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WARTA GEOLOGI

PERSATUAN GEOLOGI MALAYSIA

*Newsletter
of the*

Geological Society of Malaysia



'Joints, Breaking of the earth's crust - A series of vertical joints in granite rock'

Location : Pulau Anak Burau, Langkawi, Malaysia

By Tanot Unjah

Honourable Mention in the 2005 GSM Photo Competition

Jilid /Volume 32, No. 4 July - August 2006

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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 South-East Asian region.

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

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PERTEMUAN PERSATUAN (Meeting of the Society)

Ceramah Teknik (Technical Talk)

PHENOMENAL GEMS

12 July 2006

Geology Department

University of Malaya

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

MARILYNA LAU

F.Blancato LLC, New York City

email : marilyna24@gmail.com

Report

Marilyna Lau was in Malaysia for a short vacation when we invited her to give a talk on phenomenal gemstones. The talk was well attended by about 60 participants. A number of questions were raised on the various gemstones phenomenon and its properties. The talk was very informative on the gemstones and jewelry industry especially when it relates to New York City which is the fashion capital of the world where she works.

Marilyna is based in New York City (NYC) where she works as a diamond buyer and jewelry Quality Assurance for F.Blancato, LLC - an Italian manufacturer who sets and cast jewelry for the high end jewelry market in the United States. She obtained her Graduate Gemologist (GG) from the Gemological Institute of America (GIA) in NYC at the age of 18 and went on to do her associate degree in Jewelry Design at the Fashion Institute of Technology (FIT) in NYC. She has worked in NYC for the past 4 years as a diamond grader at IGL, Quality Assurance for jewelry at Tiffany & Co., and sales associates at Golden Pearl Jewelers.

Lau YinLeong

Summary

Phenomena in gemstones are unique characteristics that are actually optical effects in visible light that occur in some species of gems. Phenomenal gems are often fashioned into cabochons or tablets to display the phenomena. The technical talk covers the following :

- 1) Asterism - Star effect as in Rubies and Sapphires
- 2) Chatoyancy - Cat's eye effect as in Alexandrite Chrysoberyl
- 3) Colour change - Distinct difference in gem's body colour under incandescent light and daylight as in Rubies and Sapphires
- 4) Play of colour - Flashes of spectral colours as in Opals
- 5) Orient - Iridescence found on the surface of pearls
- 6) Labradorescence - Broad colour flash across the surface of Labradorite
- 7) Adularescence - Billowy light as in Moonstone
- 8) Aventurescence - Coloured spangling or glittering effect as in Aventurine Quartz.

PHENOMENAL GEMS - MARILYNA LAU



Marilyna presenting her talk on phenomenal gems.



Part of the participants in the lecture hall.



Elaborating a point on asterism on a star ruby.



Prof Dr Lee, President of GSM presenting a souvenir to Marilyn Lau.



Prof Dr Lee chatting with Prof Emeritus H.D. Tjia and his wife during tea break. Prof Tjia was in Universiti Malaya, Universiti Kebangsaan Malaysia and Lestari and consulting for Petronas.

Ceramah Teknik (Technical Talk)

LATE QUATERNARY CLIMATIC CHANGES IN SEMI-ARID ALLUVIAL PLAINS, WESTERN INDIA

17 July 2006

Geology Department

University of Malaya

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

DR RACHNA RAJ

Department of Geology, Faculty of Science

M.S. University of Baroda, India

naveenrachna@gmail.com

Report

Dr Rachna Raj gave a talk on the above subject to a captivating audience of about 30 people on the 17th July 2006 at the Geology Lecture Hall in the Geology Department at the University of Malaya. Dr Rachna obtained her B.Sc. and M.Sc. in geology from the Lucknow University with a First Division and went on to take a Diploma in Management Science in Computer at the NIIT, Baroda which she also obtained a First Division. She obtained her Ph.D in Geomorphology at the M.S. University of Baroda.

Dr Rachna has a string of professional recognitions as well as published many papers on the national and the international level. Her professional recognition includes the Lakshmeshwar Rama Rao Birth Centenary Award for the year 1998 from the Geological Society of India, Bangalore, the Fellow Geological Society of India, Bangalore, the CSIR Senior Research Fellowship Award and the Young Scientist for the year 2000 and 2004 from the Department of Science and Technology. Her papers have been published in the international publication of *Quaternary International*, *Geomorphology*, *Journal of Quaternary Science and Radiocarbon Journal*. On the national level her publications have appeared in the *Journal of the Geological Society of India*, *Curriculum Science*, *Bulletin of the Indian Geologists Association*, *Gondwana Geological Society*, *SERC Research Highlights*, *Man and Environment* and *Journal of Earth System Science*.

