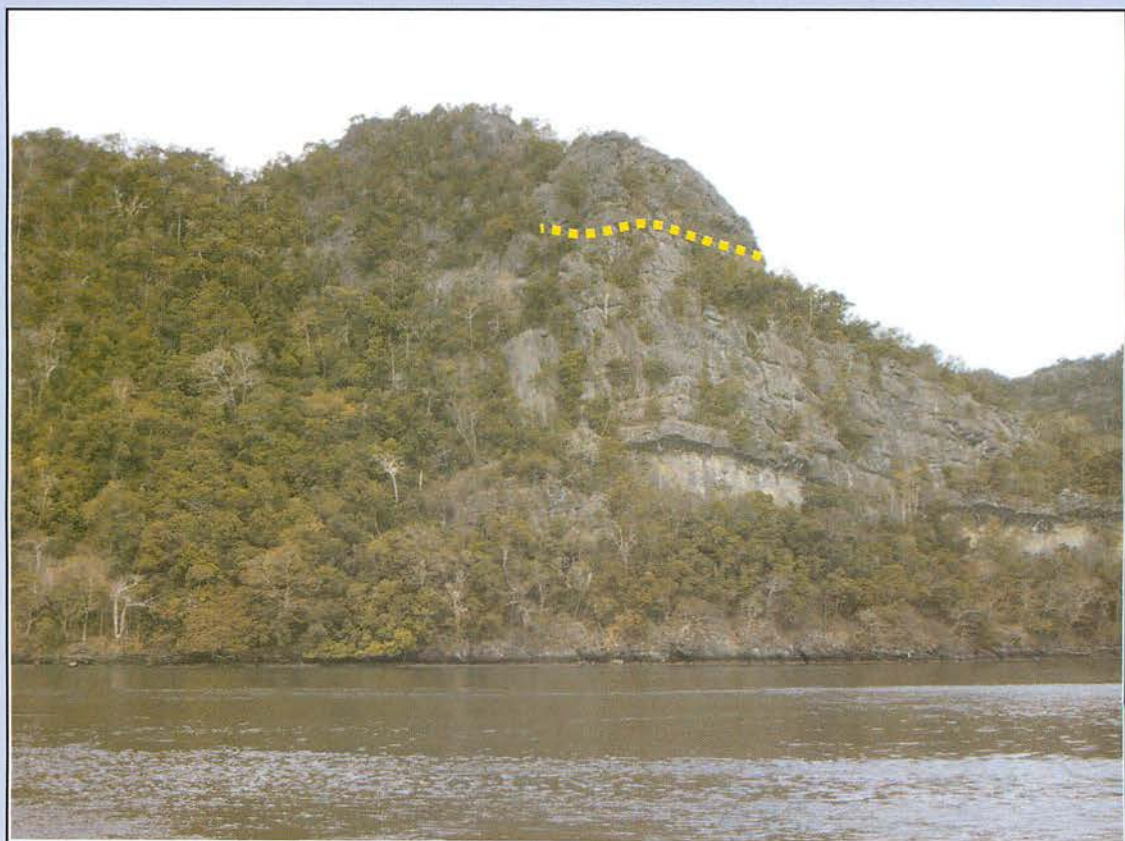
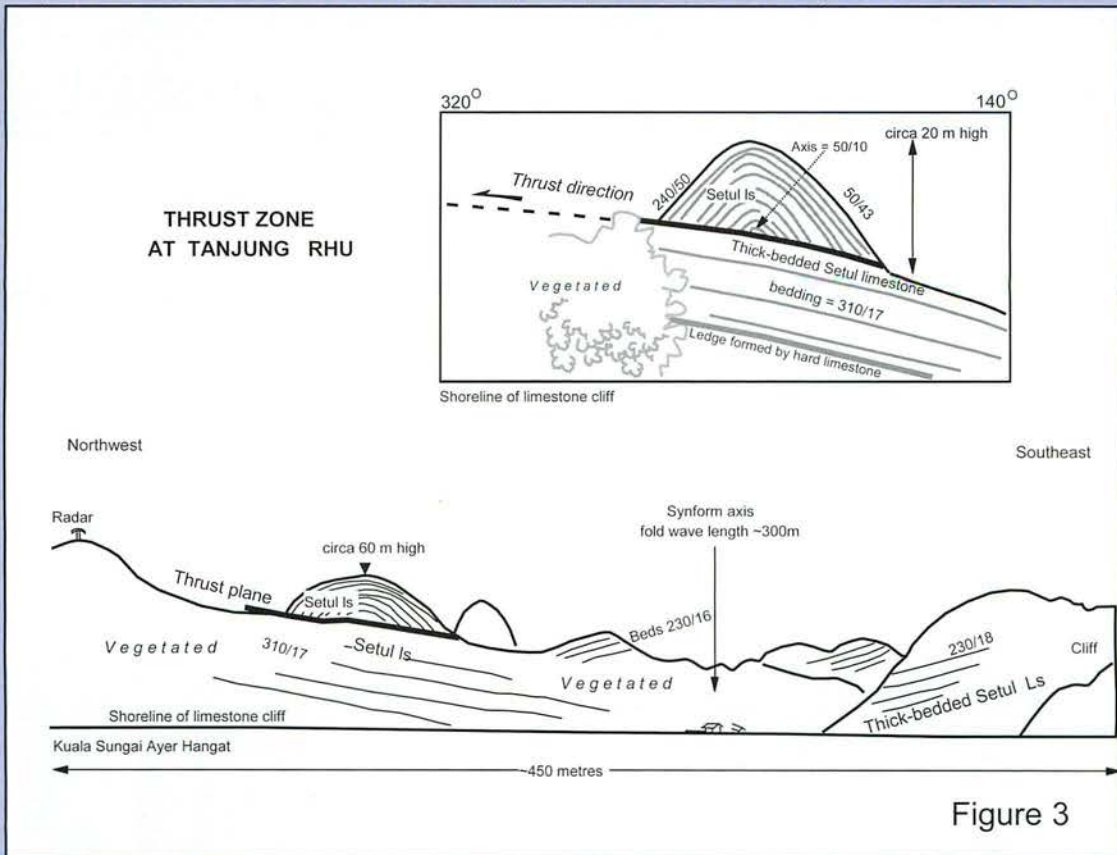
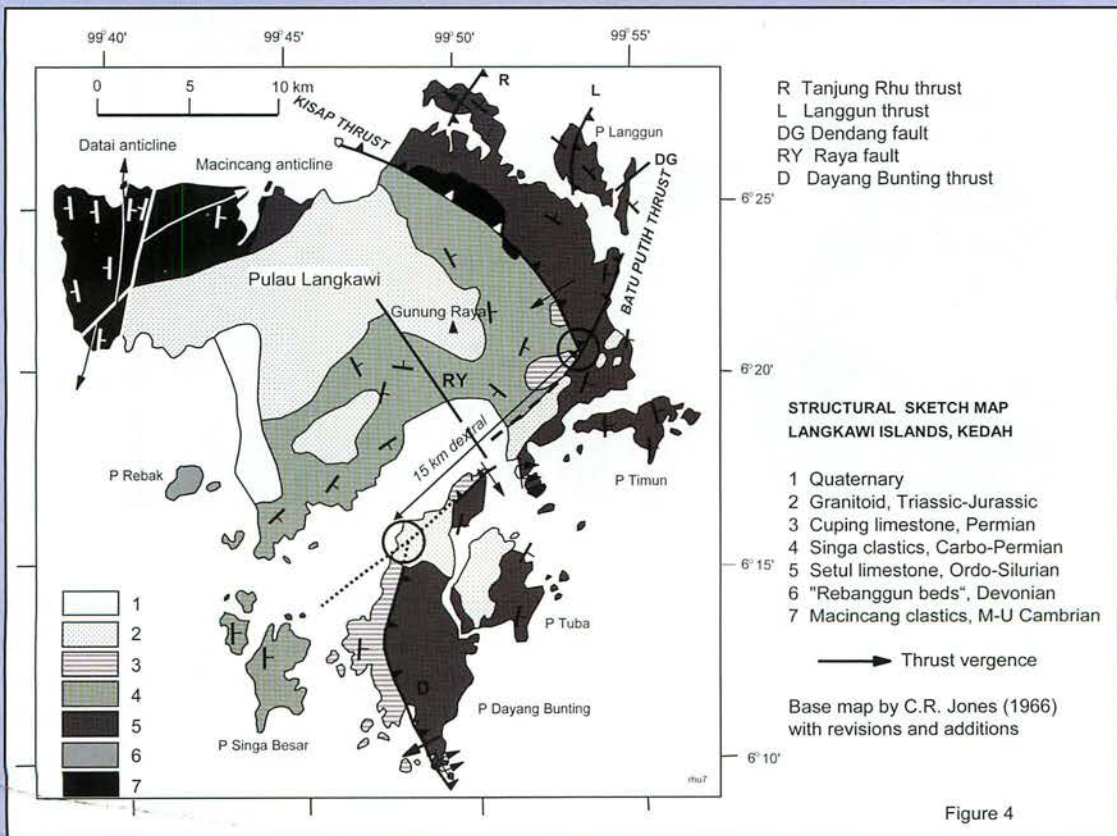


