

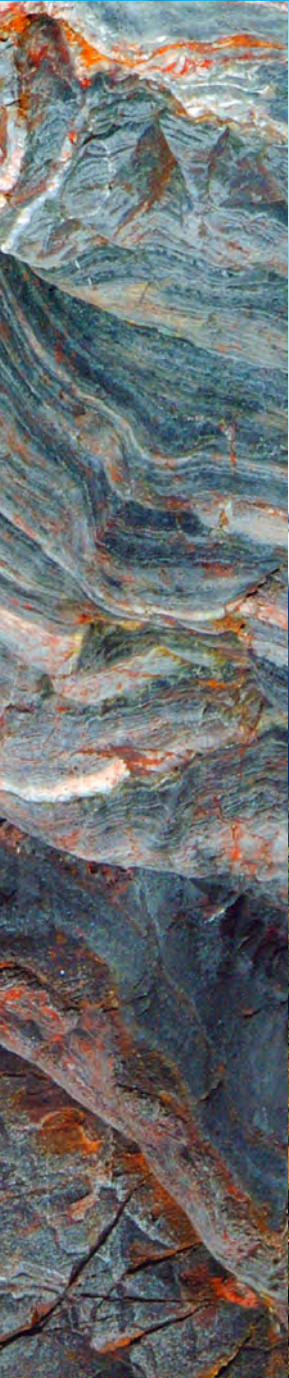


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CATATAN GEOLOGI GEOLOGICAL NOTES

Penemuan ammonoid *Paraceratites trinodosus* berusia Trias Tengah di Kg. Mela, Lipis, Pahang Darul Makmur

AHMAD ROSLI OTHMAN^{1,2} & MOHD SHAFEEA LEMAN²

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Abstract — Fosil ammonoid *Paraceratites trinodosus* (Mojsisovics) telah ditemui pada satu singkapan kecil batuan enapan marin di Kg. Mela, Jerantut, Pahang. Ammonoid ini dijumpai dalam syal hitam berkarbon kepunyaan Formasi Semantan. Spesies yang sama pernah dilaporkan di Sg. Tua, Cegar Perah dan Mentakab. Spesies ini diketahui umum sebagai fosil indek dan merupakan penanda zon bagi Subzon *Trinodosus* dalam Zon *Paraceratites* yang menandakan usia Subtahap Illyrian, Anisian Atas, Trias Tengah. Fosil ini mempunyai nilai yang tinggi dalam mengenali strata batuan Trias di Semenanjung Malaysia.

PENGENALAN

Ammonoid memainkan peranan penting dalam kajian biostratigrafi. Terdapat beberapa spesiesnya dirujuk sebagai fosil indek dan jika wujud dalam sesuatu strata batuan, ia akan dikaitkan dengan jangka masa tertentu dalam skala masa geologi. Fosil indek memainkan peranan yang penting dalam penentuan usia dan pengezonan biostratigrafi terutama pada batuan Paleozoik Atas dan Mesozoik. Ammonoid tidak banyak ditemui dalam batuan berusia Karbon hingga Kapur di Malaysia.

Kajian ini melaporkan penemuan fosil ammonoid berusia Anisian Atas yang juga merupakan fosil indek pada satu singkapan batuan kecil pada satu cerun potongan jalan raya yang menghubungkan Bandar Jerantut dan Bandar Lipis. Kawasan penemuan berada dalam Kg. Mela dalam Daerah Lipis, Pahang dan berkedudukan latitud 4°4.800'U dan longitud 102°16.344'T iaitu kira-kira 37 km dari timur Bandar Lipis (Rajah 1). Ammonoid ini ditemui dalam satu lapisan syal hitam berkarbon kepunyaan Formasi Semantan. Tidak ditemui sebarang fosil lain seperti bivalvia dan gastropod dalam batuan tersebut.

KAJIAN TERDAHULU

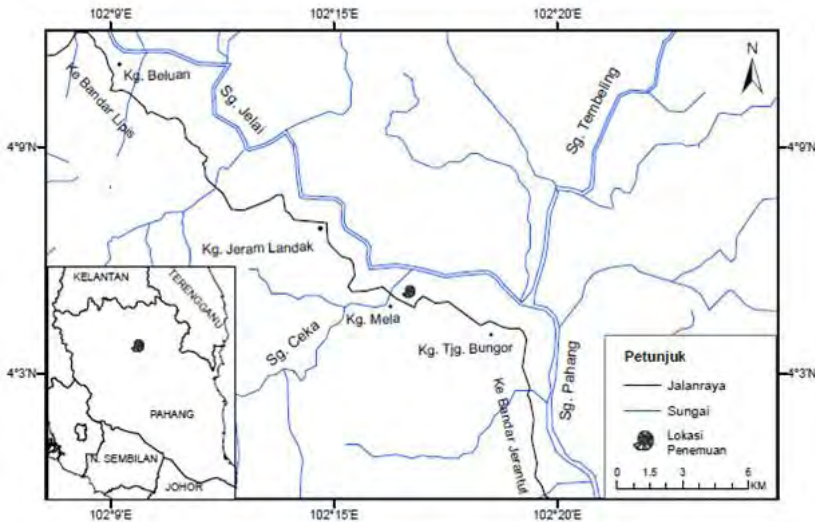
Ammonoid *Paraceratites trinodosus* telah dilaporkan penemuannya di beberapa kawasan di bahagian tengah Negeri Pahang. Kummel (1960) dan Savage (1950) merekodkan penemuan spesies ini di Sungai Tua dalam kawasan Estate Budu, Benta bersama ammonoid *Sturia sansovinii* Mojsisovics, *Acrochordiceras* sp. indet. dan *Ptychites* sp. indet. Fosil-fosil ammonoid ini juga ditemui dalam syal hitam berkarbon. Menurut Kummel (1960), fauna ini berusia Anisian Atas dan mencirikan Zon *trinodosus* serta bertaburan meluas dalam rantau Tethys.

Kemudian pada tahun 1964, Sato melaporkan penemuan *Paraceratites cf. trinodosus* di kawasan Mentakab, Temerloh bersama ammonoid *Acrochordiceras?* sp. dan *Arpadites cf. cinensis*. Fauna ini juga diletakkan dalam Zon *trinodosus* yang berusia Anisian. Kobayashi *et al.* (1966) pula merekodkan penemuan *Paraceratites cf. trinodosus* berhampiran lapisan Batupasir Myophoria (Newton, 1900) di bahagian utara kawasan Cegar Perah, Lipis.