Lau YinLeong

Abstract

The semi-arid alluvial plains of Western India has preserved records of diverse environment of deposition in the sediments exposed in the various river basin, lakes and ponds. The exposed fluvial sequences in various river basins suggest deposition under a regime that broadly followed global climatic changes. The difference found in the deposition style and sediment architecture is due to responses to the climatic fluctuations which were driven by the SW monsoon. In the river basins the fluvial facies are well developed whereas these are overlain by thick lacustrine clay facies in lakes and ponds. In the estuarine zone the fluvial facies are overlain by tidal clays. The base of the exposed fluvial sequence has been dated to ~ 90ka. There was a period of pedogenesis between 70 to 50 ka. Fluvial activity dominated between 50 to 30 ka and the climate was dominantly semi-arid. Stratified silts and sands represent arid climate during the Last Glacial Maximum. Early Holocene was the period of warm and humid climate which continued up to the Middle Holocene. The climate became drier during the Late Holocene. Early Holocene sediment exposures are lacking but the Middle and the Late Holocene are represented by estuarine sediments in coastal areas and fluvial in the upper reaches of the rivers. Palynological studies of the lacustrine sediments indicate restricted water, low salinity paludal environment. Similar fluvial records in response to climatic changes has also been recorded from other parts of India.

**LATE QUATERNARY CLIMATIC CHANGES IN SEMI-ARID
ALLUVIAL PLAINS, WESTERN INDIA - DR RACHNA RAJ**



Dr Rachna Raj presenting her talk.



Part of the participants



*Prof Dr Lee, President of GSM presenting a
souvenir to Dr Rachna.*

Ceramah Teknik (Technical Talk)

AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS STUDENT CHAPTER UNIVERSITY OF MALAYA

in association with

KELAB GEOLOGI UNIVERSITI MALAYA

CAREER AND TECHNICAL TALK: FRONTIER OF GEOLOGISTS

**26th AUGUST 2006
Geology Department
University of Malaya**

On August 26th, American Association of Petroleum Geologists (AAPG) Student Chapter University of Malaya organized a Career and Technical Talk with the theme “Frontier of Geologists”. This premier event was held in association with Kelab Geologi Universiti Malaya (KAGUM) at the Geology Lecture Hall. More than 60 students, including post-graduate students from the Department of Geology, University of Malaya and 7 students from Universiti Kebangsaan Malaysia took part in this event, with talks given by representatives from Baker Hughes, PETRONAS, Schlumberger, Shell and Jabatan Mineral dan Geosains Malaysia.

This event is the first of many activities planned for the current academic year by AAPG Student Chapter of UM. Registrations started as early as 8.00 a.m. and each participant was given souvenirs during the registration. In her keynote address, Professor Dr. Wan Hasiah Abdullah, the Head of Geology Department, congratulated the AAPG Student Chapter’s members for successfully organizing the event and officially opened the Career and Technical Talk at exactly 9.00 a.m.

The morning session was started by Mr. Adriaan Bal, a representative from Baker Hughes, who gave two talks – Career with Baker Hughes and New Advance in Borehole Logging and Imaging. This was followed by presentation from Mr. Md. Yazid Mansor (PETRONAS Carigali) entitled Career with PETRONAS and Life on Platform. This was followed by a morning tea break during which students engaged the speakers in discussion.

The morning session resumed at 11.15 a.m with presentations by three representatives of Schlumberger. The first talk entitled Career with Schlumberger was given by Mr. Gareth Archard who revealed the inside scoop of Schlumberger. Next Mr. Denis Sweeney presented his interesting and knowledgeable talk on 3D, 4D and 4C Seismic. Mr. Pamir Bursin ended the morning session presenting his slide shows on New Technology for Exploration and Production. The talk halted at 1.00 p.m. for the participants, speakers and lecturers to enjoy our special menu lunch.

