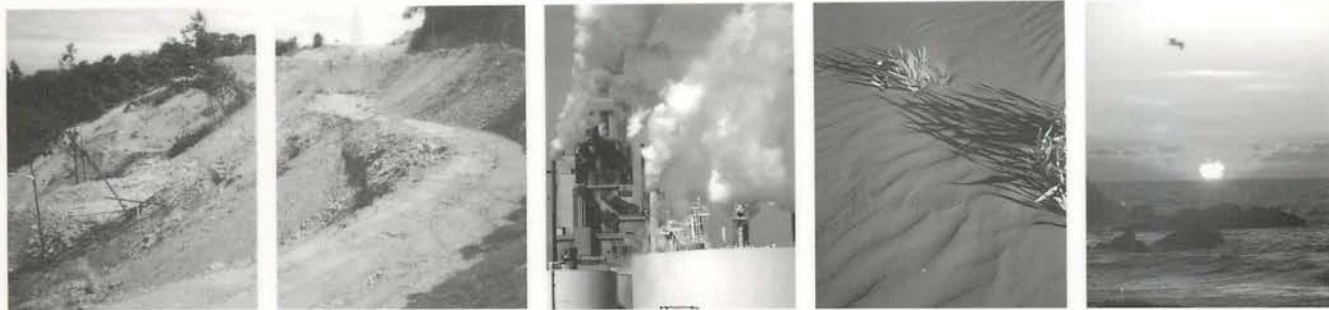


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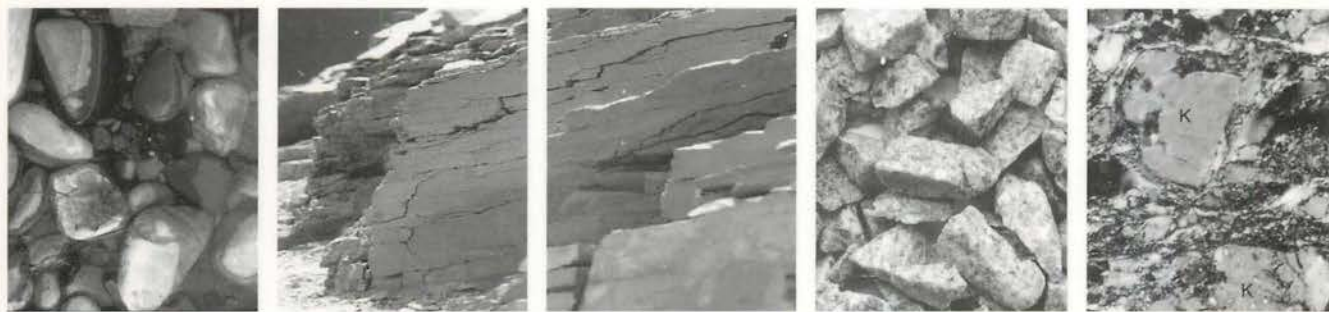


GEOLOGICAL
SOCIETY
OF MALAYSIA



ANNUAL GEOLOGICAL CONFERENCE 2001

Pan Pacific Resort, Pangkor Island, Perak Darul Ridzuan
2 – 3 June 2001



Editors: G.H. Teh, Mohd. Shafeea Leman & T.F. Ng

Collaborators:

- Minerals and Geoscience Department Malaysia
- Universiti Kebangsaan Malaysia
- University of Malaya
- Universiti Sains Malaysia
- Institute of Geology Malaysia



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Geological Society of Malaysia

Annual Geological Conference 2001

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2 – 3 June 2001

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Perpustakaan Negara Malaysia Cataloguing-in-Publication Data

Annual Geological Conference (15th: 2001:Pulau Pangkor)

Proceedings: Geological Society of Malaysia Annual Geological Conference 2001, Pan Pacific Resort, Pangkor Island, Perak Darul Ridzuan, 2-3 June 2001 / editors G.H. Teh, Mohd. Shafeea Leman, T.F. Ng; organiser: Geological Society of Malaysia

ISBN 983-99102-2-1

1. Geology - Malaysia - Congresses. 2. Geochemistry - Malaysia - Congresses. 3. Mines and mineral resources - Malaysia - Congresses. I. Teh, G.H. II. Mohd. Shafeea Leman. III. Ng T.F. IV. Persatuan Geologi Malaysia. 551.09595

Published by

Geological Society of Malaysia

c/o Department of Geology, University of Malaya, 50603 Kuala Lumpur
Tel: 603-79577036 Fax: 603-79563900 Email: geologi@po.jaring.my

Printed by

Art Printing Works Sdn. Bhd.