Figure 2 : Air Hangat thrust at Tanjung Rhu, Pulau Langkawi  
Thrust surface in Setul Formation near Tanjung Rhu, Langkawi. White dotted line represents the thrust surface. View from Tanjung Rhu sand spit.

# LOW-ANGLE THRUST AT TANJUNG RHU, LANGKAWI



Field sketch of the Rhu thrust seen from the same point as that of figure 2. The Setul beds below the Rhu thrust surface appears as a wide open synform with a 300 m wave length.

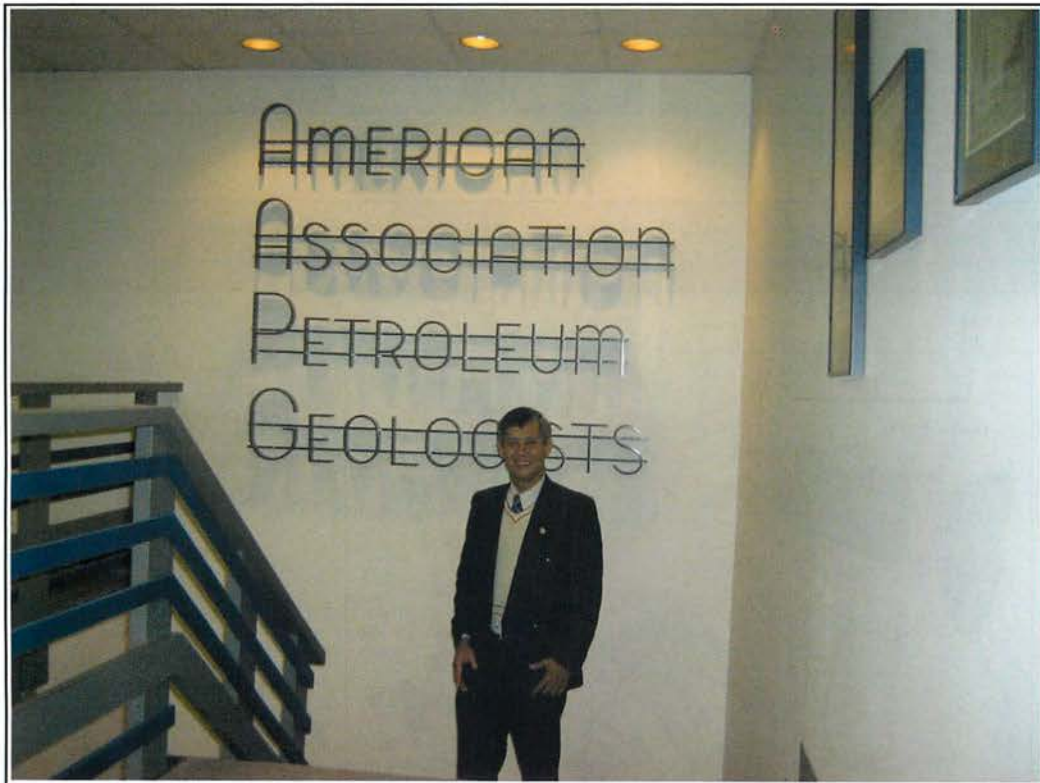


Two orientation patterns of the thrust faults in the Langkawi islands; each being product of different compressional events. Note the 15-km dextral displacement by the Batu Putih fault.

