

**PERSATUAN GEOLOGI MALAYSIA**

**WARTA GEOLOGI**

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

**Majlis (Council) 1978/79**

**Pegawai-pegawai (Officers)**

- Presiden  
(President)** : Tan Bock Kang, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.
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- Penolong Setiausaha  
(Hon. Asst. Sec.)** : Khoo Kay Khean, Jabatan Penyiasatan Kajibumi, Bangunan Ukor, Jalan Gurney, Kuala Lumpur.
- Bendahari  
(Treasurer)** : Gan Ah Sai, Jabatan Penyiasatan Kajibumi, Bangunan Ukor, Jalan Gurney, Kuala Lumpur.
- Pengarang  
(Editor)** : Ahmad Jantan, Jabatan Geologi, Universiti Kebangsaan Malaysia, Kuala Lumpur.

\*\*\*\*\*

**Ahli-ahli Majlis (Councillors)**

- James Lau, Petronas, Peti Surat 2444, Kuala Lumpur.
- Mohd. Ali Hassan, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.
- Abdul Aziz Hussin, Jabatan Kejuruteraan Petroleum, Universiti Teknologi Malaysia, Kuala Lumpur.
- Tan Boon Kong, Jabatan Geologi, Universiti Kebangsaan Malaysia, Kuala Lumpur.
- S.S. Subramaniam, Killinghall Tin, Peti Surat 202, Puchong, Selangor.
- Khalid Ngah, Carigali Petronas, Peti Surat 2444, Kuala Lumpur.
- Chin Lik Suan, 13 Lorong SS1/11A, Kampong Jamil Rais, Petaling Jaya.
- Leong Khee Meng, Petronas, Peti Surat 2444, Kuala Lumpur.

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## CATITAN GEOLOGI (GEOLOGICAL NOTES)

Geologist featured on new Swiss banknote.

Peter H. Stauffer, Jabatan Geologi, Universiti Malaya.

The great 18th century geologist, geophysicist and meteorologist Horace-Benedict de Saussure has been accorded the unusual honor of being portrayed on a banknote. The new 20-franc note issued by the Swiss National Bank in April 1979 (Fig. 1) features a portrait of de Saussure (after a painting by Jean-Pierre Saint-Ours) on the front side. The reverse shows de Saussure's expedition climbing the Tacul glacier in the Alps with a mountainous background showing the Aiguille de Bellaval (after engravings by H. L'Eveque and C.G. Geissler), with a superimposed design of an ammonite shell.

Born in Conches in the Canton of Geneva in 1740, de Saussure was first interested in botany. Searches for plants led him into the mountains, whose fascination took hold of him for the rest of his life. Given a professorship in philosophy at the academy of Geneva at the age of 22, de Saussure taught there for the next 24 years. But his real love was the mountains. His extensive explorations in the Alps starting in 1773 and his attempts to understand their rocks and structure were recounted in the four volumes of Voyages dans les Alpes (1779-1796). This work is a landmark survey representing the results of 14 complete crossings of the range and 16 partial traverses, and it stands as the first comprehensive geological reconnaissance of the Alps.

Among de Saussure's many contributions to our science were the introduction and popularisation of the terms geology and geologist in their modern meanings. In the Alps, he established the marine origin of some strata by recognition of fossils (hence the ammonite on the banknote) and accepted (after much resistance) that the folded strata were originally horizontal, both inferences basic to understanding how the range was formed.

De Saussure also made contributions to meteorology, including the invention of the hair hygrometer to measure humidity (a picture of which also appears next to his portrait on the front of the banknote), and his explorations and books played a large role in stimulating the modern enthusiasm for mountaineering.

Horace-Benedict de Saussure, who died in 1799 in Geneva, also made noteworthy contributions in physics and botany, and one of his personal habits could wisely be emulated by many scientists today: he made it an invariable rule to write down his observations and thoughts on the spot and to rewrite them in extended form within 24 hours if at all possible.

It would be nice to think that I could follow this brief note with a series of similar ones - much like N.S. Haile's earlier (and continuing?) series 'Geology on stamps'. But I suspect that de Saussure's honor must be unique, and no other geologist is anywhere featured on

a banknote. If I am wrong I would be delighted to hear about other geologists so honored (preferably with a specimen enclosed).

I am grateful to my father and to the staff of the Swiss Embassy in Kuala Lumpur for making available specimens of the new 20-franc note, and also to Jaafar b. Hj. Abdullah for photographing them.