29 Jalan Riong, 59100 Kuala Lumpur

FOREWORD

The Annual Geological Conference 2001 is the 15th in the series of conference organised by the Geological Society of Malaysia since 1986. The Conference provides participants with an excellent opportunity to exchange scientific and technical information. The Annual Conference 2001 is the second one held in Perak, after eleven years. This allows Malaysian geoscientists to get a closer overview on the many contributions of past geoscientists in resourcing out the earth material and a paradigm shift in current developmental approach towards better utilisation of earth material. A fieldtrip each on industrial minerals and geotourism in the Kinta Valley will be organised for this purpose. Perak certainly is the most suitable destination for geoscientists to evaluate their past performance and contribution towards the development of the country, in order to perform better towards the same course in the future. A Forum on the conference theme, *Enhancing Contribution of Geoscientists in the Development of Malaysia*, has also been organised. The Forum discusses the current development in various geoscience-based industries, to allow Malaysian geoscientists evaluate past performances and open up more opportunities for them to improve their future performance.

The scientific programme of the Conference is organised in accordance with the conference theme, with keynote addresses being restricted to resource and technological advancement. Seven themes of papers presented in the Conference are Mineral & Energy Resources, Tectonics & Structural Geology, Sedimentology & Stratigraphy, Petrology & Geochemistry, Geoscience Tools & Techniques, Engineering Geology & Hydrology and Environmental Geology & Conservation. A total of 48 papers were selected for presentation, and these papers are expected to enhance current knowledge and understanding of the geology of Malaysia.

This Proceedings, distributed to all participants during the Conference, is the second published by the Geological Society of Malaysia for this annual event. For the organising committee, the challenge towards publication of the Proceedings is even greater than before. The main task was to maintain the quality of the material and presentation. I would like to take this opportunity to express my sincere gratitude and appreciation to Prof. Dr. Teh Guan Hoe and Mr. Ng Tham Fatt and the members of the Editorial Subcommittee for their hard work and commitment. I would also like to extend my gratitude to the board of reviewers, the editorial subcommittee and all the contributors for making this publication a reality. Lastly, I am also indebted to members of organising committee for their dedication and support in making the whole conference programme a success.

Mohd. Shafeea Leman
Chairman
Organising Committee
Annual Geological Conference 2001

CONTENTS

Section I: Mineral and Energy Resources

- 3 The industrial mineral-based industries in Malaysia – Current status and prospect
CHU LING HENG AND AZIMAH ALI
- 7 Influence of paleostresses in controlling the gold mineralization in Lubok Mandi area, Peninsular Malaysia
HERU SIGIT PURWANTO, IBRAHIM ABDULLAH, WAN FUAD WAN HASSAN AND JUHARI MAT AKHIR
- 13 Perubahan batuan dinding berkaitan dengan permineralan emas di Penjom Gold Mine, Pahang, Malaysia
WAN FUAD WAN HASSAN DAN HERU SIGIT PURWANTO
- 19 Interpretation of newly acquired aerogravity data enhances the prospectivity of the Tinjar Province, onshore Sarawak
OTHMAN ALI MAHMUD, H.D. TJIA AND MOHD IDRUS ISMAIL
- 27 Evolusi Delta Sungai Pahang: Bukti-bukti permukaan dan bawah tanah
CHE AZIZ ALI
- 33 A petrographic comparison of oil-generating coals from the tropics and non oil-generating coals from the arctic
WAN HASIAH ABDULLAH
- 39 Epithermal gold-copper mineralization, late Neogene calc-alkaline to potassic calc-alkaline magmatism and crustal extension in the Sunda-Banda arc
R. SOERIA-ATMADJA, Y.SUNARYA, SUTANTO AND HENDARYONO
- 47 Batu kapur Formasi Chuping dan batu kapur Monsal Dale: Petrografi dan geokimia unsur major dua sumber karbonat bagi simen Portland
AZIMAH HUSSIN DAN MOHAMMAD MD TAN
- 53 Characterisation, geochemistry and possible usage of the limestone hills in the Kinta Valley area, Perak
G.H. TEH, MAHAT SIBON AND MOHD SAZANI SAARANI
- 59 Geology, structure, mineralisation and geochemistry at the Penjom gold deposit, Penjom, Pahang
SONNY LIM, SHARAFUDDIN MOHAMAD, MONA SULAIMAN, G.H. TEH AND JASMI HAFIZ ABDUL AZIZ