KEPENTINGAN STRATIGRAFI

Secara biostratigrafi, spesies ini diketahui umum sebagai fosil indek dan merupakan penanda zon bagi Subzon *Trinodosus* dalam Zon *Paraceratites*. Secara kronologi, ammonoid *Paraceratites trinodosus* adalah merupakan fosil indek bagi usia Subtahap Illyrian, tahap Anisian Atas (Rajah 2). Penemuan fosil ini juga memberikan taksiran bahawa sebahagian batuan Formasi Semantan adalah berusia Anisian, Trias Tengah. Pengenapan sedimen marin Formasi Semantan telah bermula pada Anisian Atas lagi dan berterusan sehingga Ladinian Atas. Proses pengenapan sedimen berakhir selepas perlanggaran antara blok-blok Eastmal/Indosinia dengan blok Sibumasu yang telah menutup lautan Paleo-Tethys pada Trias Lewat (Hutchison, 2007).

Paraceratites trinodosus banyak ditemui di beberapa negara seperti Itali, Himalaya, Bosnia, Greece, Hungary (Mietto & Mafrin, 1995) dan juga di Jepun (Yabe & Shimizu, 1927; Kummel, 1960). Spesies ini adalah salah satu dari tujuh spesies *Paraceratites* yang biasa terdapat dalam rantau Tethys (Monnet *et al.*, 2008). Spesies-spesies *Paraceratites* yang lain dan biasa ditemui dalam rantau Tethys termasuklah *Paraceratites donadonii* Venzo & Pelosio, *Ceratites elegans* Mojsisovics, *Ceratites bremanus* Mojsisovics, *Ceratites*



Rajah 1: Rajah menunjuk lokasi penemuan fosil ammonoid *Paraceratites trinodosus*.

rothi Mojsisovics, *Ceratites cimaganus* Mojsisovics dan *Ceratites binodosus* Hauer. Dengan penemuan ammonoid ini dapatlah ditaksirkan bahawa pengenaan sedimen marin laut bagi Formasi Semantan telah bermula sejak usia Anisian Awal lagi. Sehingga kini, pengenaan sedimen Formasi Semantan telah direkodkan sehingga usia Ladinian Awal berdasarkan penemuan ammonoid di Yong Peng, Johor (Sato, 1964) dan di Aring, Kelantan (Ahmad Rosli & Mohd Shafeea, 2008).

SISTEMATIK PALEONTOLOGI

Famili CERATITIDAE Mojsisovics
 Subfamili CERATITINAE Silberling
 Genus *Paraceratites* HYATT

Paraceratites trinodosus (Mojsisovics)

1927 *Paraceratites aff. trinodosus* – Yabe dan Shimizu, plat 11, gambar 10.

1960 *Paraceratites trinodosus* – Kummel, plat 1, gambar 3-6.

1964 *Paraceratites* sp. (dari jenis *trinodosus*) – Sato plat 5, gambar 14 dan 16.

Dua spesimen diperiksa. Satu spesimen dalam bentuk tempelan lengkap dengan umbilikus dan satu lagi dalam bentuk acuan dalaman yang merupakan serpihan sebahagian cengkerang tanpa umbilikus.

Cangkerang berlingkaran secara sederhana involut yang lebar; umbilikus agak terbenam. Permukaan cengkerang dihiasi oleh beberapa rib berjejari yang lurus dari bahagian pinggir umbilikus sehingga pertengahan garis rib yang kemudiannya membengkok menghala bukaan (aperture) cengkerang. Setiap rib mempunyai tiga benjolan (tritubercles) yang dapat dicerap pada bahagian pinggir umbilikus, pinggir ventral dan pada bahagian tengah garis rib. Benjolan pada bahagian pinggir ventral paling dominan. Rib berjejari yang pendek mempunyai hanya satu benjolan pada bahagian pinggir ventral. Ventral adalah rata tanpa lunas (keel).

Usia	Tahap	Subtahap	Skala Piawai Ammonoid Tethys			
			Zon	Subzon		
TRIAS TENGAH	ANISIAN	ATAS	ILLYRIAN	Hungarites	<i>Avisianum</i>	
				Reitzi		
			Paraceratites	<i>Trinodosus*</i>		
		TENGAH	PELSONIAN	Balatonites		<i>Binodosus</i>
						<i>Balatonicus</i>
						<i>Cuccense</i>
	BAWAH	BITHYNIAN	Kocaelia		Subzone 2	
					<i>Ismidicus</i>	
					Subzone 1	
				Osmani		
		AEGEAN	Paracrochordiceras		Belum ada pembahagian	

Rajah 2: Skala piawai ammonoid bagi rantau Tethys yang menunjukkan kedudukan ammonoid *Paraceratites trinodosus* yang bertanda asterik (selepas Mietto & Mafrin, 1995).

Diameter cengkerang bagi spesimen dalam bentuk tempelan adalah kira-kira 5.5 cm manakala diameter umbilikus pula adalah 2.6 cm. Nisbah diameter cengkerang dan umbilikus adalah 2:1. Garis sutera tidak dapat dicerap memandangkan spesimen yang diperiksa terawat dengan buruk.

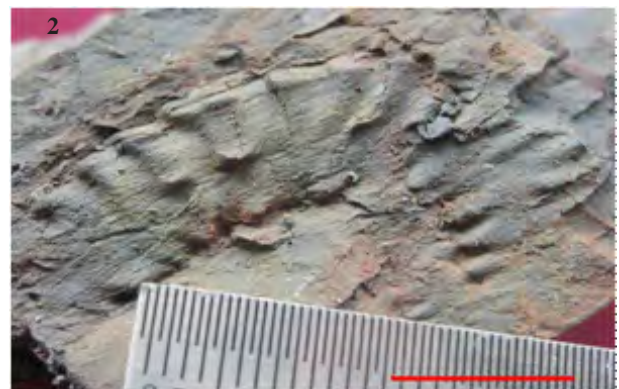
Morfologi spesimen didapati menyamai dengan morfologi ammonid seperti spesimen yang diperihalkan oleh Kummel (1960), Sato (1964) dan Yabe & Shimizu (1927) terutama terdapatnya tiga benjolan (tritubercles) pada rib berjejari dengan benjolan dominan pada bahagian pinggir ventral.

KESIMPULAN

Kajian ini memerihalkan ammonoid Trias *Paraceratites trinodosus* (Mojsisovics) yang ditemui pada satu singkapan kecil batuan kepunyaan Formasi Semantan di Kg. Mela, Lipis, Pahang. Fosil ammonoid ini merupakan fosil indeks dan spesies penanda zon bagi Subzon Trinodosus dari Zon Paraceratites dan mencirikan usia Subtahap Illyrian, Anisian Atas, Trias Tengah. Penemuan ini adalah di lokality terbaru dalam strata batuan Trias Formasi Semantan. Sebelum ini, spesies yang sama pernah dilaporkan di Sg. Tua, Cegar Perah dan Mentakab. Penemuan ini memberikan tafsiran bahawa pengenaan sedimen Formasi Semantan telah bermula sejak usia Anisian lagi.