## PERTEMUAN PERSATUAN (Meeting of the Society)

**GSM PRESIDENT'S PARTICIPATION IN THE  
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS  
AAPG 26<sup>TH</sup> LEADERSHIP CONFERENCE  
IN TULSA, OKLAHOMA, UNITED STATES  
9<sup>th</sup> February 2007**

**by Professor Dr Lee Chai Peng**



*Prof Dr CP Lee at the AAPG Headquarters at Tulsa, Oklahoma*

The President of the GSM was invited to participate in the 26<sup>th</sup> Annual Leadership Conference of the American Association of Petroleum Geologists (AAPG) at Post Oak Lodge in Tulsa, Oklahoma, U.S.A in his capacity as president of an affiliate society. The conference began with a tour of the AAPG Headquarters in Tulsa on the morning of 9 February 2007. The group was guided around the various parts of the two building complex housing the AAPG's sixty over staff who take care of all the various activities of the huge organization from publicity to organizing meetings to publications.



## AAPG 26<sup>TH</sup> Leadership Conference In Tulsa, Oklahoma, USA

The first afternoon was a session on “Developing a Plan of Action” by Hermann Eben where participants were educated on what was needed to develop a comprehensive business plan with a mission, current reality, measurable goals and specific action items. This was followed by dinner and a great social evening where participants could relax in a mock casino with play money that would allow them to “gamble” and win prizes of AAPG goodies if they were lucky.

The second day began with an introduction to the opening session by Executive Director Rick Fritz followed by “Welcome and State of the Association” by President Lee Billingsley. There were two training sessions for participants to choose from after that. I attended the session on “Building a Great Society – What makes a society great and how to develop partnership with members for success” by Glen Tecker. The other choice was “Thinking on your feet – developing and improving public speaking skills” by Hermann Eben which was more geared towards the younger participants including some representatives from AAPG student chapters.

There was a presentation of AAPG Officer Candidates after lunch followed by a focus group sessions. There were six focus groups:

- 1) Best Practices of Affiliated Societies (which I participated in);
- 2) Membership: Recruitment and Retention;
- 3) Future of Petroleum Geoscience;
- 4) Best Practices of the Sections and Regions;
- 5) Student Activities –Recently Debated Issues;
- 6) GEO-DC Session- AAPG Brings Science to Washington (which I participated)

The day ended with more fun and food at dinner. The last day began with a general session after breakfast with the various reports (HoD Report, Advisory Council Report, Division Reports, Executive Director’s Report, Focus Reports from Breakout Sessions) after the President’s Opening Remarks. There was an open forum to discuss various hot topics such as Strategic Plan, Graduated Dues, Global Climate Change, Business Plan and International Offices chaired by the AAPG President. The conference officially concluded after closing statements by President Lee Billingsley and Executive Director Fritz.

In addition to taking part in the various sessions, I had a great time networking and talking with other participants at the conference. I had discussions on GSM-AAPG cooperation with Executive Director Rick Fritz and Carol McGowen, the Sections & Regions Manager of AAPG.

I visited my former theses supervisor, Dr. Peter Stauffer, a founding member of the Geological Society of Malaysia, in San Francisco on my way back. He brought me to visit his *alma mater*, Stanford University and the Headquarters of the United States Geological Survey in Menlo Park where he now works as a Technical Editor.

**Prof Dr Lee Chai Peng**



*C.P. Lee with Peter Stauffer at Golden Gate Bridge in San Francisco*



*C.P. Lee with AAPG President Lee Billingsley.*



*C.P. Lee at Post Oak Lodge, Tulsa*



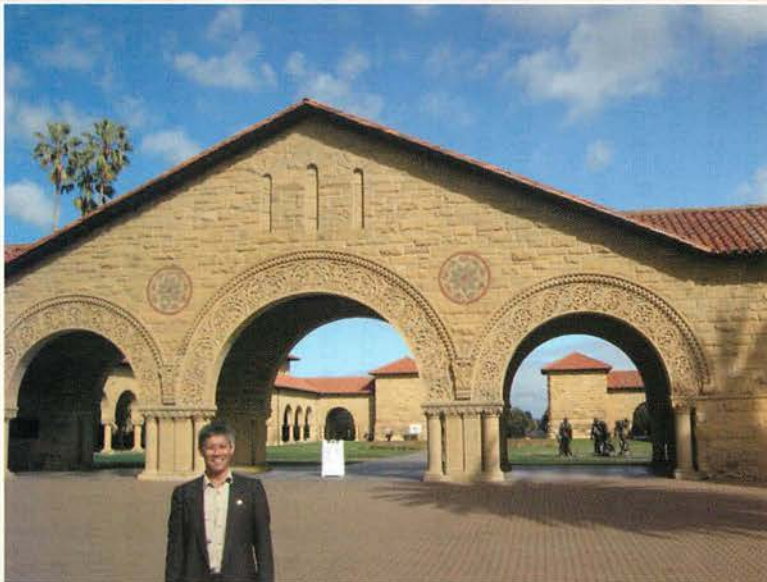
*C.P. Lee with Fazal Hosein, President of Trinidad and Tobago Geological Society.*



*C.P.Lee with AAPG Executive Director Richard Fritz.*



*C.P.Lee at US Geological Survey Headquarters at Menlo Park.*



*C.P.Lee at Stanford University*



*C.P.Lee with AAPG Sections & Regions Manager Carol Mc Gowen and Indian Association of Petroleum Geologists President Ram Jokhan.*

# PERTEMUAN PERSATUAN (Meeting of the Society)

## Ceramah Teknik (Technical Talk)

### THE PRACTICE OF ENGINEERING GEOLOGY IN MALAYSIA

10 January 2007

Geology Department

University of Malaya

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

#### Report

#### MR TAN BOON KONG

Having initiated the Chairman's Lecture series by Chairman of the various GSM Working groups it is not surprising that Tan Boon Kong, who is the Chairman GSM Working Group on Engineering Geology & Hydrogeology, took the cue again in 2007 to refresh the series by giving his talk entitled "The Practice of Engineering Geology in Malaysia".