Section II: Structural Geology/Tectonics

- 67 Structural style of Cyberjaya and Putrajaya, Selangor
LIM CHEE KHEONG
- 71 Wrench tectonics in Sundaland – Subsurface and offshore evidence
H.D. TJIA
- 79 Gaya struktur kawasan Cendering-Rhu Rendang, Marang Terengganu: Satu cadangan kehadiran batuan Pra-Karbon di Jalur Timur Semenanjung
IBRAHIM ABDULLAH

Section III: Sedimentology, Paleontology and Stratigraphy

- 87 Penganggaran sekitaran sedimen di delta Pahang dengan teknik seismos pantulan
UMAR HAMZAH
- 91 A palynological study on an Early Cretaceous rock sequence at Bukit Belah, Batu Pahat, Johor
UYOP SAID AND SYAHRUL SALEHUDIN
- 99 Occurrences of Scyphocrinites loboliths in the Upper Silurian Upper Setul limestone of Pulau Langgun, Langkawi, Kedah and Guar Sanai, Berseri, Perlis
LEE CHAI PENG
- 105 Some Triassic Radiolarians from the Kodiang Limestone, northwest Peninsular Malaysia
BASIR JASIN AND ZAITON HARUN
- 111 Some Radiolarians from the bedded chert of the Kubang Pasu Formation
BASIR JASIN AND ZAITON HARUN
- 115 Conglomerate from Setia Jasa near Temerloh, Pahang, Peninsular Malaysia: Its stratigraphic position and depositional environment
MOHD SHAFEEA LEMAN AND MASATOSHI SONE

Section IV: Petrology, Petrography and Geochemistry

- 123 Some problems with the classification of the 'S' type granite with particular reference to the Western Belt granite of Peninsular Malaysia
AZMAN A. GHANI
- 131 Petrogenesis of Perhentian granite and Perhentian Kecil syenite from the Perhentian Island, northeastern Peninsular Malaysia: Evolution of two contrasting magmas
AZMAN A. GHANI
- 141 Occurrence, field relations and petrochemistry of mafic dykes from the Kenyir area, central Terengganu: Preliminary observation
AZMAN A. GHANI, A TAJUDDIN IBRAHIM, MOHZANI MOHAMAD, WAN ZAKARIA WAN IBRAHIM, REKMAN A. RASHID, WAN SALMI WAN HARUN, MOHAMAD ALI HASAN, ISMAIL YUSOFF, AFANDI MUDA, KAMARUL HADI ROSELEE, AMAN SHAH OTHMAN AND ANUAR ISMAIL
- 147 Geokimia Tonalit Berangkat dan Leukogranit Kenerong sebagai petunjuk kepada pembentukan dan asalan magma Kompleks Stong, Kelantan
RAMDANSHAH BACHO DAN MOHD ROZI UMOR
- 155 Asalan zenolit di dalam pluton Granit Noring, Kompleks Stong, Kelantan
SURAYA TULOT DAN MOHD. ROZI UMOR
- 161 Komplek Stong: Kajian geokimia ke atas batuan Granit Noring dan Leukogranit Kenerong di Kampung Renyok, Jeli, Kelantan
NUR HUDA MOHD JAMIN DAN MOHD ROZI UMOR
- 169 Penamaan semula Kompleks Stong secara stratigrafi kepada unit Suit Stong berdasarkan cerapan lapangan
MOHD ROZI UMOR DAN HAMZAH MOHAMAD