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3



- Plat 1:** *Paraceratites trinodosus* (Mojsisovics). Bar skala mewakili 1 cm. Lokasi: Kg. Mela, Lipis, Pahang.
- Rajah 1 – Acuan luaran cengkerang bersama umbilikus, pandangan lateral.
- Rajah 2 – Acuan dalaman sebahagian cengkerang tanpa umbilikus, pandangan lateral.
- Rajah 3 – Lakaran *Paraceratites trinodosus* seperti yang dilaporkan dari utara kawasan Cegar Perah oleh Jones *et al.* (1966).

Manuscript received 1 April 2010

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PERTEMUAN PERSATUAN MEETINGS OF THE SOCIETY

CERAMAH TEKNIK TECHNICAL TALK

Hazard and Risk in Planning for Development in England

PROF. DR. BRIAN MARKER
International Union of Geological Sciences (IUGS), UK

1st September 2010, SEADPRI, Universiti Kebangsaan Malaysia

Abstract — Planning policies in England are subject to sustainability appraisal. Major development applications require environmental impact assessment. Most proposals require site investigation. Hazards are material considerations in preparing policies and determining applications. Available Information includes: databases on various hazards; hazard/risk studies of specific sites; and strategic studies of selected areas. To prepare sound planning policies, planners need information on: the nature, extent and significance of hazards; risk implications of policy and development options; and the implications of change. Developers preparing planning applications require information on the site and its immediate context. But authorities often lack resources to collect and evaluate information. There is a need for better information and methods for dealing with risk.

Lim Choun Sian



CERAMAH TEKNIK TECHNICAL TALK

Urban Geology: a UK Perspective

PROF. DR. MARTIN CULSHAW
International Union of Geological Sciences (IUGS), UK

1st September 2010, SEADPRI, Universiti Kebangsaan Malaysia

Abstract — Urban geology is that component of applied geology that deals with the interaction of people with the geological environment at a city scale. The keys to the success of geological investigation and research in urban areas are:

- a. having an understanding of the needs of users (who, mostly, are not geologists),
- b. providing information in a form that is relevant to these users, and
- c. maintaining the information-base in the long term.

Urban geological issues in the UK, and how they were addressed, will be discussed using examples from Wigan (NW England), Bradford (Yorkshire) and Stoke-on-Trent (the Potteries), but particularly from Manchester, NE England and South Wales.

Lim Choun Sian



MALAM GEOLOGI KEJURUTERAAN I 2010

28th July 2010

Department of Geology, University of Malaya, Kuala Lumpur

“MALAM GEOLOGI KEJURUTERAAN 2010” featured 3 speakers, namely Sdr. Rodeano Roslee (UKM/UMS), Sdr. Qalam A’zad Rosle and Sdr. Ng Chak Ngon (Subsurface Engineering).

Sdr. Rodeano discussed various landslide risk management schemes taken mostly from overseas. Since he is still at his early stage in his Ph.D research, we look forward to hearing more tangible results from him on completion of his study.

Sdr. Qalam presented a case study on conservation geology and geo-tourism, namely the unique and picturesque Klang Gates Quartz Ridge located just north of Kuala Lumpur. Rockfall hazards are also discussed.

Sdr Ng CN gave a critical view of why conventional slope stability analysis fails – and hence the consequence of frequent slope failures/landslides. Common basic assumptions on the position and rise and fall of the water table/phreatic surface in a slope are challenged by the speaker.

As usual, the talks were followed by various questions and discussions from the floor.

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



CERAMAH TEKNIK TECHNICAL TALK

Possible Oil Accumulation with Convex-shaped OWC under Abnormally High Pressure Condition; Example from Offshore Sabah, Malaysia

KAZUO NAKAYAMA

Japan Petroleum Exploration Co. Ltd. (JAPEx)

2 August 2010, Department of Geology, University of Malaya

The cap, or seal, of an oil reservoir does not have limitless sealing capacity – exert enough of a pressure differential across the seal and it will begin to leak fluids. The point at which leakage takes place depends on several things – mainly the lithology of the seal rock, but also the nature of the fluid contained within the trap. The behavior of the seal can be modeled using capillary pressure theory, finer grain sizes result in higher sealing capacity. Sealing capacity is expressed in terms of the column height of fluid capable of being trapped without leakage. It can further be expressed using the conceptual “Equivalent Grain Size” – the smaller the EGS, the higher the sealing capacity. Leakage always occurs at the very top of the trap, since this is where the pressure differential across the seal is greatest.

Gas leaks more readily than oil since its buoyancy (the difference in density between it and the oilfield brine underneath it) is much greater, which makes the pressure differential across the seal greater for a given column height. A seal that is capable of supporting a tall oil column would only be capable of supporting a much shorter column of gas.

The nature of the fluid contained in a trap may depend on the sealing capacity of the cap rock. Since oil is more desirable than gas, a seal that leaks gas is actually more desirable than one that does not, since it allows oil to replace the gas that leaks from the top of the trap. A stronger seal would result in a trap containing far more gas, since the gas would prevent oil from entering the trap (if the oil were the later charge) or would displace oil (if gas were the later charge, which is usually the case). If the seal can support a column of fluids greater than the height between the top of the trap and the spill point, then the trap is a “spill point limited” one and would tend to contain gas. If it cannot, then the trap is “capillary limited” and would be more likely to contain oil. One might also have traps that are intermediate – the spill point is below the supportable column height for oil, but above that for gas (oil will spill if enough is put into the trap, but gas will leak through the seal before the trap fills to the spill point).

An interesting observation is that, in offshore Sarawak, there exist nested and adjacent traps where the gas in each trap contains different amounts of CO₂. Dr. Nakayama thinks that this may be due to different sealing capacities for each of the seals – spill point limited traps contain less CO₂, while capillary limited traps contain more CO₂. This can be explained if the hydrocarbon gas charge were earlier and distinct from the CO₂ charge. CO₂ is denser than hydrocarbon gas, so when it is introduced into a spill point limited trap containing hydrocarbon gas, it will not be able to displace the hydrocarbon gas. However, if it is introduced into a capillary limited trap containing hydrocarbon gas, the added pressure would induce some of the resident charge to leak out the top. The resulting mixture would have a taller column height than before, because the mixture, being denser, would have less buoyancy than the original hydrocarbon gas and thus a taller column would be supported by the seal.