#### Sources

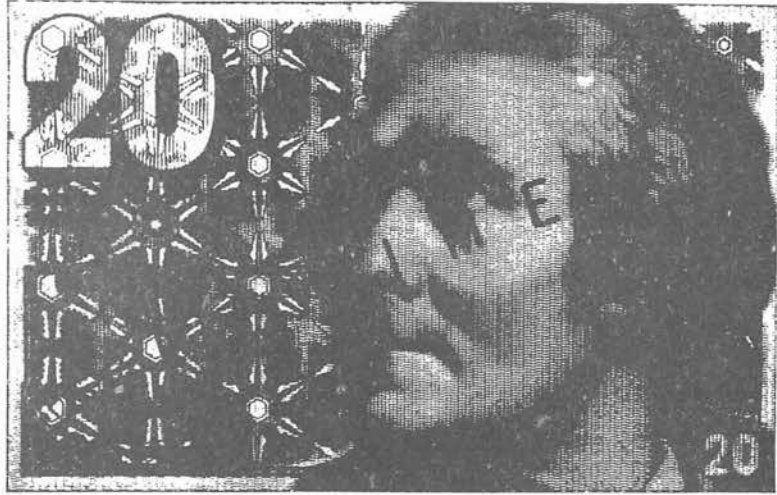
Anonymous, 1979. The new 20-franc banknote. Swiss Review, no. 2/79, 9-10.

Adams, F.D., 1938. The birth and development of the geological sciences. New York, Dover Publications (reprint 1954), 387-392.

Geikie, A., 1905. The founders of geology, 2nd Ed. New York, Dover Publications (reprint 1962), 181-191.

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BANQUE NATIONALE SUISSE  
BANCA NAZIONALE SVIZZERA +



SCHWEIZERISCHE NATIONALBANK  
BANCA NAZIUNALA SVIZRA +



Fig. 1. The new Swiss 20-franc banknote (1979). Front (above) features a portrait of geologist Horace-Benedict de Saussure, a smaller version of which forms a watermark in the blank space, and also shows the hair hygrometer, which he invented. Other side (left) pictures one of his many expeditions in the high Alps, with an overprinted design of an ammonite to take note of his work on fossils.

Scale: Approximately X 1.

## MESYUARAT PERSATUAN (MEETINGS OF THE SOCIETY)

Seminar Petroleum, 1978

It is regretted that the publication of abstracts of the above seminar held at Hotel Jaya Puri last Dec. 11th 1978, is so delayed. Although a little delayed, the abstracts of the above seminar held at Hotel Jaya Puri last Dec. 11th 1978 will refresh those who may just be about to have forgotten them, apart from them reminding us of the forthcoming Petroleum Seminar, 1979.

Abstracts of Papers

**Sedimentology of carbonate buildups in Central Luconia, Offshore Sarawak: M. Epting, Sarawak Shell Bhd.**

*During the Miocene, the Central Luconia Province of offshore Sarawak became a major carbonate producing area. It is characterised by the extensive development of buildups. These buildups are of considerable size and some 200 have been seismically mapped.*

*An extensive drilling programme over the last decade revealed that the carbonates can be subdivided into four basic facies types reflecting specific ecologic and bathymetric conditions. Although some intervals suffered compaction, the majority of the carbonates exhibit excellent secondary porosity. Fresh water leaching during emergent stages of the buildups and dolomitisation were the major diagenetic events which caused the overall good reservoir quality of the Central Luconia carbonates.*

\*\*\*\*\*

**The Stratigraphy of the northern part of the Straits of Melaka: Nik Ramli, Petronas.**

*The northernmost part of the Straits of Melaka consist of basin shelf stratigraphy with Tertiary sediments from the North Sumatra Basin onlapping and extending onto the Pre-Tertiary of the Sunda Shelf. The Lower Baong Shale and the Baong shale pinches out at the edge of the Sunda Shelf. Onlapping Lower Baong Sandstone and Pre-Baong Calcilutite extend for a short distance into the Malaysian Acreage. The overlying Upper Tertiary Seurule and Julu Rayeu continues across the shelf with the Seurule rapidly thinning towards the East and North-East. A characteristic of the Sunda Shelf in this area is the presence of isolated North trending troughs or Grabens infilled with Pre-Baong Sandstones.*

\*\*\*\*\*

**Some aspects of the stratigraphy and tectonics of Malaysia-Philippine Region: A.R. Lloyd, Asia Exploration Consultants.**

*Very few papers have so far been published on the stratigraphy and tectonics of offshore West Malaysia, Gulf of Thailand and the Philippines. So those which are available play an important role for*

those outside the involved companies and government departments in understanding these areas. Recent papers published on these areas (Wollands & Haw, 1976; Armitage & Viotti, 1977 and Martin, 1976) contain obvious contradictions or errors. Because of their important role, it is considered that these contradictions and possible errors are brought out and discussed so that they can be corrected.