Boon Kong started his lecture by quoting a few references with regard to the practice of Engineering Geology. These include "...on the role of the Engineering Geologist during construction ..... to forewarn of any ominous geological features....." (Rawlings, 1972), "...Because nature is infinitely variable, the geological aspects of our profession assure us that there will never be two jobs exactly alike....." (Peck, 1973), ".....The subject of my lecture this evening reflects my experience over the past 30 years that engineers and geologists have not yet learned to communicate efficiently with each other....." (Henkel, 1982, 22<sup>nd</sup> Rankine Lecture), and ".....Geology should not be overlooked in site investigations....." (Chan, 1996).

Next Boon Kong went on to present case studies of rock slope stability, foundation in limestone bedrock, limestone cliff stability, tunnels, riverbank instability, slope failure due to rapid drawdown and urban geology and hillside development.

During question time, Boon Kong took the opportunity to advise the audience, which included many student members, the limits of involvement of a geologist in engineering projects and aspects meant for the engineer should be left to the expertise of the engineer.

**Prof Dr Teh Guan Hoe**

#### Biography

Mr. Tan was formerly an Associate Professor in Engineering Geology at Universiti Kebangsaan Malaysia, Bangi, where he has served for the past 33 years. He retired recently from the university. In addition to teaching and research in the university, Mr. Tan was also engaged occasionally on an ad-hoc or project basis in consulting practices in Engineering Geology with the private sectors, mostly with the Geotechnical and Civil Engineering consulting companies or contractors.

Mr. Tan has also been actively involved in professional bodies such as the Geological Society of Malaysia (GSM), the Institute of Geology Malaysia (IGM) and the Institution of Engineers Malaysia (IEM) as a member of the Council (GSM, IGM) or Technical Divisions (IEM).

# THE PRACTICE OF ENGINEERING GEOLOGY IN MALAYSIA



*Tan BK delivering his talk*



*Tea time for the audience*



*Prof Dr Teh GH introducing Tan BK*



*Tan BK together with Prof Dr Teh GH*

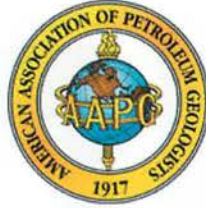


*Part of the audience at the talk*



*Old friends - Prof Dr Teh GH presenting a token of appreciation to Tan BK*

## Ceramah Teknik (Technical Talk)



**AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**  
**STUDENT CHAPTER**  
**UNIVERSITY OF MALAYA**  
 in association with  
**KELAB GEOLOGI UNIVERSITI MALAYA**

### **GeoIntro: An Introduction to Geology**

**27<sup>th</sup> JANUARY 2007**  
**Geology Department**  
**University of Malaya**

Concerned and keen to introduce the subject of geology to the school students had led the American Association of Petroleum Geologists (AAPG) Student Chapter University of Malaya to organize a career talk entitled **GeoIntro: An Introduction to Geology** on Saturday, 27<sup>th</sup> January 2007 at Department of Geology, University of Malaya. The one-day event was attended by 92 students from Catholic High School, Petaling Jaya and Kolej Tunku Abdul Rahman, Kuala Lumpur. Geological Society of Malaysia (GSM), PETRONAS and Schlumberger had again showed their interest towards the students' community, by gladly sponsoring this exciting event.

The registration counter opened as early as 8.00 a.m. and each participant was given booklets and t-shirts sponsored by PETRONAS. The event commenced at 9.00 a.m. with Professor Dr Wan Hasiah Abdullah, Head of Department of Geology, University of Malaya giving her welcome address. In her speech, Professor Dr Wan Hasiah encouraged the students to consider geology as one of their choice when they enroll in their dream university in 2008 after completing their high school. She emphasized that the prospect for geology graduate is really bright in future especially in the oil and gas industry.

Next, Professor Dr. Lee Chai Peng, who is the current President of GSM presented his talk entitled **Rocks Whisperer** that had positively drawn the attention of the crowd. Most of the students were intrigued and interested to each and every slide that was shown during his talk. Professor Dr Lee presented his talk very well and most students agreed that his talk was the most interesting part of the event.

## Ceramah Teknik (Technical Talk)

To make the event more meaningful to the students who attended, Mohd Fairus Hj Md Saad, who is currently in his final year of study in geology was invited to give a presentation on **Life of a Geology Student**. His presentation was more on the student's view of geology and his slideshows were really interesting – full of graphics and animations – giving some ideas to participants of what their lives would be like if they enroll in geology.

A film show on **Rock Cycle** was shown at 10.30 a.m. followed by coffee break. The next session started at 11.15 a.m. by Mrs. Haziah Mohamed, the Senior Manager of Exploration Capability Management in PETRONAS Carigali Sdn Bhd (PCSB). She gave an interesting presentation on **Career with PETRONAS** which included a 15 minutes short movie on PETRONAS. Mrs Haziah Mohamed, was accompanied by Mrs Zaidah Md Zain and Mr Wan Mohd Sukri Wan Tahar, encouraged the student to consider PETRONAS as one of their employer after they graduate.