Nested or stacked traps are common in areas with layercake stratigraphy, such as offshore Sabah. Where traps are separated by large vertical distances (i.e. large thicknesses of seal rock), or if the intervening seals have high sealing capacity, they operate independently (independent mode), where lower traps have oil-water contacts below the oil-water contacts of the higher traps. In contrast, nested traps with thin (or weak) layers of seal rock in between them operate in “Matryoshka mode” (after the Russian dolls which nest within one another), with a common oil-water contact level. This is due to the capacity of the topmost seal being the limiting one – gas leaking through the lower seals accumulates in the upper levels until the pressure across the seals reach equilibrium.

It should not be possible to have nested traps where the lower traps have oil-water contacts above the oil-water contacts of the upper traps. However, this is exactly what was found in certain nested traps offshore Sabah. Dr. Nakayama thinks that the only way to account for this would be if the lower traps had abnormally high pressures compared to the higher traps. If one uses the depth of the oil water contact encountered in wells drilled into the crest of the structure for volumetric calculations of hydrocarbons in place, then these calculations will result in underestimates, since there will be oil below the observed oil-water contact on the flanks of the structure. Such situations can be recognized by pressure-depth gradients higher than the expected hydrostatic gradient hydrocarbons.

Nur Iskandar Taib

CERAMAH TEKNIK TECHNICAL TALK

Overview of Volcanic-hosted Massive Sulphide (VHMS) in South China and South East Asia

PROF. DR. KHIN ZAW

Centre of Excellence in Ore Deposits (CODES), University of Tasmania,
Hobart, Tasmania 7001, Australia

4th August 2010

Meeting Room, Geology Program, Universiti Kebangsaan Malaysia

The technical talk entitle “Overview of Volcanic-hosted Massive Sulphide (VHMS) in South China and South East Asia” was delivered by Prof. Dr Khin Zaw from University of Tasmania at Geology Program, UKM. It was attended by around 50 audiences, comprising staff and students from UKM, and also member of Society from JMG, UM and the private sector. Before the talk, academic staff had a discussion with Prof Khin Zaw for further collaboration in research and teaching.

Professor Khin Zaw received BSc from Yangon University in 1968, FGA Diploma (Fellowships of Gemmological Association of Great Britain) in 1969, MSc (Economic Geology) from Queen’s University, Kingston, Ontario, Canada in 1976 and PhD from University of Tasmania in 1990. He is a Fellow of the Australian Institute of Mining and Metallurgy and a Fellow of Society of Economic Geologists. He has over 30 years experience working on genetic aspects of mineral deposits in Canada, Australia, New Zealand, China and SE Asia, and has published more than 80 ISI papers.

He currently serves as an Associate Editor of Ore Geology Reviews Journal. He is also an internationally recognized geoscientist for his work on the application of fluid inclusion and isotopic research on ore genesis and currently working as Leader of “Ore Deposits of SE Asia” project and metallogenic relations focusing on exploration implications.

Mohd Rozi Umor



GEOFYSICS TECHNICAL TALKS

The talk was jointly organized by the Geology Department, University of Malaya and the Geological Society of Malaysia. The talk was conducted in the Lecture Hall, Geology Department, University of Malaya, Thursday, 19th August 2010 starting at 6 pm. It was well attended.

Two speakers presented talk on the application of geophysics particularly microgravity in various field. Dr. Jan Mrlina from the Institute of Geophysics, Czech Academy of Sciences, Prague, Czech Republic discuss the application of microgravity in the oil and gas industry. Despite the enormous development in seismic prospection, microgravity still provides important constraints in the investigation of salt structures and basin composition. He touches on 4D Gravity in fluids monitoring in reservoirs with emphasis on chances and limitations. He also discusses the importance of electromagnetic method in the oil and gas industry.

Associate Professor Dr. Samsudin Hj Taib from Department of Geology, University of Malaya. Kuala Lumpur, Malaysia discusses some microgravity case study for engineering geology application in Malaysia.

Samsudin Hj Taib



CERAMAH TEKNIK TECHNICAL TALK

Environmental Aspects of the German Mining Industry

PROF. DR. FRANK OTTO

Universiti Sains Gunaan,(Technische Fachhochschule Georg Agricola zu Bochum), Bochum, Jerman

10 September 2010, Bangunan Geologi, Universiti Kebangsaan Malaysia

Pada 10 hb September 2010 yang lalu Prof. Dr. Frank Otto, Profesor Geomekanik dan Perlombongan, Universiti Sains Gunaan,(Technische Fachhochschule Georg Agricola zu Bochum), Bochum, Jerman telah mengadakan satu ceramah teknik bertajuk “Environmental Aspects of the German Mining Industry” di bilik Mesyuarat Bangunan Geologi, Universiti Kebangsaan Malaysia. Ceramah ini adalah anjuran Program Geologi, UKM dengan kerjasama Persatuan Geologi Malaysia. Seramai 50 orang telah hadir untuk mendengar ceramah ini yang terdiri daripada pelajar Program Geologi, ahli-ahli akademik dan ahli-ahli persatuan daripada pelbagai agensi. Selepas pembentangan ceramah teknik tersebut, mereka telah membuat lawatan ke Muzeum Geologi dan makmal geomekanik. Beliau adalah dalam perjalanan ke Auckland, New Zealand untuk menghadiri Kongres Geologi Kejuruteraan bersama dengan Micheal Stahl, pemenang hadiah jurutera geoteknik muda Jerman.

Mohd Rozi Umor



MALAM GEOLOGI KEJURUTERAAN II 2010

“MALAM GEOLOGI KEJURUTERAAN II 2010” was originally scheduled to feature 2 speakers who were supposed to talk on “Critical Review on Current Engineering Geological Practice in Malaysia”, including good and bad practices. Unfortunately, both speakers “parachuted” out at the 11th hour – whatever happened to the sense of commitment and responsibility??

As the show must go on, 2 replacement speakers stepped in as back-up. They were: Sdr. Ng Chak Ngon (Subsurface Engineering) and Sdr. Tan Boon Kong (Chairman himself).

Sdr. Ng C.N.’s talk was on: “The Practice of Engineering Geology in Malaysia”, based on his personal experience and past practice in this field. Sdr Ng was rather critical of the local universities as well as JMG in as far as local research and practice in Engineering Geology is concerned. He presented some case studies (e.g. major slope failures) where input in geology/engineering geology in the post-failure investigation was rather lacking or fall short of expectations.