Ceramah Teknik (Technical Talk)

Mr. Govan Gangatharan from Sarawak Shell Berhad who is also an alumnus of University of Malaya, started the final session at 2.00 p.m. with his talk called Thinking Outside of the Box: South Furious Central South Static Modelling. A stimulating presentation on Shell Gourami Business Challenge followed which was presented by Ms. Vimi Venugopal. This presentation really stood out and many participants seemed to be interested with the selected topic. The event concluded with a talk from Jabatan Mineral and Geosains Malaysia officer, Mrs. Umami Daeimah Hussin, who gave a noteworthy presentation on Career with Mineral and Geoscience Department. The event ended with participants enjoying the afternoon tea served with traditional Malay *kuih*.

Overall, the event was a success and the AAPG Student Chapter University of Malaya would like to express their deepest gratitude to all members, non-members, participants and lecturers, especially Professor Denis Tan Ngoh Kiat, the AAPG Student Chapter's advisor, who had willingly helped us to make this event happen, with a profound thanks to the Geological Society of Malaysia for sponsoring the food and beverages.

We would also like to acknowledge the staff members from PETRONAS Carigali, Schlumberger, Shell, Jabatan Mineral dan Geosains Malaysia and Baker Hughes, who had keenly cooperated with us to make this event a success. Also, an exceptional appreciation goes to all speakers who had gladly spent their time to share with the students, especially from the Department of Geology, some valuable knowledge and experience. We are looking forward in the coming months to organize other events that would be beneficial and contribute to increasing the knowledge of the students. We encourage all students pursuing their degree in Geology to sign up as AAPG Student members.

Aidil Hannan bin Adnan

Secretary

American Association of Petroleum Geologist

Student Chapter

University of Malaya

CAREER AND TECHNICAL TALK: FRONTIER OF GEOLOGISTS



Prof Dr Wan Hasiah, Head of Geology Dept receiving a token of appreciation from the AAPG Student Chapter President, Lee Seng Keong.



Students chatting with Denis Sweeney of Schlumberger.



Prof Denis Tan (AAPG Student Chapter Advisor) and Prof Dr Wan Hasiah, Head of Geology Dept posing for the camera.



Mr. Gareth Archard of Schlumberger presenting his slide shows.



Participants taking keen interest in each talk presented.



Adriaan Bal of Baker Hughes receiving a token of appreciation from Lee Seng Keong, AAPG Student Chapter President.

BERITA-BERITA PERSATUAN (News of the Society)

Keahlian (Membership)

The following applications for student membership from Program Geologi, Universiti Kebangsaan, Malaysia, 43600 Bangi were approved :

1. Siti Fatimah Sarah bt. Wan Sagar,
2. Leonard anak Nicholas Boyok Pura,
3. Sinanawati Marto
4. Aspariza bt. Abdul Rahim
5. Amie Norsyazan bt. Amir
6. Lim Jen Juen
7. Nor Suriyani bt. Ramli
8. Azrelawaty bt. Azami
9. Siti Fatimah bt. Jabbar
10. Sarah Nafisah bt. Mohamad Saad
11. Supiah bt. Mukhtar
12. Norshida bt. Mohsin
13. Nurul Fizziyana bt. Ismail
14. Faizatul Ahya bt. Ismail
15. Nur Rashidah bt. Subri
16. Cheng Yee Leng
17. Nur Qahirah bt. Abdul Rahman
18. Chong Pei Ching
19. Aslinda bt. Azman
20. Ser Kong Aik
21. Nor Khairunnisa bt. Talib
22. Kelvin Yiow Khang Woei
23. Chong Yee Liew
24. Mohd Irwan Abu Samah
25. Rosmawati bt. Hamzah
26. Nurul Amirah bt. Abd. Jamil
27. Nazran b. Harun
28. Nurul Fairuz Diyana bt. Bahrudin
29. Nur Najmi bt. Muhammad Khatib
30. Siti Sarah bt. Yahya
31. Nor Fadilah bt. Abdullah
32. Teoh Hooi Ching
33. Syuri Hidayah bt. Sangaji
34. Tan Siew Chee
35. Lindsay C. Kibat
36. Nadia Suzanna bt. Mustaffa Shukri
37. Deliza Uli
38. Hidayah bt. Che Zair
39. Hanzeh b. Ginsos
40. Delphine J. David
41. Nazirrahmat b. Sulaiman
42. Hamzah b. Hussin
43. Zulqarnain b. Ibrahim
44. Kenny Lau You Kang
45. Ong Bok Yao
46. Ling Kuok Hsu
47. Daphine Yap Yen Yee
48. Lee Kee Soon
49. Oh HweeTheng
50. Chaw Li Min
51. Nurukl Baizura bt. Mohd Yunus
52. Khairil Azhar b. Ghazali
53. Ting King King
54. Nadhirah bt. Abdul Rahman
55. Nadhirah bt Ahmad
56. Hoh Foong Dar
57. Nur Syuhada bt Mohd Pauzi
58. Nurul Ain bt Mohd Sadau
59. Amhad Ansar b. Mohamad
60. Siti Nawwar bt Zainudin
61. Natrah bt Jamil
62. Amir Mizwan n Mohd Akhir
63. Nazariah bt Jamalluddin
64. Hii Sieng Ching
65. Mohd Aizat b Kamaruddin
66. Agnetha Maripa
67. Fauziah Hanis bt Hood
68. Zulhaida bt Zulkepli
69. Sheelajini Paramjothy
70. Lydia bt Arbi
71. Amhad Afiq b. Ahmad Tajuddin
72. Norhifzan bt Ishak
73. Amelia bt Abdul Razak
74. Noor Hazwani bt Abdul Rahim
75. Ishlahuda Hani bt Sahak
76. Bernardine Banessa anak Mikeng
77. Shalrul Ezani b Mohd Amin
78. Lester Vine
79. Mohd Muzamil b. Mohd Hashim
80. Noor Muhammad b Ridzuan