Schlumberger representative, who is also a Department of Geology alumna, Mrs Siti Sarah Baharuddin, was next with her presentation on **Career with Schlumberger**. She was accompanied by Mr Hichem Mahdi, the Recruitment Manager for Schlumberger. She made her talk more interesting and exciting by involving the participants in a Q&A nature presentation. Overall, most students had a great time throughout the morning session. The event stopped at 1.10 p.m. to give chance to all participants and guests to dine on the special menu lunch at the Geology Museum lobby. All food and beverages were sponsored by Schlumberger and Geological Society of Museum.

The next session began at 2.00 p.m. and involved an exhibition tour. The exhibitions were held at three stations – the Geology Museum, the Map Laboratory and the Mineral & Paleontology Laboratory. The participants were divided into groups and assisted by facilitators during the tour. At each station, different subjects relating to geology such as mineralogy, paleontology, sedimentology and tectonics were introduced in details to the participants. To make the exhibition more interesting, pop quizzes were given during the exhibition and each participant who answered the question correctly was given a memento sponsored by Schlumberger. The event came to an end at 5.00 p.m. with an evening tea.

On the whole the event was another success for the AAPG Student Chapter University of Malaya. We would like to express our gratitude to all members, non-members, participants and lecturers, especially Professor Denis Tan Ngoh Kiat, Professor Dr Wan Hasiah Abdullah, Professor Dr Lee Chai Peng and Dr Nur Iskandar Taib who had willingly helped us to make this event possible. Profound thanks go to PETRONAS and Schlumberger who had ardently cooperated with us to make this occasion another event to remember. We really hope that we had inspired and given the participants valuable knowledge on geology and genuinely wish that our little contribution towards the community will make a big impact in the future. So, friends! Don't hesitate to choose geology as your career in the future. You might be surprise with what's in store for you!

**AIDIL HANNAN ADNAN**  
**Secretary,**  
**American Association of Petroleum Geologists,**  
**Student Chapter,**  
**University of Malaya.**

## GeoIntro: An Introduction to Geology



From left : Representatives from PETRONAS, Mr Wan Mohd Sukri Wan Tahar, Mrs Zaidah Md Zain, Mrs Haziah Mohamed, Lee Seng Keong (AAPG SC UM President), Prof Dr Wan Hasiah Abdullah (Head of Geology Department), Mr. Hichem Mahdi (Schlumberger) and Prof Denis Tan Ngoh Kiat (AAPG SC UM Advisor)



Professor Denis Tan Ngoh Kiat (AAPG SC Universiti Malaya Advisor) with Mr Hichem Mahdi from Schlumberger, Prof Dr. Lee Chai Peng and Prof Dr Wan Hasiah Abdullah (Head of Geology Department)



Participants at the exhibition area in Geology Museum



Participants having their morning break.



Participants at the exhibition area in Geology Museum



Lee Seng Keong (AAPG SC UM President) giving a memento to Professor Dr Lee Chai Peng.



## Ceramah Teknik (Technical Talk)

### GSM - MSIA TECHNICAL TALK

“A story from Hong Kong: Nearly everything about geology and geotechnics”

**30 January 2007**

**Geology Department**

**University of Malaya**

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

**Abd Rasid Jaapar**

**MSc (HKU), BSc (Hons) (UKM), Cert. SHO (NIOSH)**

*FGS, MIGM, M(AEG), AM(IEM), M(IAEG), M(SEAGS)*

**Email: arjaapar@gmail.com**

### Report

The above talk was jointly organized by GSM and MSIA (Malaysian Site Investigators Association) at the Dept. of Geology, UM.

The speaker was Sdr. Abd. Rasid Jaapar of Soils & Foundations Sdn. Bhd. Sdr. Rasid is a former graduate of UKM, and recently obtained an MSc (Applied Geosciences) in Engineering Geology from the Univ. of Hong Kong – hence this talk on Hong Kong.

The “story” was a long one, 1 hr. and 45 mins. in total, and it covered numerous aspects of geology, engineering geology and geotechnics, including detailed site investigation/drilling practices in Hong Kong. Case studies on major slope failures, slope engineering, the GEO (Geotechnical Engineering Office), weathering, etc. featured heavily in the talk, as Hong Kong is indeed famous for these aspects of engineering geology and geotechnics. Impressive photographs of various rock formations, in particular large columnar joints in volcanic rocks, were also shown. A quote by Peter Fookes (eminent British professor, retired, in Engineering Geology) is also most instructive: “In Engineering Geology, there is never ever anything that is *unforeseeable*, just *unforeseen*”.

The speaker also informed the audience about a new publication that should interest all practising engineering geologists and geotechnical engineers, namely: “Engineering Geological Practice in Hong Kong” (2006), by the GEO of Hong Kong. Members who are interested please contact Sdr. Rasid for details.

**Tan Boon Kong**

## Ceramah Teknik (Technical Talk)

### Biography

Abd. Rasid Jaapar graduated with Bachelor of Science (Honors) from National University of Malaysia in 1992 majoring in geology. He received special awards from HRH Yang Dipertuan Agung Malaysia as well as from the university's chancellor, HRH Yam Tuan Besar Negeri Sembilan for his involvement in Reserved Officer Training Unit. Recently, he completed his Master in Engineering Geology at the University of Hong Kong where he won the Halcrow Prize for mark of distinction and overall best student.

His major specialization is in engineering geology and geotechnical engineering with occasionally involved in hydrogeology (groundwater) and geo-environmental engineering. He has very extensive experience in site investigation works onshore and near shore such as major infrastructure projects in Malaysia; North South Expressway, Malaysia-Singapore Second Crossing, Shah Alam Expressway, National Sport Complex, Light Rail Transit Phase II, Kuala Lumpur City Centre, Putrajaya and Cyberjaya Development, Electrified Double Track, etc. Some of the near shore projects were Pulau Bunting Development, Kuala Terengganu flood mitigation, Tanjung Bin Power Plant, etc. He also has been working for projects in Indonesia, the Philippine, Singapore, Vietnam and Saudi Arabia.