\*\*\*\*\*

**Structural styles in Western Sabah Offshore: A.J. Bol, Sabah Shell Bhd.**

*Sabah Shell's exploration activities have revealed that two structural provinces, differentiated by the age of the main phase of deformation, can be recognized in the Neogene basin west of the Sabah mainland.*

*In south and central Sabah, between Labuan and Mangalum, the main tectonic phase occurred during Upper Miocene times. It led to the formation of steep, upthrust, rather narrow anticlinal trends separated by broad, deep, gently folded synclines. The anticlines, which have been referred to as ridges, are thought to be related to basement-induced faulting.*

*The Upper Miocene fold-belt is separated by important fault zones from a province in which similar structural movements took place during the Pliocene. This tectonic phase primarily affected the area between Mangalum and Kudat where upthrust anticlinal trends were formed, separated further basinwards by large normal faults from gentle anticlinal uplifts with crestal faults. The intensity of deformation is greatest in the Mantanani area where the E-W oriented Sulu trend bends into the SW-NE Borneo trend. It decreases towards the southwest (Mangalum) and is only mildly expressed in the area west of the Upper Miocene Fold belt (Samarang).*

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**BERITA BERITA PERSATUAN (NEWS OF THE SOCIETY)**

**Seminar Petroleum, 1979 (Petroleum Seminar, 1979)**

The arrangement for the Petroleum Seminar, 1979, organised by the Society and scheduled for Dec. 15th 1979, is well underway. At least six papers, ranging from Petronas, the Oil Industries and from local universities have been received. It is hoped that more papers will be forthcoming. Private individuals are especially invited to respond to the call for papers since it is in this sector that seems to be lacking. It is also hoped that more will come and attend this seminar as we are optimistic that we may get an important dignitary to officially declare the seminar open.

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Lawatan Lapangan (Field trips)Pulau Tarutao, April 1980

The response to our news circular has been very encouraging. We have about 10 members keen in participating in the field trip. However, we have to limit the number to about 20 to make it manageable since we have to camp out and prepare our own food while on the island. This is a chance to see it ourselves the oldest sedimentary sequence in Southeast Asia - the Cambrian fluvio-deltaic sequence, named the Machinchang Formation for its equivalent outcrops in Northwest Peninsular Malaysia.

Arrangements have still to be finalised and members, particularly those who have responded to our news circular, will be informed in due course.

Lake Toba

The Society is also planning a trip to Lake Toba in Northern Sumatra, among others to see the biggest crater lake in the world. Plans are still in preliminary stages. More details about this trip will be circulated when planning is in a better shape.

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Bahan-bahan baru di Perpustakaan Persatuan (New Library Additions)

1. Kvaso, D.D., 1979. The late-Quaternary history of large lakes and inland seas of eastern Europe.
2. Pyokin, Mauri, 1979. Mixed sand and gravel shores in the western Finnish Archipelago.
3. Commonwealth Geological Liaison Office, Newsletter, June - Aug., 1979.
4. Kobayashi, T., ed., 1979. Geology and Paleontology of Southeast Asia, vol. 20.
5. Huffman, G.G., et al., 1978. Geology and mineral resources of Bryan County, Oklahoma.
6. International Subcommittee on stratigraphic classification of IUGS Commission on Stratigraphy, Circular no. 57, 1979.
7. IMM Bulletin no. 872 & 873, 1979.
8. The Science Reports of the Tohoku University, Sendai, Japan, Second Series (Geology), vol. 49, no. 1 & 2, 1979.
9. Contributions from the Institute of Geology and Paleontology, Tohoku University no. 80, 1979.
10. IMM Transactions/Secton A, vol. 88, 1979.
11. National Library, Singapore and branches: Programmes, July - Aug., 1979.
12. National Library, Singapore: Buku-buku baru, Jan-April 1979.
13. National Library, Singapore: Teen talk, 1979.
14. Geophysical Research Bulletin, vol. 17, no. 1, 1979.
15. Acta Stratigraphica Sinica, vol. 3, no. 1 & 2, 1979.
16. National Library, Singapore: Adult Reference Collections: Accessions list, June & July, 1979.
17. South China: Redbeds of the Cenozoic and Mesozoic, 1979.
18. Journal of Geosciences, Osaka City University, vol. 22, 1979.