Sdr. Tan B.K.’s presentation was also on the same topic, namely: “The Practice of Engineering Geology in Malaysia”, again also based on his personal experience and past practice in this field. It was based on a Special Lecture presented at the Malaysian Geotechnical Conference in 2004, Tan (2004). Additional case studies on Engineering Geology were also extracted from another Special Paper presented in the 16th SEAsian Geotechnical Conference in 2007, Tan (2007). For details, the interested reader can refer to these publications listed below:

a) Tan, B.K. (2004). The Practice of Engineering Geology in Malaysia. Proc. Malaysian Geotechnical Conf. 2004, 16-18 March 2004, IEM, Subang Jaya, Special Lecture, 131-148.

b) Tan, B.K. (2007). A Glimpse of Engineering Geology and Rock Mechanics in Malaysia. 16th SEAsian Geotechnical Conference Commemorative Volume, 8-11 May 2007, Subang Jaya, 147-157.

As usual, the talks were followed by various questions and discussions from the floor, with the discussions/arguments getting a bit heated-up at times. Fortunately/Unfortunately, no one from the local universities and JMG attended the Malam; otherwise, the speaker-audience interactions would have “over-heated”??

The Chairman records his special thanks to Sdr. Ng C.N. for answering the clarion call and cobbling together an interesting and credible presentation in spite of the very short notice, and hence saving the day/show. Like they say: “Think positive, anything is possible. Think negative,”.

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



Soft Launch Petroleum Geology Conference & Exhibition 2011 (PGCE 2011)

On Tuesday of 27th July 2010, the Malaysian Petroleum Club saw the arrival of many oil and gas company representatives. They were more than 40 representatives from various international oil and gas companies (IOC), service providers, societies and NOCs, who were interested to find out more about next year's Petroleum Geology Conference & Exhibition or more affectionately known by its acronym, PGCE 2011.

The guests were ushered in and seated prior to the start of the event at 2.30 pm. The event started with a doa recital and safety briefing followed by the Opening remarks by our Champion, Mr Idris Ibrahim, who is also the Senior General Manager of Petroleum Resource Exploration, Petroleum Management, PETRONAS. He welcomed and thanked everyone for taking the time to attend the event. Mr. Idris also hopes for a larger involvement from all the various companies in ensuring the continuity and success of PGCE. He then proceeded to officially launch PGCE 2011.

After the opening remarks came the briefing of PGCE 2011. It was led by PGCE 2011's Chairman, Mr. Abdul Manaf Mohamad. He began by introducing the Organizing Committee (OC) members and then proceeded to inform the audience of PGCE 2010's statistics. PGCE 2010 was attended by close to 1600 delegates and saw 47 papers and 58 posters presented with 40 exhibitors.

He then moved on to his speech to PGCE 2011. The 31st edition of the annual petroleum geology conference & exhibition is jointly organized by the Geological Society of Malaysia (GSM) and PETRONAS. It will be held at the Kuala Lumpur Convention Centre on the 7th and 8th of March. The theme for PGCE 2011 is "New Plays, New Ways, Innovative Technology". The initial layouts of the conference and exhibition area were shown to the audience.

En. Manaf then announced the 'Call for Papers'. The technical paper submission has been divided into 6 categories and they are: Exploration case studies, New and unconventional play types, Reservoir Characterisation and Modelling, Petroleum system analysis, Geophysical acquisition, processing and imaging and Seismic interpretation and specialized geophysics.

The pre conference events include 2 field trips: (1) Outcrop Observation on Coastal-Deltaic Facies of Nyalau, Lambir & Miri Formations along Bintulu-Miri Road: An Application for Future Exploration in Balingian and Baram Provinces and (2) Fractured Granite & Meta-sediment Outcrops at Pulau Redang, Offshore Terengganu- An Analogue for Fractured Basement in Malay Basin Exploration and a friendly golf tournament. A post conference training course will also be available on the 8th and 9th March 2011.

The second portion of the briefing was taken up by Mr. Aiman Hakimi from the Promotion team. He informed of the various promotional strategies such as engaging PetroEdge as official media partner, utilizing the available social networks such as Facebook and Twitter, distribution of posters and brochures to various oil and gas companies and of course a PGCE 2011's website.

Next, Ms. Fatma Nazihah from the Exhibition team gave the layout of the exhibition floor plan and also all the available booth sizes that are up for grab. She then introduced the official contractor, Innogen Sdn. Bhd. and freight forwarder, R.E Rogers.

The final portion of the briefing session was given by the vice chairman and also person in charge of corporate sponsorship, Mr. Muzli Hussein. He introduced to the audience and potential sponsors the list of items available for sponsorship and the opportunity to be one of the Platinum, Gold, Silver and Bronze sponsors of PGCE 2011.

The presentation ended at 3.30 p.m. and the guests were invited to stay for light refreshments. The OC members took this opportunity to mingle with the guests and explained to them further about PGCE 2011.

W Suraya Alssendra & M Amri B M Diah

**Soft Launch
Petroleum Geology Conference & Exhibition 2011 (PGCE 2011)**



BERITA-BERITA PERSATUAN NEWS OF THE SOCIETY

KEAHLIAN MEMBERSHIP

Ahli Penuh / Full Member

1. Khairul Faizal bin Sepian (No I/C : 840326 – 11 – 5193)
2. Mohd Shah bin Sulaiman (No I/C : 710710 – 01 – 6135)
3. Zainey Konjing (No I/C : 840612 – 12 – 6109)
4. Mohd Hilmi bin Mohamed Khassim (No I/C : 820823 – 03 – 5487)
5. Mohd Rashidi bin Abdul Hamid (No I/C : 620130 – 13 – 5059)
6. Muhammad Nussirwan Adil b Abd Rahman (No I/C : 841102 – 02 – 5329)
7. Carl McKellar Curtis (No Passport : 702146631)
8. Farhana bt Jaafar Azuddin (No I/C : 850603 – 10 – 5356)
9. Nora Aida bt Ramly (No I/C : 840607 – 14 – 6172)
10. Ramli Mohd Osman (No I/C : 581226 – 08 – 5579)

Ahli Pelajar / Student Member

1. Mohd Khairudin bin Muhamed (No I/C : 880119 -03 – 5875)
2. Che Ku Mohd Naqiyuddin Che Ku Besar (No I/C : 880622 – 11 – 5979)
3. Lou Wei Cheong (No I/C : 890131 – 13 – 5907)
4. Mohd Ramziemran bin Abd Rahman (No I/C : 820404 – 02 – 5049)
5. Nor Azyani bt Ajmain (No I/C : 861004 – 14 – 5376)
6. Muhamad Hafiz bin Juhuri (No I/C : 880611 – 23 – 5043)
7. Nur Atiqah bt Anuar (No I/C : 880329 – 11 – 5304)
8. Mohammed Hail Abdul Galil (No Passport : 03S69078)
9. Mohd Zaini bin Mustapha (No I/C : 840302 – 14 – 5777)