Mr. Abd Rasid started his career with Soils & Foundations Sdn Bhd as geologist upon graduation in 1992. He joined Soil Centralab Sdn Bhd in 1995, a wholly-owned subsidiary of Propel Berhad part of Renong Group Berhad. His career progress well in the company from year to year. He rejoined Soils & Foundations Sdn. Bhd. in 2000 and served his current position until present.

He is actively involved in many professional associations as member as well as committee or council member. He is a member of Geological Society of Malaysia, Institute of Geology Malaysia, International Association of Engineering Geology, Southeast Asian Geotechnical Society, Association of Engineering Geologists, Environmental Management and Research Association, International Association of Hydrogeologists and affiliate member of the Institution of Engineers Malaysia. He also represented his company for membership in the Malaysian Site Investigators Association.

He served in various positions and capacities in respective association and he also involved actively in Construction Industry Development Board especially when it concern the industry and profession that his involved. He also had published several technical papers mainly in local publications and involved in many presentations, lectures, etc.

His involvement with safety and health related activities started when he worked with Soil Centralab Sdn Bhd where he served as one of the member of the company Safety & Health Committee. He had completed training program at National Institute of Occupational Safety and Health Malaysia (NIOSH) for Certificate for Safety & Health Officer. Currently, he served as Manager for Soils & Foundations Sdn Bhd and as the Group Safety, Health and Environments Officer.

## GSM - MSIA TECHNICAL TALK

“A story from Hong Kong: Nearly everything about geology and geotechnics”



Rasid delivering his talk



Tan Boon Kong introducing Rasid



Tea time before the talk show



Tan BK having a light chat with Ling NL



Part of the audience at the talk



Rasid receiving a token of appreciation from Tan BK, Chairman, Working Group, Engineering Geology & Hydrogeology(GSM)

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

### Keahlian (Membership)

#### Full Members

1. Lim Eng Hwa (Uzma Engineering sdn Bhd)
2. Natasya Pawanteh bt Abdul Hamid (Orogenic Resources Sdn. Bhd)
3. Dr. Kelly Maguire (Shell Sarawak)

#### Associate Members

1. Paul Robert Miller (RPS Energy)
2. Lee Chee Beng (Petroleum Geoservices)
3. Azreen Nor bin Abdul Rahman (Techno Rada Sdn. Bhd, MIRI)
4. Nor Azizah bt Abu Bakar (Kump. IKRAM)
5. Mohd Hardy bin Laidin@Saidin (JKR, Sabah)

#### Student Members

1. Khairul Azlan Mustapha (UM)
2. Wong Soon Wai (UM)
3. Rajeevan A/L Balakumar (UM)
4. Lim Toon Hoong (UM)
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2. Mario Wannier, 3737 Bellaire Boulevard, Suite 2046A, Houston, Tx. 77025, USA
3. Sia Hok Kiang, 43, Jln Eksekutif U1/6, Glenmarie Court, 40000 Shah Alam
4. Patrick Gou, Sarawak Shell Bhd., Geological Services, EPA-T-DGS, Locked Bag No. 1, 98009 Miri, Sarawak
5. S. Senathi Rajah, 40, Lorong Aminuddin Baki 2, Taman Tun Dr. Ismail, 60000 Kuala Lumpur. Email address: [rajahss@pd.jaring.my](mailto:rajahss@pd.jaring.my)
6. Low Keng Lok, B-2-10, Dataran Glomac, Jalan SS6/20, Pusat Bandar Kelana Jaya, 47301 Petaling Jaya

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

### **Pertambahan Baharu Perpustakaan (New Library Additions)**

1. Episodes, vol. 29, no. 4, 2006
2. Journal of the Geological Society of India, vol. 68, no. 3, 2006
3. Geological Bulletin of Turkey, vol. 49, no. 3, 2006
4. Earth Science Frontiers, vol. 13, nos. 5 & 6, 2006
5. Journal of Shijiazhuang University of Economics, vol. 29, no. 5, 2006
6. Acta Geoscientica Sinica, vol. 27, nos. 4 & 5, 2006
7. Acta Palaeontologica Sinica, vol. 45, nos. 1-4, 2006
8. Acta Micropalaeontologica Sinica, vol. 23, nos. 1-4, 2006
9. USGS Professional Paper no. 1688 & 1661-C, 2005
10. Geosciences Journal (Korea), vol. 10, no. 4, 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, 3<sup>rd</sup> 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)

### **GEOLOGY PHOTOS WANTED!**

The Peninsular Malaysia Book Author's Group is writing a new book on Peninsular Malaysia to be published jointly by our Geological Society of Malaysia and University of Malaya. We are calling for high quality and suitable geological photos together with captions on any aspect of Peninsular Malaysia Geology. Photos are to be submitted to GSM to be eligible for selection. We will also be using photos from past GSM Photo Competition. All photos used will be acknowledged. The draft of the book is scheduled for June 2007.

## BERITA-BERITA LAIN (Other News)

### Up Coming Events

May 7-18, 1007: Production operations 1, 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](mailto:registrations@petroskills.com)

May 10-12, 2007: 3MA International Symposium: Magmatism, metamorphism, associated mineralizations, Fes, Morocco. Contact: Prof. Youssef Driouch, email: [youssef.driouch@libertysurf.fr](mailto:youssef.driouch@libertysurf.fr).

May 11-14, 2007: OGA 2007 – Oil Gas Asia 2007 – Asian Oil, Gas and Petrochemical Engineering Exhibition, Kuala Lumpur, Malaysia. Contact: email: [oga@oesallworld.com](mailto:oga@oesallworld.com); website: [www.oilandgas-asia.com/](http://www.oilandgas-asia.com/).