19. Chantaramee, S., 1978. The analysis and interpretation of minor folds developed in the Mae Tha Group at Ban Cham Bon, Lamphun, Thailand.
20. Records of the Geological Survey of New South Wales, v. 18, pt. 2, 1978.
21. Scripta Geologica, 49, 1979.
22. "..... a lifelong love affair". The memoirs of Lewis G. Weeks, Geologist. 1978.
23. Gaffney, E.S., 1979. The Jurassic turtles of North America.
24. American Museum Novitates, no. 2668, 1979.
25. Oklahoma Geological Survey, Bulletin 114, 1978.
26. Bulletin of the National Science Museum, Series C, vo. 5, no. 2, 1979.
27. Ramingwong, T., & Ratanasathien, B., 1979. Geochemistry and hydrogeology of Mae Chan Geothermal System, Chiang Rai.
28. Bulletin Bureau de Recherches Geologiques et Minieres Supplement, 1979.
29. Acta Palaeontologica Sinica, vol. 18, no. 3, 1979.
30. Commonwealth Geological Liaison Office, Liaison Report 136, 1979.

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#### Keahlian (Membership)

Berikut adalah mereka yang telah diterima sebagai ahli Persatuan:

#### Ahli Penoh (Full Members)

1. Barry Hoffman, Resource Associates of Alaska, Inc., 3230 Airport Way, Fairbanks, Alaska 99701.
2. Ramingwong Tavisakdi, Dept. of Geological Sciences, Chiangmai University, Chiangmai, Thailand.
3. J.B. Blanche, Petronas Carigali, Oriental Plaza, Jalan Parry, Kuala Lumpur.
4. J.D. Blanche (Mrs), c/o Petronas Carigali, Oriental Plaza, Jalan Parry, Kuala Lumpur.

#### Ahli Pelajar (Student Members)

1. Kamaludin b. Hassan, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.
2. Paul P. Sinjeng, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.
3. Zainol Abidin b. Sulaiman, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.
4. Mohd. Noor b. Ismail, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.
5. Saim Suratman, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.
6. Mohd. Redzuan b. Mohd. Said, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.
7. Sohor b. Omar, Jabatan Geologi, Universiti Malaya, Kuala Lumpur.

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Pertukaran Alamat (Change of Address)

J.H. Bennie, P.N. Tambang Batubara, Unit Produksi Ombilin, Sawahlunto, West Sumatera, Indonesia.

Che Ghani Ambak, Jabatan Penyiasatan Kajibumi, P. Surat 1015, Ipoh, Perak.

Cathy L. Connor (Miss), Dept. of Geology, University Montana, Missoula, Montana 59812, USA.

Chin Lik Suan, 13, Lorong SS1/11A, Kampong Jamil Rais, Petaling Jaya.

M.J. Garrett, 63 Prince George Avenue, Southgate, London N14, England.

William Jauncey, Cities Service East Asia, Inc., Suite 606, Cathay Building, Mount Sophia, Singapore 9.

Mohammad Hatta Abdul Karim, Pejabat Penyiasatan Kajibumi, Off Jalan Seberang Putera, Alor Setar, Kedah.

K.H. Rajakumar (Mrs), Geoscians, 544-1A, Batu Complex, 3½ Mile Jalan Ipoh, P. Surat 2366, Kuala Lumpur 13-11.

Karl W. Stauffer, Dr., 39 Una Way, Mill Valley, California 94941, USA.

H. Van Wees, c/o SEATRAD Centre, 14 Tiger Lane, Ipoh, Perak.

Yunus Abdul Razak, Pejabat Penyiasatan Kajibumi, Off Jalan Seberang Putera, Alor Setar, Kedah.

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Alamat dikehendaki

We would like the address of the following members:

1. Low Yew Lim, formerly of c/o 896/7, Jinjang Selatan, Jinjang, Kuala Lumpur.
2. Redzuan Junin, formerly of Jabatan Geologi, Universiti Kebangsaan Malaysia, Kuala Lumpur.
3. Mohd. Khair H. Abd. Kadir, formerly of Jabatan Geologi, Universiti Malaya, Kuala Lumpur.