Ahli Bersekutu / Associate Member

1. Voon Hian Fah (No I/C : 540103 – 13 – 5133)

PERTUKARAN ALAMAT CHANGE OF ADDRESS

1. Donald Sim, Tately N.V., Plaza Bapindo, Mandin Tower, 21 Floor, Suite 2101, Jl Jenderal Sudirman, Kav 54-55, Jakarta 12190, Indonesia.
2. Ong Hock Kim, Sarawak Shell Bhd., UIA/T/D/FPS, 98100 Lutong, Sarawak



BERITA-BERITA LAIN OTHER NEWS

OBITUARY

RICHARD MURPHY (1929 – 2010)

Dick was born in Missouri in 1929 and grew up in Washington DC with his parents & sister Patte. He joined the US Army as a young man, serving with distinction in Korea and rising to the rank of Lieutenant. The Army funded a Masters Degree in Geology at Wyoming University. Dick subsequently won a highly prestigious Fulbright scholarship which took him to Vienna, Innsbruck and Princeton Universities and he obtained a further Degree in European History. He joined Standard Oil (now known as Esso) in 1958 where his drive, intellect, skills and experience launched what was to be an incredible career as a geologist.

Dick spent 25 years with Esso, in locations including Singapore, Texas, Manila, London, Niger, Nigeria, France, Texas, Austria, Switzerland, Germany and Argentina. He was one of Esso's (in)famous 'Rover Boys', the "geological SAS" of their day, who relished seeking oil in isolated and difficult locations, without – of course – the benefits of modern global communications and other conveniences.

He single-handedly opened Esso's first regional office in Singapore, largely left alone by head office, excepting a single weekly telex to Houston. Dick obtained Esso's successful rights in the Malay Basin, before the establishment of Petronas. He organized 'Last Days of the Raj'-style field trips, involving hundreds of people and horses and months away from home. Dick adored these adventures but his luck finally ran out when Esso dragged him kicking and screaming first to Houston in 1977 and finally to the UK in 1980.

Dick eventually hung up his boots with Esso in 1983 and became an independent consulting geologist. From a tiny office in Surrey, he travelled and worked extensively in Nepal, Bangladesh, Madagascar, Ethiopia, Guinea Bissau, Yemen, Jordan, Hungary and Trinidad on behalf of the World Bank and various oil companies. He was President of the South East Asian Exploration Association (SEAPEX –which he co-founded in 1973) & President of the Geological Society of Malaysia (1973–1974) and actively participated in most of the Society activities. Dick taught a whole generation of geoscientists – over 1400 in the last 25 years - about the geology of SE Asia as creator of the Petroleum Geology of SE Asia course. He never quite got around to retiring and taught on his last course in February this year.

Incredibly, he managed to find time for an equally lively and varied personal life. From trekking and mountaineering expeditions into the Himalayas (into his 60s) running (into his 70s), often with the Hash House Harriers – the self-styled 'Drinkers with a Running Problem' - numerous marathons and rugby, which he played competitively into his 8th decade. He was an accomplished writer and poet, composing beautiful verse which celebrated the people and things he loved and confronted his darker thoughts and fears.

Dick was a loving father to Rachael, Sarah & Troy, and grandfather to Ben, Katy, Evelyn, William, Brianna and Ryan. They are his most important legacy, and his spirit, personality and memory live on through them. They, his friends and neighbours and his beloved partner, Christine Oxborrow, brought him much happiness in his autumn years and comfort in his final illness. Dick was a unique and remarkable man from whom fountains of thoughts, actions and feelings left indelible marks the world. He was born during The Great Depression, saw many terrible and wonderful things during his life and reached old age with a kind, insightful, optimistic and liberal view of the world. He was unencumbered by need to conform to mindless norms or routines. He heard a different drummer and stepped to the music which he heard, however measured or far away. Above all else, Dick was 'himself' – always the same, always unusual, always alive and always adored.

Ian Longley

YESTERDAYS, TODAYS, TOMORROWS

By Richard Murphy

YESTERDAYS

I pace the floor with measured tread
And think of things I never said.
I walk the mirrored halls of time
Where funny-room distortions line
The image-clustered pathways of my mind.
My ears replay the echoed sounds
Reverberating in the caverns that surround
The core of touch and feel that binds
With remnant scents of treasured times
To thread a tapestry of woven rhymes.
I page to finger images gone by,
Thumbing through albums asking why,
Not knowing what the answers were
But knowing what the questions are.

TODAYS

I have not felt sun's heat grow faint
Since last I sought to wear her paint.
Nor do the miles, though few and slow,
Withhold the joy or fail to bring the glow.
And should a stray breath linger on my ear,
One lurid line deleted here,
Does age then have performance-fear
Or do we rest in body near?
Today paces body's pulsing surge
To temper capacity with urge.
What Nature insists to take away
She slyly compensates in your own way.
Tomorrows trade off yesterdays:
Valid at the stroke of twelve, then gone.

TOMORROWS

Tomorrows come today as Time whirls faster on her axis,
And so the fewer tomorrows the more todays.
Tomorrows bear a bondage built on yesterdays
And bear a heavy burden of todays.
As choices made bind soul into a tightening path of self
Does then the soul want freedom from tomorrow?
I dedicate myself to todays.
I embrace the bodied debt of yesterdays.
I welcome the diminishing tomorrows.
To stand, to work, to be, to see;
To love, to fear but not to hate,
To act and enjoy, to write and sing
My off-key song of joyful grace
Willingly I fold myself in time's embrace.

GEOINTRO 2010 – Discovering Earth Science

GeoIntro 2010: Discovering Earth Science was organized by the members of University of Malaya Student Chapter of American Association of Petroleum Geologist (AAPG) on the 24th July 2010. This event was generously sponsored by Talisman Energy Incorporation. The main mission of GeoIntro is to introduce Geology among matriculation and Form 4, 5 as well as Form 6 students and we hope to instill the students' interest towards Geology by introducing the learning environment of this course and giving information about the future career prospective of Geologist especially in oil and gas industries.

The event started at 9.00 am and ended at 3.30 pm. There are a total of 122 participants and the participating schools are Centre for Foundation Studies in Science of University of Malaya, Universiti Kebangsaan Malaysia (UKM), Kolej Islam Sultan Alam Shah (KISAS), SM Sains Alam Shah and Catholic High School.

The event started off with the opening speech given by the President of University of Malaya Student Chapter of AAPG, Miss Teng Yu He, who is also the Director for GeoIntro 2010. She thanked Talisman Energy for the sponsorship and the participants for their support to this event. She briefly introduce Geology and explained about the purpose of GeoIntro 2010: Discovering Earth Science, as to cultivate an interest among students to pursue a study or a career in geology. Finally, she hopes that all participants would enjoy and be greatly benefited from this event. Next, the advisor of the University of Malaya Student Chapter of AAPG, Dr. Md Aminul Islam, gave his inspiring speech. Dr. Aminul gave a very warm welcoming to the audience and also a brief introduction about Earth Science.