BERITA-BERITA PERSATUAN (News of the Society)**Pertukaran Alamat (Change of Address)**

1. Donald Sim, Woodside Plaza, 240 St Georges Terrace, Perth, Western Australia 6000
2. Cheong Khai Wing, 120, Jalan BK5B/1, Bandar Kinrara, 47100 Puchong
3. Masatoshi Sone, Department of Geology, Niigata University, Niigata 950-2181, Japan
4. Ruben Raj a/I I. Susai, Paradigm Geophysical S/B., Level 13, Tower 1, MNI Twins, 11, Jalan Pinang, 50450 Kuala Lumpur
5. Zuhar Zahir Tuan Harith, Universiti Teknologi Petronas, Bandar Seri Iskandar, 31750 Tronoh
6. Lim Chee Kheong, ENSR/AECOM, 901, Level 9, Uptown 1, 1, Jalan SS21/58, Damansara Uptown, 47400 Petaling Jaya
7. Eric Seah Peng Kiang, 145 Jalan Limau Purut, Taman Bangsar, 59000 Kuala Lumpur

Current Address Wanted

1. Takeshi Sagae
2. Colin H. Ford
3. Noor Farahida Ahmad Sharif
4. Juhaiza Jaffar
5. Abdelmoniem A.M. Masoud

Pertambahan Baharu Perpustakaan (New Library Additions)

1. AAPG Explorer, July & August 2006
2. Episodes, vol. 29, no. 2, 2006
3. Geological Survey of Japan, Bulletin vol. 57, no. ½, 2006
4. Oklahoma Geology Notes, vol. 64:1-4, 2004
5. Resource vol. 14, no. 1, 2006
6. Geological Survey of New South Wales, Quarterly Notes, no. 121, 2006
7. United States Geological Survey, Professional paper nos. 1712 and 1722, 2006
8. AAPG Bulletin vol. 90, nos. 7 & 8, 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)

Decline of a great Department of Petroleum Geoscience Professor Emeritus Dr Charles S. Hutchison

The Universiti Brunei Darussalam (UBD) established a department of Petroleum Geoscience in 1993 within its Science Faculty. Teaching began in 1994 with 11 students from the ASEAN region and the numbers grew over the years to exceed 20. There was no undergraduate department. Students were required to have a geology degree from elsewhere. The majority also had working experience. The one-year study (67% coursework, 33% research thesis) at UBD led to a Masters degree in Petroleum Geoscience. The department later also offered a research Ph.D. degree.

The department was made possible by very generous financial support and geological data co-operation with Brunei Shell Petroleum Company (BSP). At the inaugural stages, the Geology Department of the University of Aberdeen played an advisory role. A major factor in the popularity of the one-year degree course was that the Government of Brunei Darussalam annually offered scholarships to successful candidates from all ASEAN countries.