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## BERITA BERITA LAIN (OTHER NEWS)

Soil Science and Agricultural Development in Malaysia, May 12-14, 1980

The Malaysian Society and Soil Science, who intends to bring together soil scientists in Malaysia, is organising a conference to

cover broad topics on Soil Survey and Land Use, Soil Chemistry and Fertility, Nutrition and Fertiliser Use, Soil Physics, Conservation and Management and Extension and Education. There will also be a special panel discussion on "Soil Science and its role in the 4th Malaysian Plan".

All correspondence to: Secretary  
Executive Committee  
Conference on "Soil Science & Agricultural  
Development"  
P. Surat 2644, Kuala Lumpur.

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Directory of National and International Geoscience Societies specially  
concerned with Developing Countries

It is not uncommon that geologists, in the course of their work, move from one country to another. A good geoscience contact of any new country that one moves in would be its geological society. It is hoped that the following list of national and international geoscience societies, extracted from Agid News, Nos. 16-18, will some day, be of use to geoscience readers.

- Argentina: Asociacion Geologica Argentina, and Asociacion, Paleontologica Argentina, both at - Maipu 645, 1<sup>o</sup> Piso, Buenos Aires.
- Bangladesh: Bangladesh Geological Society, c/o Geological Survey of Bangladesh, Pioneer Road, Segunbagicha, Dacca 2.
- Brazil: Asociacao Brasileira de Geologia de Engenharia, C.P. 7141, 01000 Sao Paulo, SP.  
Sociedade Brasileira de Geologia, Cidade Universitaria, 01000 Sao Paulo, SP.
- Colombo: Colombian Society of Petroleum Geologists & Geophysicists, Apartado Aereo 13726, Bogota, D.E.  
Sociedad Colombiana de Geologia, Facultad de Ciencias, Departamento de Geologia, Apartado Postal 535, Bogota, D.E.  
Sociedad Colombiana de Geotecnia, Apartado Aereo 16953, Bogota, D.E.
- Costa Rica: Asociacion de Geologos de Costa Rica, Apartado 6153, San Jose.
- Ecuador: Ecuadorean Geological & Geophysical Society, Casilla 371A, Quito.
- Ghana: Association of Mining Engineers, Tarkwa School of Mines, Tarkwa.  
Ghana Geotechnical Society, c/o Building & Road Research Institute, University P.C. Box 40, Kumasi.
- Guatemala: Sociedad Geologica de Guatemala, Central American Institute for Industry, Avenida La Reforma 4-47, Zona 10, Guatemala City.

- India:** Geological Society of India, 16/1 Ali Asar Road, Bangalore 560052.  
 Indian Geotechnical Society, c/o Institution of Engineers, Bahadur Shah Zafar Marg, New Delhi 110 001.  
 Indian Society of Earth Sciences, Department of Geology, Presidency College, Calcutta 700073.  
 Mining, Geological and Metallurgical Institute of India, 29, Chowringhee Rd., Calcutta 700 016.
- Indonesia:** Association of Indonesian Geophysicists, Jl. Diponegoro 57, Bandung.  
 Association of Indonesian Geoscientists, Jalan Diponegoro, 57, Bandung.  
 Indonesian Petroleum Association, Jl, Menteng Raya 3, Jakarta.
- Iraq:** Union of Iraqi Geologists, Box 3092, Al Saadoon, Baghdad.
- Korea (South):** Geological Society of Korea, Department of Geology, Seoul National University, Seoul 151.
- Libya:** Petroleum Exploration Society of Libya, and Earth Science Society of Libya, Box 821, Tripoli.
- Malaysia:** Geological Society of Malaysia, Department of Geology, University of Malaya, Pantai Valley, Kuala Lumpur.
- Mexico:** Asociacion de Ingenieros de Minas, Metalurgistas, y Geologos de Mexico, Apartado Postal 1260, Mexico D.F.  
 Colegio de Ingenieros de Minas, Metalurgistas, Petroleros y Geologos de Mexico Avenida Juarez, Desp. 307, Mexico 1, D.F.  
 Mexican Geological Society, Instituto de Geologia, Ciudad Universitaria, Apartado Postal 70-296, Mexico 20, D.F.  
 Union Geofisica Mexicana, Instituto de Geofisica, Mexico 20, D.F.
- Nigeria:** Nigerian Geotechnical Association, c/o Nigerian Society of Engineers, PMB 1041, Yaba.  
 Nigerian Society for Mining and Geosciences, c/o Dept. Physics, Ahmadu Bello University, Zaria.
- Peru:** Sociedad Geofisica del Peru, Geophysical Service Inc, Mayor Armando Blondet 280, Lima.
- Philippines:** Geological Society of the Philippines, Bureau of Mines Building, Pedro Gil St., Manila.
- Puerto Rico:** Geological Society of Puerto Rico, Box 40575, Minillas Station, San Juan, Puerto Rico, 00940.
- Senegal:** Association Senegalaise pour l' Etude du Quaternaire de l'Ouest Africain, Laboratoire de Geologie, Faculte des Sciences, Dakar-Fann.
- Singapore:** Singapore Association for the Advancement of Science, Singapore Science Center, Jurong Town Hall Road, Singapore 22.