May 14-18, 2007: Coastal Sediments '07 – 6<sup>th</sup> Technical Special Conference on Coastal Sediments, New Orleans, Louisiana, USA. Contact: [copri@asce.org](mailto:copri@asce.org); website: [www.jasce.org/conferences/cs07/](http://www.jasce.org/conferences/cs07/)

June 3-8, 2007: Landslides and Society (1<sup>st</sup> North American Congress), Vail, Colorado, USA. Contact: Dr. Keith Turner, email: [kturner@mines.edu](mailto:kturner@mines.edu).

June 5-7, 2007: 7<sup>th</sup> Asia Pacific Mining Conference and Exhibition “Sustaining the Momentum for Renewed Growth”, Makati Shangri-La, Manila, Philippines. Contact: Conference Secretariat, Exhibitsasia, Macalinao Bldg., 162 Kanlaon St., Sta. Mesa Heights, Quezon City, Philippines. Tel: 632 740 9128/632 740 9138; Fax: 632 712 9405/632 731 7191; email: [vangiequiason@exhibitsasia.com](mailto:vangiequiason@exhibitsasia.com)

June 10-13, 2007: Rapid Excavation and Tunnelling Conference RETC 2007, Toronto, Canada. Contact: Tara Davis, SME, 8307 Shaffer Parkway, P.O. Box 277002, Littleton, Co. 80127, USA. Email: [davis@smenet.org](mailto:davis@smenet.org).

June 11-14, 2007: OGA 2007 – Oil and Gas Asia 2007 – Asian Oil, Gas and Petrochemical Engineering Exhibition, Kuala Lumpur, Malaysia. Contact: email: [oga@oesalword.com](mailto:oga@oesalword.com).

June 18-22, 2007: Basic petroleum technology, 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](mailto:registrations@petroskills.com)

July, 2007: Rock Mechanics (11<sup>th</sup> Congress of the International Society of Rock Mechanics), Lisbon, Portugal. Contact: Sociedade Portuguesa de Geotecnia, LNEC, Av. Do Brasil, 101, 1700-066 Lisboa, Portugal; email: [spg@inec.pt](mailto:spg@inec.pt)

July 2-6, 2007: Operations 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](mailto:registrations@petroskills.com)

## BERITA-BERITA LAIN (Other News)

### Up Coming Events

July 9-13, 2007: Production logging, Singapore. Contact: PetroSkills, P.O. Box 35448, Tulsa, Ok. 74153-0448, USA. Tel: 800 821 5933/918 828 2500; Fax: 918 828 2580; email:

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July 16-20, 2007: Development 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:

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July 23-27, 2007: Sandstone reservoirs, 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](mailto:registrations@petroskills.com)

July 23-27, 2007: Introduction to seismic stratigraphy: an exploration workshop, 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](mailto:registrations@petroskills.com)

July 23-27, 2007: Basic 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](mailto:registrations@petroskills.com)

July 30-Aug 3, 2007: Advanced seismic stratigraphy: A 2-D, 3-D sequence and wavelet analysis workshop. 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](mailto:registrations@petroskills.com)

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](mailto: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](mailto: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](mailto: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](mailto:registrations@petroskills.com)

## Up Coming Events

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](mailto: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](mailto: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](mailto:registrations@petroskills.com)

September 17-21, 2007: 35<sup>th</sup> IAH Congress – Groundwater and Ecosystems, Lisbon, Portugal. Contact: website: [www.geo.ua.pt/aih-gp/iah2007](http://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](mailto:iaeg@plaza.snu.ac.kr); website: [www.iaeg2007.org/](http://www.iaeg2007.org/)

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](mailto: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](mailto:registrations@petroskills.com)

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](mailto:registrations@petroskills.com)

November 28-30, 2007: 2<sup>nd</sup> 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](mailto:cipremie@singnet.com.sg)

December 5-7, 2007: 8<sup>th</sup> Pacific Conference on Earthquake Engineering, Singapore. Contact: The Secretariat, 8<sup>th</sup> 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](mailto:8PCEE@ntu.edu.sg); website: [www.ntu.edu.sg/cee/8PCEE/](http://www.ntu.edu.sg/cee/8PCEE/)

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



## Up Coming Events

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

May 12-13, 2008: Exploiting Geoscience Collections. A joint meeting between the Geoscience Information Group and the Geological Curators Group. Contact: Jeremy Giles, National Geoscience Data Centre, British Geological Survey, Keyworth, Nottingham NG12 5GG, UK. Tel: +44 (0) 1159363220; email: [jrag@bgs.ac.uk](mailto:jrag@bgs.ac.uk)

## IN MEMORIAM

### MR. VICTOR HON (1946 – 2006)

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The geoscience fraternity is saddened by the lost of Mr. Victor Hon, former Director of Geological Survey Department, Sarawak (now called Minerals and Geoscience Department, Sarawak).

Mr. Victor Hon was born in Kuching, Sarawak, on the 11<sup>th</sup> September, 1946. He earned a Bachelor of Science degree in geology from Carlton University, Canada in May 1970. After graduation, he joined the then Geological Survey Department, Sarawak as a month-to-month paid temporary staff. He was appointed to a permanent position in the department on 13.07.1970. He opted for early retirement in 1997, after serving the department for a total of 27 years. He served in various positions and his main areas of interest were in mapping and economic geology.

Mr. Victor Hon was a prolific writer and author of dozens of research papers and articles related to mineral exploration at both local and international levels. His dedication to research with attention to accuracy and readability was remarkable. His immense knowledge of geology also served him well as an editor, after his optional retirement, for the geological reports and mapping reports produced by the Mineral and Geosciences Department Malaysia, Sarawak.

Mr. Victor's professional credentials were impeccable and his inspiration of lifelong learning led him attending seminars, conferences and courses conducted by reputable local and international organizations. Victor Hon tirelessly promoted geology by delivering more than 10 papers and participating in the excursions of the annual geological conference organized by the Geological Society of Malaysia.

Mr. Victor Hon was also an avid tennis and golf player.

Mr. Victor Hon passed away on the 21<sup>st</sup> November 2006, at the age of 60 after a brief struggle with colon cancer. He was survived by his loving wife, Mdm. Lim Soh Hua, a son, Mr. Robert Hon Sheng Fong and a daughter, Ms. Amanda Hon Su Yin.