After this, a short multimedia slideshow was presented and followed by a speech given by the first speaker of the event, Prof. Dr. Lee Chai Peng. Dr. Lee presented a slideshow and explained the importance of geology in different aspects. He introduces the reasons of studying rocks and how is it related to our daily life, eg. volcanism, earthquake, earth resources, tsunami etc.

After the morning break, the participants were divided into groups, each monitored by the committee in charged, and proceed to the Tour and Exhibition and Movie session. There are total of 4 stations for the Tour and Exhibition session, where introduction and explanation on different field of interest in geology were given. The first station is located at the museum of Department of Geology and gives general information about geology. The next station was located at Minerals and Petrology Lab where introduction to different kinds of rocks and elements were presented with the aids of hand specimens. Introduction to fossils and microfossils were given at the third station, which was located at the Paleontology and Stratigraphy Lab. Students were allowed to observe the microfossils under binocular microscopes during the exhibition. The last station was located in the Mapping Lab where introduction to maps, aerial photograph and general structural geology was given. On the other hand, the movie session was carried out in the lecture hall of Department of Geology.

After lunch break, the event continued with a talk by Mr. Supian Suntek, the Senior Geologist from Talisman Energy. Mr. Supian started his speech by introducing some background of his studies and career to the audience. Later, he presented a slideshow about the world of oil and gas exploration and geological studies to give the audience a better understanding about geology and Talisman Energy. He also explained the various usage of petroleum and the importance of oil and gas as one of the Earth's natural resources. Lastly, he explained about the future career prospects as a geologist and shared some of his working experience. The talk ended with the pop-quiz session.

GeoIntro 2010: Discovering Earth Science was successfully ended with group photos session.



FIRST CIRCULAR

PERSATUAN GEOLOGI MALAYSIA
GEOLOGICAL SOCIETY OF MALAYSIA



**NATIONAL
GEOSCIENCE
CONFERENCE 2011**

The Puteri Pacific Johor Bahru &
Persada International Convention Centre
11 – 12 June 2011

*Geoscientists and Ethics
of a Sustainable Society*

Co-organiser
Jabatan Mineral & Geosains Malaysia
Universiti Teknologi Malaysia



Collaborators
Universiti Teknologi Malaysia (UTM)
Institute of Geology Malaysia (IGM)
Universiti Kebangsaan Malaysia (UKM)
Universiti Malaysia (UM)
Universiti Malaysia Sabah (UMS)
Universiti Teknologi Petronas (UTP)

CALL FOR PAPERS

Deadlines

Submission of abstract: 15th April 2011
Submission of full manuscript: 31st May 2011
Early Registration: 31st May 2011

Registration

All intending participants are advised to register early to facilitate the planning of the Conference. Registration fees will cover conference material, lunch and refreshment. Payment by crossed cheque or bank draft is acceptable and should be made payable to the "Geological Society of Malaysia". Payment can also be made by banking in directly to the Geological Society of Malaysia, Standard Chartered Bank, current account no. 794 1054 02263. Please fax or email the bank-in-advise slip to the Society for verification.

Membership	Early Registration	Late Registration
Presenters	RM 80	RM 100
Full/associate/life members	RM 80	RM 100
Non-members	RM 120	RM 140
Spouse/family of members	RM 50	RM 70
Student members	RM 30	RM 50
Student non-members	RM 50	RM 70
Children below 5 years	free	free

Accommodation

Accommodation is at the participant's own expense. Participants are advised to make early room reservations as the Conference coincides with school holidays. For reservation, please complete the attached Hotel Reservation Form and fax it directly to the hotel. For further information, please contact the hotel:

The Puteri Pacific Johor Bahru &
Persada International Convention Centre
Tel: +603 - 2715 0343
Fax: +603-2032 2588
Email: sales@puteripacific.com
Website: www.puteripacific.com

PERSATUAN GEOLOGI MALAYSIA
GEOLOGICAL SOCIETY OF MALAYSIA
NATIONAL GEOSCIENCE CONFERENCE 2011

Name: _____
Profession: _____
Organisation: _____
Address: _____
Membership Type: _____
Tel: _____ Fax: _____
Email: _____
Name & age (for children) of accompanying persons

I would like to attend NGC2011
 I would like to join the Pre-Conference Fieldtrip
 I would like to present the following paper(s):

1: _____

2: _____

Please email the abstract(s) to geologicalsociety@gmail.my

Signature _____ Date _____

PERSATUAN GEOLOGI MALAYSIA GEOLOGICAL SOCIETY OF MALAYSIA NATIONAL GEOSCIENCE CONFERENCE 2011

The Geological Society of Malaysia is pleased to announce that the National Geoscience Conference 2011 (NGC2011), 24th in the annual series of conferences, will be held at the Puteri Pacific Johor Bahru & Persada International Convention Centre, Johor from 11th to 12th June 2011. The Conference is a premier geoscientific event in Malaysia, which is well attended by geoscientists from academia as well as the public and private sectors. NGC2011 is co-organised with Minerals & Geoscience Department Malaysia (JMG) and Universiti Teknologi Malaysia (UTM).

Theme: *Geoscientists and Ethics of a Sustainable Society*

Knowledge on the earth systems is the key element in formulating appropriate ethics for sustainability. With such knowledge geoscientists hold great responsibilities in addressing issues that put a sustainable future for human societies in jeopardy. The challenges are certainly enormous, which include utilising our knowledge as a tool to identify threats to sustainability and to develop viable solutions for these threats. Most importantly we are also obliged to instill sense of awareness on ethical frameworks of a culture that will pursue a sustainable society. Concerted efforts with other scientific communities are essential in promoting the importance of the ethical consequences in any scientific and engineering endeavors.

Programme

The technical program of NGC2011 consists of oral and poster presentations on all aspects of geoscience related to the theme. Presentations by keynote speakers on topics of relevance to the theme and interest to the nation is planned. There will be a one-day Pre-Conference Fieldtrip to Tanjung Piai National Park.

Call for Papers

Once again we seek your support to ensure the success of NGC2011. Participants are invited to present papers on original research either in English or Bahasa Malaysia for the Technical Sessions. Contributors may submit more than one paper, however the Organising Committee has the right to select only one paper by any first author for oral presentations, while the rest will be for poster presentations. Priority will also be given to papers with full manuscript.

Please come and share your experiences, ideas and expertise for the benefit of our country and future generations.