I have been connected with the department since its beginning and visited Bandar Sri Begawan annually to give my course on the geology and tectonics of Southeast Asia. My close association with the department has prematurely come to an end because the last two academic staff – Joe Lambiase and John Warren – are leaving towards the end of this year. Accordingly, there will be no new student intake. The department will continue to exist on paper only, with no academic staff and no students. Its future remains uncertain. What has brought this situation to come about?

- BSP last year terminated its support of the department.
- Beginning this academic year the Brunei Government stopped giving scholarships to ASEAN students.

There has been no explanation for the termination of the government scholarships. It was done suddenly and resulted in a severe reduction of students this year to only 10 taking up the Petroleum geoscience option. During my many visits to UBD, I regularly went to BSP in Seria on Friday mornings. Fridays and Sundays form the weekend in Brunei and Saturday is a normal working day. However, this practice is not followed by BSP, that instead offers a long lunchtime on Fridays and takes Saturdays off. My visits to BSP were to give talks or attend discussions by Ph.D. students of the UBD department.

I commonly heard from staff at BSP that 10 years were considered long enough to support the UBD department and that it should now be capable of being independent. However, I also heard it expressed that over this 10-year period, the department had remained fully expatriate. To my mind, this was an unfair criticism because the UBD department had produced one Brunei Ph.D. graduate who joined BSP for a more rewarding career than if he had joined the university.

During the years of BSP support, academic staff of the geoscience department enjoyed a 70% top-up over their UBD salaries. As you might imagine, this made them unpopular with ordinary human beings. The rationale was that this would allow the department to recruit worldwide, and to even acquire staff with oil company experience, and of course, there is no income tax in Brunei.

The quality of instruction resulting from this policy resulted in graduates having no difficulty in finding employment. I know of some who now work for Esso, Shell and Murphy Oil in Malaysia. Most, of course, joined oil companies in their home countries such as Brunei, Thailand, Myanmar, Indonesia, Vietnam and the Philippines. The M.Sc degree in Petroleum Geoscience at UBD has therefore been a great success and we must hope that the suspension is not permanent.

Memories of Negara Brunei Darussalam

Although officially a 'dry' country, overseas visitors are allowed a very liberal 2 litres of alcohol upon entry. On Sundays I used to drive to Muara and watch the yachts sailing out from the Royal Yacht Club. If you brought your own beer, the club would serve empty chilled beer glasses. The yachts commonly sailed to Labuan to bring back their liberal allowance. Visiting membership of the club was available to me through my membership of the Royal Selangor Club.

I regularly stayed at the Riverview Hotel in Gadong and UBD would give me a rental car for the duration of my stay. Proton cars are virtually unknown in Brunei, except for those that drive across the border from Sarawak. Petrol is cheap, so it is not a requirement to fill up the tank before returning the vehicle at the airport.

BERITA-BERITA LAIN (Other News)

Before the establishment of the petroleum geoscience department, while I was employed by E.S.R.I. at the University of South Carolina, I spent two weeks with ARCO staff studying the geology of Negara Brunei Darussalam with field assistance from geologists of the Brunei Petroleum Unit. In particular, I was given much help by Mr. Jeffri, whose father was the ambassador to Bangkok. Many of the outcrops we studied were in newly constructed building sites that had cut into hills. Jeffri explained why there was a 'maturing period' of 6 months between preparing a site and the commencement of building. This was to ensure that all 'kramat' had been satisfied by a well-qualified 'bomoh'. Only then could building begin. If the bomoh employed was not of good quality, the resulting house would be haunted and abandoned. Bomohs are still in much demand in Brunei, especially when a hill has been leveled for building.

Memories of the Petroleum Geoscience Department

In the early days, my visits overlapped with those of Dick Murphy. I taught the geology and tectonics of South-East Asia, and he followed with a summary of the oil basins. Later on, Dick stopped coming to Brunei. The former registrar of the University of Malaya, Lim Chung Tat, was advisor to the registrar at UBD during my early visits. Professor Joe Lambiase has been head of the department since its inception. Other early staff were Paul Crevello, who now works in Kuala Lumpur, and Chris Morley, who now works in Bangkok.