- Sri Lanka: Sri Lanka Association for the Advancement of Science,  
281/50 Baudhaloka Mawatha, Colombo.
- Thailand: Geological Society of Thailand, Department of Mineral  
Resources, Rama VI Road, Bangkok 4.
- Turkey: Turkish Association of Petroleum Geologists, Turkish  
Petroleum Corp, Mudaffa Caddesi 22, Ankara.
- Venezuela: Asociacion Venezolana de Geologia, Mineria, Petroleo,  
Apartado 60 400, Caracas.

#### Regional and International Societies

- Association of Geoscientists for International Development, Apartado  
21741, San Martin, Caracas, Venezuela.
- Geological Society of Africa, c/o Dept. of Geology, Ahmadu Bello University,  
Zaria, Nigeria.
- Pacific Science Association, Box 6037, Honolulu, Hawaii 96818, USA.
- Southeast Asia Petroleum Exploration Society, Suite 606, Cathay Building,  
Mount Sophia, Singapore 9.
- West African Science Association, Box 7, Legon, Ghana.

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#### Buku dan bahan-bahan lain yang baru terbit (Recently published books and other materials)

- Multichannel Common Depth Point (CDP) Seismic Reflection Data - Additional  
Atlantic Survey Lines 7, 8, 11, 12, 13.  
Contact: National Geophysical and Solar-Terrestrial Data Centre, Boulder,  
Colorado 80303.
- Geological Field Trips - Columbia 1961-1978.  
Contact: The Secretary  
Sociedad Colombiana de Geologos y Geofisicos  
Apartado Aereo No. 13726  
Bogota, Colombia.

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#### Kalendar (Calendar)

Under this column the Society will note coming events on meetings,  
courses and symposia of interest to members. Date in parentheses gives  
the issue of Newsletter containing more information pertaining to the  
event:

#### Other events 1979

- 1979 : 14th Congress of the Pacific Science Association USSR.  
B.G. Gafurov, Chairman of the Soviet National Pacific  
Committee, Academy of Sciences of the USSR, Moscow.  
(Jul-Aug, 1977).

- Sep 17 - 22 : AAPG-SEG stratigraphic interpretation of seismic data. AAPG Education Dept., P.O. Box 979, Tulsa, Oklahoma 74101, USA.
- Sep 18 - 21 : CCOP/SOPAC Symposium on 'Petroleum Potential in Island Arcs, Small Ocean Basins, Submerged Margins, and Related Areas, Suva, Fiji'. CCOP/SOPAC Technical Secretariat, c/o Mineral Resources Dept., Private Main Bag, GPO, Suva, Fiji. (Jan-Feb, 1979).
- Oct 15 - 18 : Law of the Sea Institute: Thirteenth Annual Conference. Law of the Sea Institute, University of Hawaii, 2540 Dole Street, Holmes 401, Honolulu, HI 96822. (Mar-Apr 1979).
- Oct 28 - : ICOLD XIII Congress on Large Dams, New Delhi. C.V.J.  
Nov 2 : Varma, Organizing Secretary, XIII Congress on Large Dams, c/o Central Board of Irrigation and Power, Kasturba Gandhi Marg, New Delhi, 110001, India.
- Oct 29 - : AAPG Diagenetic controls on carbonate porosity  
Nov 1 : evolution. AAPG Education Dept., P.O. Box 979, Tulsa, Oklahoma 74101, USA.
- Nov 17 - 21 : X World Mining Congress, Istanbul. The Turkish National Committee of the World Mining Congress, Ziya Gokalp Caddesi, No. 17, Kat 8, Ankara, Turkey.
- Nov 20 - 21 : National Symposium on the availability of strategic minerals, London, U.K. The Secretary, Institute of Mining and Metallurgy, 44, Portland Place, London, WIN 4BR. (May-Jun, 1979).