Those who would like to present papers are required to submit an extended abstract. The extended abstract should be between 500 to 750 words long, can have up to 3 figures and/or tables and must have at least 3 references. Abstracts of accepted papers will be distributed to all participants of NGC2011. Full papers will be reviewed and published in the Bulletin of the Geological Society of Malaysia. Manuscript requirements can be downloaded from <http://geology.um.edu.my/gsmpublic/NGC2011/Instruction.pdf>.

Pre-Conference Fieldtrip

Location: Tanjung Piai National Park
Date: 10 June 2011 (Friday)
Number of participants: Maximum 30
Charges: RM 10.00 per person

Tanjung Piai (named after a local fern Paku Piai) forms the southernmost tip of Mainland Asia. Declared as State Park Wetland and RAMSAR Site on 31 January 2003, it is covered with 526 hectares of mangroves and 400 hectares of intertidal mudflats. It contributes to more than 4 % of the total mangrove forest in Malaysia. The mangrove is typically a *Rhizophora apiculata*-*Bruguiera cylindrica* dominated coastal forest, is a home to 20 mangrove species and other mangrove-associated plants and animals. The forest has been managed and conserved to protect this particular shoreline of Johor.

REGISTRATION FORM

PERSATUAN GEOLOGI MALAYSIA GEOLOGICAL SOCIETY OF MALAYSIA



NATIONAL GEOSCIENCE CONFERENCE 2011

The Puteri Pacific Johor Bahru &
Persada International Convention Centre
11 – 12 June 2011

*Geoscientists and Ethics
of a Sustainable Society*

Please complete and return this form to:

National Geoscience Conference 2011
Geological Society of Malaysia
c/o Department of Geology
University of Malaysia
50603 Kuala Lumpur, Malaysia
Tel: (603) 7957 7036 Fax: (603) 7956 3900
Email: geologicalsociety@gmail.com

You may also download the pdf registration form from http://geology.um.edu.my/gsmpublic/NGC2011/frst_circular.pdf and email the completed form to the above email address.

UPCOMING EVENTS

December 7-10, 2010: The 2nd South Asian Geosciences Conference & Exhibition, India Expo Centre & Mart, Greater Noida, New Delhi. Contact: Tel: 44 207 840 2136; Fax: 44 207 840 2119; email: aridgway@oesallworld.com; website: www.allworldexhibitions.com

December 14-15, 2010: An International Symposium on Forensic Approach to Analysis of Geohazard Problems, Mumbai, India. Contact: Prof. G. L. Sivakumar Babu, Organizing Secretary, Dept. of Civil Engineering, Indian Institute of Science, Bangalore, 560012, India; Tel: 91 80 2293 3124/2360; Fax: 91 80 2360 0404; email: gls@civil.iisc.ernet.in; website: www.civil.iitb.ac.n/~igc2010

January 8-14, 2011: Colloquium of African Geology, University of Johannesburg, South Africa. Contact: Dr Hassina Mouri, Tel: 27 11 559 4706; Fax: 27 11 559 4702; Email: hmouri@uj.ac.za; website: www.cag23.co.za

February 2-10, 2011: International Symposium on Precambrian Accretionary Orogens and Field Workshop in the Dharwar Craton, Southern India. Contact: Prof M Jayananda, Dept of Geology, Centre of Advanced Studies, University of Delhi, Delhi – 110 007, India. Tel: 91 9560714425; Fax: 91 11 27666295; email: dharwarsymposium@gmail.com; mjayan.geol@gmail.com

February 9, 2011: The Transport and Fate of Groundwater Contaminants, Burlington House, London, UK. Contacts: Daren Gooddy, Tel: 01491 692328; email: dcg@bgs.ac.uk; Simon Bottrell, Tel: 01133 435228; email: s.bottrell@see.leeds.ac.uk. Website: www.geolsoc.org.uk

February 21-25, 2011: E & P Well Log Interpretation Series, Crown Plaza Mutiara Hotel, Kuala Lumpur, Malaysia. Contact: Tel: +65 6408 9775; Fax: +65 6337 0757; Email: registration@petrosync.com; website: www.petrosync.com

February 28-March 1, 2011: Introduction to Exploration and Production for New Engineers and Non-Technical Professionals, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

February 28-March 1, 2011: Project Management for Oil & Gas Professionals, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

February 28-March 2, 2011: Fractured Reservoir Characterisation, Kuala Lumpur, Malaysia. Contact:

Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

February 28-March 2, 2011: Fundamentals of Upstream Oil & Gas Contracts for Engineers & Procurement Professionals, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

March 2-3, 2011: Managing Complex Projects for Oil & Gas Professionals, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

March 7-8, 2011: Petroleum Geology Conference & Exhibition 2011, Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia. Contact: Tel: 603-79577036; Fax: 603 79563900; email: geologicalsociety@gmail.com; website: www.pgcm.com.

March 8-10, 2011: Technical Report Writing and Presentation Skills for Engineers and Technical Professionals, Jakarta, Indonesia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

March 9-11, 2011: Offshore Convention, Vietnam. Contact: Roger Shen, Conference Director, Tel: 86 21 5108 6710 206; email: roger.shen@neventurecorp.com

March 16-18, 2011: Petroleum Risk Analysis & Portfolio Management, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

March 21-23, 2011: E & P Business Simulation, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

March 21-25, 2011: Deepwater Engineering with Aberdeen Drilling Schools International, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

March 28-29, 2011: Drilling Essentials for New Engineers and Non-Technical Professionals in Oil & Gas, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

March 21-April 1, 2011: Exploration and Production Process Basics: Understanding the Petroleum Industry Value Cycle, Kuala Lumpur, Malaysia. Contact: Tel: 603 2168 4751; email: ap-enquiries@petroskills.com

March 28-April 1, 2011: High Pressure High Temperature Engineering with Aberdeen Drilling Schools International, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

April 1-3, 2011: Technical Report Writing and Presentation Skills for Engineers and Technical Professionals, Miri, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

April 3-8, 2011: Subduction zone dynamics from the surface to the lower mantle, Vienna, Austria. Contact: Susanne.buiter@ngu.no; website: <http://meetingorganizer.copernicus.org/egu2011/session/6973>

April 4-6, 2011: LNG Fundamentals with Mike Williams and Richard Harrison, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

April 4-8, 2011: Basic Geophysics, Kuala Lumpur, Malaysia. Contact: Tel: 603 2168 4751; email: ap-enquiries@petroskills.com

April 11-13, 2011: Introduction to Offshore Drilling Installations, Kuala Lumpur, Malaysia. Contact: Caroline at Tel: +65 6741 9749; email: caroline@asiaedge.net

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