The Department of Petroleum Geoscience is the only one in the region actually built upon an oil-bearing delta. I have even visited an oil seep within the grounds of the Jerudong Prison. Fieldwork was always an important part of the syllabus. The University of Malaya is handicapped in this respect and Petronas University in Tronoh is equally handicapped.

It is very sad to witness the premature decline of the highly successful department of petroleum geoscience at the University Brunei Darussalam and it is my fervent hope that it can be revitalized with minimum delay while it continues to enjoy its outstanding reputation throughout South-East Asia.



The last class of M.Sc. students in Petroleum Geoscience at the Universiti Brunei Darussalam, November 2005 with Professor Dr Charles Hutchison. The students were from Thailand, Indonesia and Brunei.

BERITA-BERITA LAIN (Other News)

Up Coming Events

Forthcoming activities

1. 11-12 September 2006: Upstream Oil & Gas Congress 2006, Bangkok, Thailand. Contact: Helen Stokoe, Tel: 603 27236600; Fax: 603 27236699; Email: tanp@marcusevanskl.com.
Event website: www.upstream-oilgas.com
2. 9-13 October 2006: International Association of Hydrogeologists (34th International Congress), Beijing, China. Contact: Email: nizengshi@tom.com
3. 31 October-3 November 2007: Oil and Gas Technology Indonesia 2007: The 6th International Oil and Gas Exploration, Production and Refining Exhibition. Contact: Tel: 62 21 3162001; Fax: 62 21 3161983/4; Email: edy@pamerindo.com
4. 5-8 November 2006: 2006 AAPG International Conference and Exhibition: Reunite Gondwana – Realize the Potential, Perth, Australia. Contact: Tel: 1 781 821 6732; Fax: 1 781 821 6710; website: www.aapg.org/perth/.
5. 8-10 November 2006: Asian Rock Mechanics Symposium, “Rock Mechanics in Underground Construction” (4th International), Singapore. Contact: ARMS-4 Secretariat, Meeting Matters International, 5 Toh Tuck Link, Singapore 596224; Tel: +65 64665775; Fax: +65 64677667; Email: info@arms2006.org; Website: www.arms2006.org.
6. 3-5 December 2006: 2nd International Conference on PROBLEMATIC SOILS – call for papers. Contact: Tel: 065 67332922; Fax: 065 62353530; Email: cipremie@singnet.com.sg
7. 5-8 December 2006: OSEA 2006: The 16th International Oil & Gas Industry Exhibition & Conference, Singapore. Contact: Fax: 065 67326776; Email: events@sesallworld.com
8. 11-15 December 2006: THE GEOTECHNIQUE WEEK (deep foundations cum Piletalk, geosynthetics, soil nailing and anchors, slope stability, landslides and geotechnical engineering) – call for papers. Contact: Tel: 065 67332922; Fax: 065 62353530; Email: cipremie@singnet.com.sg
9. 3-8 June 2007: Landslides and Society (1st North American Conference), Vail, Colorado, USA. Contact: Dr. Keith Turner, Email: kturner@mines.edu; website: www.mines.edu/academic/geology/landslidevail2007.
10. 13-15 June 2007: OGA 2007: The 11th Asian Oil, Gas & Petrochemical Engineering Exhibition. Contact: Tel: 603 40410311; Fax: 603 40437241; Email: enquiry@mesallworld.com
11. 10-13 June 2007: Rapid Excavation and Tunneling Conference RETC 2007, Toronto, Canada. Contact: Tara Davis, SME, 8307 Shaffer Parkway, P.O. Box 277002, Littleton, Co. 80127, USA. Tel: 1 303 973 9550; Fax: 1 303 973 3845; Email: davis@smenet.org; website: www.smenet.org.
12. July 2007: Rock Mechanics (11th Congress of the International Society of Rock Mechanics), Lisbon, Portugal. Contact: Sociedade Portuguesa de Geotecnia, LNEC, Av. Do Brasil, 101, 1700-066 Lisboa, Portugal; Tel: 351 218443321; Fax: 351 218443021; Email: spg@inec.pt; Website: www.isrm2007.org.

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The late Professor Neville Haile and Mrs Maureen Haile, Dr. E. V. Gangadharam, Dr. C. S. Hutchison and Dr. K. R. Chakraborty at a farewell retirement staff party for Neville Seymour Haile at the staff centre, Petaling Jaya, in 1978

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**AAPG
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**Career & Technical Talk
- Frontier of Geologists**

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