### 1980

- Jan 7 - 10 : International Conference on Engineering for Protection from Natural Disasters, Bangkok, Thailand. Conference Secretary, ICEPND, Div, of Geotechnical and Transportation Engineering, AIT, P.O. Box 2754, Bangkok, Thailand.
- Feb 11 - 16 : Fifth Gondwana Symposium, Wellington, New Zealand. Symposium and field trips. C.J. Burgess, Fifth Gondwana Symposium, Victoria University of Wellington, Private Bag, Wellington, New Zealand. (May-Jun 1978).
- Feb 14 - 17 : Interdisciplinary Conference on Earthquake Prediction Research in the North Anatolian Fault Zone, Istanbul, Turkey. A. Vogel, Institut für Geophysikalische Wissenschaften, Freie Universität Berlin, Rheinbabenalle 49, 1000 Berlin 33, F.R.G.
- Feb 25 - 26 : Time Scale Symposium, London, U.K. Secretary, Geological Society, Burlington House, Piccadilly, London, W1, U.K.
- Mar 4 - 6 : Petroleum Geology of the Continental Shelf of North-West Europe, London, U.K. Miss I. McCann, Conference Officer, Institute of Petroleum, 61 New Cavendish Street, London, W1M 8AR, U.K. Tel: 01-636-1004, Telex: 264380.

- Mar 24 - 28 : AAPG Petroleum Reservoir Fundamentals School. AAPG Education Dept., P.O. Box 979, Tulsa, Okla. 74101, USA.
- Apr 7 - 11 : International symposium on Landslides 'ISL 1980', New Delhi. Dr. R.K. Bhandari, Organising Secretary, ISL 1980, P.O. Central Road Research Inst., New Delhi, 110002, India.
- Apr 10 - 15 : 8th International Geochemical Exploration Symposium, Hannover, Fed. Rep. Germany. Dr. H. Gundlach, Organising Committee, 8th International Geochemical Exploration Symposium, P.O. Box 51 01 53, D-3000 Hannover 51, F.R.G. (Jul-Aug 1978).
- May 12 - 14 : Conference on Soil Science and Agricultural Development in Malaysia. Secretary, Executive Committee, Conference on Soil Science and Agricultural Development, P.O. Box 2644, Kuala Lumpur, Malaysia. (Jul-Aug 1979).
- May 27 - 30 : National and International Management of Mineral Resources. The Secretary, Institute of Mining and Metallurgy, 44 Portland Place, London W1N 4BR, U.K. (Mar-Apr 1979).
- Jun 25 - 27 : Fore-Arc Sedimentation and Tectonics in Modern and Ancient Subduction Zones, London, U.K. J.K. Leggett, Department of Geology, Imperial College, Prince Consort Road, London, SW7 2AZ, U.K.
- Jul 7 - 17 : 26th International Geological Congress, Paris, France. Paul Sangnier, Secretaire General du 26eme C.G.I., Maison de la Geologie, 77-79 rue Claude-Bernard, 75005, France. (Nov-Dec 1977).
- Aug. 4 - 9 : Second European Conodont Symposium, Vienna and Prague. ECOS II, c/o Geological Survey of Austria, P.O. Box 154, Rasumofsteygasse 23, A-1031, Vienna. (Jan-Feb 1979).
- Sep 8 - 13 : World Conference on Earthquake Engineering, Istanbul, Turkey. A. Gurbinar, Secretary, 7 WCEE, Yuksel Caddesi 7/B, Ankara, Turkey.
- Sometime in 1980 : Workshop on Fission Track Dating by the Geoscience Network. Prof. B.K. Kim, Executive Secretary, Geoscience Network, Seoul National University, Seoul, South Korea.

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- Mar 29 - Apr 4 : International Conference on Arid Soils - Properties, Genesis and Management, Jerusalem, Israel. International Conference on Arid Soils-Properties, Genesis and Management, P.O. Box 3054, 122 Hayarkon St., Tel Aviv, Israel. (May-June 1979).