Section V: Geoscience Tools and Techniques

- 177 Remote sensing and geoscience: Current status and future challenges
N. N. MAHMOOD, K. F. LOH, J. BOLHASSAN AND A. T. JASMI
- 185 Spectral-Analysis-of-Surface-Waves method: An initial assessment and its potential use in geology
MOHD AZMI ISMAIL, KHAIRUL ANUAR MOHD NAYAN, ABDUL RAHIM SAMSUDIN AND ABDUL GHANI RAFEK
- 191 Kaedah Keberintangan Geoelektrik dalam Pemetaan Intrusi Air Masin di Kerpan, Kedah
BASHILLAH BAHARUDDIN, ABDUL RAHIM SAMSUDIN, ABDUL GHANI RAFEK DAN MOHD TADZA ABDUL RAHMAN
- 197 Penggunaan bersama data geofizik dan geologi dalam kajian akuifer aluvium pantai, kawasan Pekan-Rompin, Pahang
ISMAIL C. MOHAMAD, ABD. RAHIM SAMSUDIN DAN ABD. GHANI MD. RAFEK
- 205 *In situ* measurement of geoelectrical resistivity in relation to weathering profile of a sedimentary rock mass at Lubuk Paku, Pahang: A case study
ABDUL RAHIM SAMSUDIN AND NGOO, C.N.
- 209 Teknik geofizik dalam kajian tanah runtuh di kawasan Bau, Sarawak
UMAR HAMZAH, ABDUL RAHIM SAMSUDIN, RAHMAN YACCUP, ABDUL GHANI RAFEK, MOHD HAFIZAL MAD ZAHIR DAN LAKAM MEJUS
- 215 Source of the Batu Pahat magnetic anomaly
SAMSUDIN BIN HJ TAIB, KHAIRUN NIZA BAHARALDIN AND AZMAN ABDUL GHANI
- 221 Remote sensing and geographic information system (GIS) approach in groundwater potential zone mapping in hardrock terrain: A case study of the Langat Basin, Selangor
KHAIRUL ANAM MUSA¹, JUHARI MAT AKHIR² AND IBRAHIM ABDULLAH²

Section VI: Engineering Geology

- 229 Physico-chemical properties of carbonaceous shale soils in the Yong Peng area, Johor
TAN BOON KONG AND AZWARI HUSLAN MOHD
- 233 Pencirian geofizik dan geologi kejuruteraan profil luluhawa syis kuarza-mika di km 67, Lebuhraya Timur-Barat, Malaysia
ABDUL GHANI RAFEK, ABDUL RAHIM SAMSUDIN, RAHMAN YACCUP, UMAR HAMZAH DAN KHAIRUL ANUAR MOHD NAYAN
- 237 Influence of discontinuity sets on slope failures at Pos Selim Highway, Malaysia
AZIMAN MADUN AND HUSAINI OMAR
- 243 Mineralogical development in a lime treated clayey sand soil
BABA MUSTA, KHAIRUL ANUAR KASSIM AND MOHD. RAZMAN SALIM
- 247 Engineering geology of slopes for the preparation of EIA reports – A case study from the proposed site for a national secondary school at Ringlet, Pahang Darul Makmur
TAJUL ANUAR JAMALUDDIN AND AHMAD NIZAM HASSAN

Section VII: Environmental Geology and Conservation Geology

- 257 The charge properties of highly weathered tropical soils
J. SHAMSHUDDIN
- 261 Pendekatan geologi dalam penafsiran sejarah Kesultanan Terengganu
ASKURY ABD. KADIR, MOHD YUSOF ABDULLAH DAN KAMAL ROSLAN MOHAMED
- 265 Perubahan zon pinggir pantai dan implikasinya di Kuala Selangor, Malaysia
ZAITUL ZAHIRA GHAZALI, JOY JACQUELINE PEREIRA DAN JUHARI MAT AKHIR
- 273 Komposisi unsur surih dan major di dalam tanah di sekitar kawasan bukit batu kapur Bukit Jernih, Kangar, Perlis
SAHIBIN ABD. RAHIM, MOHAMAD MD. TAN DAN AZIMAH HUSSIN
- 279 Inventori sumber warisan geologi dan landskap Negeri Kelantan
TANOT UNJAH, IBRAHIM KOMOO DAN HAMZAH MOHAMAD
- 287 A geomorphological approach in predicting environmental impacts of proposed development in hilly terrain
TAJUL ANUAR JAMALUDDIN AND AHMAD NIZAM HASSAN
- 295 Preliminary uranium series dates on speleothem in the Kinta Valley and its significance in the karst landscape evolution
ROS FATIHAH, PETER SMART AND YEAP EE BENG
- 301 Minor and trace metals in slurry slime in mined-out ponds in the Kinta Valley, Perak
CHOW WENG SUM
- 311 Pemandangan mampan: Penggunaan pendekatan geosains dalam proses perancangan guna tanah di Malaysia
ROHAYU CHE OMAR, IBRAHIM KOMOO DAN HALIMATON SAADIAH HASHIM

Section I



**MINERAL & ENERGY
RESOURCES**