Mr. Victor Hon's insatiable desire to learn with boundless energy and his total dedication toward his duties as a willing performer, scientist, leader and organizer will be greatly missed but will long be remembered.

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- 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 .
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- 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 .
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- Bulletin 33** (Nov 1993). 419 p. Proceedings Symposium on Tectonic Framework and Energy Resources of the Western Margin of the Pacific Basin. Edited by G.H. Teh. Price: RM40.00 .
- Bulletin 34** (Dec 1993). 181 p. Bibliography and Index – Publications of the Geological Society of Malaysia 1967-1993. Compiled by T.F. Ng. Edited by G.H. Teh. Price: RM20.00 .
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- Bulletin 37** (Jul 1995). 506 p. Proceedings AAPG-GSM International Conference 1994. Southeast Asian Basins: Oil and Gas for the 21<sup>st</sup> Century. Edited by G.H. Teh. Price: RM60.00 .
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- 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 .
- Bulletin 44** (July 2000). 178 p. A collection of papers from Annual Geological Conference 1999. Western Belt & Paleozoic of Peninsular Malaysia Seminar 1999 & others. Edited by G.H. Teh. Price: RM30.00
- Bulletin 45** (May 2002). 375 p. Annual Geological Conference 2002. Conference Issue. Edited by G.H. Teh, Ismail Yusoff, Azman Abdul Ghani & T.F. Ng. Price: RM50.00 .
- Bulletin 46** (May 2003) 489 p. Annual Geological Conference 2003. Conference Issue. Edited by G.H. Teh, Alex Unya Ambun, Askury Abdul Kadir & T.F. Ng. Price: RM60.00 .
- Bulletin 47** (Dec 2003). 179 p. Papers from Petroleum Geology Conference 2002, Petroleum Geology Conference 1999 and others. Edited by G.H. Teh. Price: RM60.00 .
- Bulletin 48** (May 2004). 130 p. Annual Geological Conference 2004 Conference Issue. Edited by Lee Chai Peng, Mohd. Shafeea Leman, Joy J. Pereira & T.F. Ng. Price: RM30.00 .
- Bulletin 51** (2005). 199 p. Annual Geological Conference 2005 Conference Issue. Edited by Nur Iskandar Taib. Price: RM30.00
- Abstracts of papers** (1972). Regional Conference on the Geology of Southeast Asia. Kuala Lumpur, 1972. 64 p. 8 figs. 3 tables, many extended abstracts. Edited by N.S. Haile. Price: RM2.00 .
- Proceedings of the Workshop on Stratigraphic Correlation of Thailand Malaysia Vol. 1.** (1983). 383 p. Technical Papers. Price: Member: RM5.00; Non-Member: RM15.00 .
- Warta Geologi** (Newsletter of the Geological Society of Malaysia). Price: RM5.00 per bimonthly issue from July 1966.
- Geological Evolution of Southeast Asia** (1996) (Reprinted Edition) by C. S. Hutchison. 368 p. Price: Member :RM50.00; Non-Member :RM100.00; Student :RM30.00 .
- Common Rocks of Malaysia (Colour Poster)**. Price: Member: RM8.00; Non-Member: RM10.00; Student: RM7.00 .
- Malaysian Stratigraphic Guide** (Dec 1997). 30 p. Price: Member: RM5.00; Non-member :RM10.00; Student Member: RM2.00 .
- Proceedings Annual Geological Conference 2000**. 435 p. Edited by G.H. Teh, Joy J. Pereira and T.F. Ng. Price: RM60.00 .
- Proceedings Annual Geological Conference 2001**. 320 p. Edited by G.H. Teh, Mohd. Shafeea Leman and T.F. Ng. Price: RM50.00 .
- Geology of Borneo Island (2001)** CD-Rom & Map (Hard copy 2 sheets) with explanatory notes. Compiled by Robert B. Tate. Price: RM60.00.
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 Member: RM60.00 Student Member: RM30.00  
 Non-member: RM100.00 Student Non-member: RM40.00
- All prices quoted are not inclusive of postage. Please write in for details on postage. Allow 8-10 weeks for delivery. For orders, please write to the Society and you will be invoiced. Cheques, money orders and bank drafts must accompany all orders.
- Orders should be addressed to:**  
 The Hon. Assistant Secretary,  
 Geological Society of Malaysia,  
 c/o Dept. of Geology, University of Malaya,  
 50603 Kuala Lumpur, MALAYSIA  
 Tel: 603-79577036, Fax: 603-79563900, E-mail: geologi@po.jaring.my

**NOTES**

**NOTES**

## Snapshots of GSM's Yesteryear....



SECOND YEAR FIELD EXCURSION, AUGUST, 1961. OUTSIDE CUSTOM SHED AT BUTTERWORTH, PENANG.

Left to right:

Back row: Dr. C.S. Hutchison; Prof. W. Berry; Mrs. D. Berry; Yin Lun (on bus); Miskin b. Fakir Mohd; Harban Singh; C. Kannabhiran; S. Paramanathan; Heng Chin Kok; S. Thambypillai; Foo Kong Yee.

Middle row: Quek Kay Swee; Nga Been Hean; Choo Cheng Choo; Victoria Lim; Kok Sioh Hooi; Kok Moh Leng; Lim Poh Gaik; Tan Meng Eng;

Kneeling: Huan b. Mohd Taib; Halim b. Mohd Hassan; Wong Yew Chong; Rahman (driver).



Field excursion to Raub-Cheroh Area, Pahang.

Mr. Lau Wei Min on left.

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

# WARTA GEOLOGI

Newsletter of the

**PERSATUAN GEOLOGI MALAYSIA**  
**Geological Society of Malaysia**



Prof Dr Lee Chai Peng



Mr Tan Boon Kong



Prof A.C. Brown



Participants at the GeoIntro, AAPG SC UM



Abd Rasid Jaapar

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