

ZAKARIA ENDUT

No 10, Solok Ilmu 5, Taman Ilmu, 14300 Nibong Tebal, Pulau Pinang Malaysia

Full name : Zakaria Endut

Nick Name : Zak

Place & Date of Birth : Kuala Terengganu, July 27th, 1971

Nationality : Malaysia

Education Level : BSc (Hons) Geology: University Kebangsaan Malaysia (1995)

Ph. D: University Malaya (2016)

Current Position : Lecturer at Universiti Sains Malaysia

Work Address : School of Materials and Mineral Resource Enginering,

Engineering Campus, Nibong Tebal, Penang

Field of specialization : Mineral Resource

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Working Experiences:

 May 1995 to April 1997: Engineering Geologist at Karak Highway Second Tunnel project.

Company: Terratech Consultant S/B (Subsidiary of MTD Capital Bhd)

Scope of work: Underground geological mapping, supervise geotechnical work. Engineering geological mapping for slope stability and slope design.

• April 1997 to July 1997: Engineering Geologist

Company: Centralized Soil Exploration Sdn. Bhd.

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Scope of work: Geotechnical drilling for site investigation, Geotechnical core logging, surface geological mapping, soil sampling, costing and planning.

August 1997 to April 2015: Senior Mining Geologist, Senior Resources Geologist,
 Superintendent Production Geologist.

Company: Specific Resources Sdn. Bhd. (Penjom Gold Mine, Kuala Lipis, Pahang) Scope of work: Geological mapping. Grade Control and Mine Geologist, mine exploration and grade control ore estimation.

• November 2015 to Dec 2018:

Company: Borneo Oil and Gas Corporation Sdn. Bhd. (Mining Division)

Site: Bukit Ibam Gold Mine, Muadzam Shah; Merapoh Gold Mine, Kuala Lipis, Pahang

Carried out exploration activities for primary/alluvial/colluvial ore resources and primary ore mining. Supervision of trenching sampling and diamond drilling and logging. Preparing resources report and long term planning.

• January 2019 to Present:

Universiti Sains Malaysia: Lecturer

Educational Background

Year	School / University	Place
1978-1983	Sekolah Kebangsaan Beladau Kolam	Kuala Terengganu
1983-1988	Sekolah Menengah (A) Tok Jiring	Kuala Terengganu
1989-1991	Matriculation: Sekolah Menengah Sains	Kuala Terengganu
	Sultan Mahmud	
	Pusat Matrikulasi Kuala Pilah	Negeri Sembilan
1991-1995	University Kebangsaan Malaysia	Bangi, Selangor
	BSc (Hons) Geology	
2010-2015	University Malaya (Ph. D)	Kuala Lumpur

Training and Courses related to geology and mining

Date	Training/Course	Location
1997	Southwest Pacific Rim Gold Copper systems	Penjom
	(by Greg Corbett)	

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2000	New development in grade control, Workshop during Mining	Brisbane, Australia
	Geology Conference (by Bill Shaw)	
2003	Orogenic Lode Gold and Intrusion Related Deposit (By Dr	Penjom
	Ian Bogie, SKM Consultant, Australia)	
2004	Exploration for Orogenic Gold Deposit and Intrusion Related	Penjom
	Gold Deposit (By Prof. David I. Groves)	
2005	Structural Geological Course (By Brett Davis)	Penjom
2006	Exploration and Mining Geochemistry	Penjom
2007	Geostatistical Mineral Resources/Ore Reserve Estimation and	Perth, Australia
2007	meeting JORC requirement	T oran, Trastrana
2008	Hydrothermal system (By Greg Morrison)	Penjom
2013	Introduction to Geostatistic (By Mohan Srivastava)	Bandung, Indonesia
2013	MGEI Porphyry and Epithermal Gold Deposit	Bali, Indonesia
	(Noel White and David Cooke)	
2014	MGEI Gold and copper workshop. Resources estimation and	Palembang, Indonesia
	JORC CODE compliances.	
2015	Resources modeling (Ordinary kriging-Datamine)	Jakarta, Indonesia.
2016	Introduction to Micromine Software	Merapoh, Pahang.

Computers skills

- Microsoft Office (Words, Excel, Access, Power point)
- Mining software: Datamine Studio 3, Basic Micromine
- Arc View 3.2a, Arc Map, Basic Adobe Illustrator CS3
- MP3 Geostatistical software for Grade Control (Conditional Simulation)

Language Skills

- Malay (Very good Oral and written)
- English (Very good Oral and written)

Others

- PhD title: Quartz vein styles and gold mineralization in the Penjom Gold Mine, Pahang,
 Peninsular Malaysia.
- Chairman, Economic Geology Working Group, Geological Society of Malaysia (2011-2016).

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Membership:

MIGM-membership no. 770 Professional Geologist (P. Geo-220)

Publication and full paper proceeding:

Endut, Z., Ng, T. F., Abdul Aziz, J. H., Teh, G. H., 2015. Structural analysis and vein episode of the Penjom Gold Deposit, Malaysia: Implications for Gold Mineralisation and Tectonic History in the Central Belt of Malaysia, Ore Geology Reviews V. 69, p157-173.

Endut, Z., Ng, T. F., Abdul Aziz, J. H, Meffre, S. and Makoundi, C. 2015. Characterization of Galena and Vein Paragenesis in the Penjom Gold Mine, Malaysia: Trace Elements, Lead Isotope Study and Relationship to Gold Mineralization Episodes. Acta Geologica Sinica (English Edition). Vol. 89. No. 6 pp.1801–1840.

Endut, Z., Ng, T. F., Abdul Aziz, J. H., Teh, G. H., 2015b. Style of veins in Penjom Gold Mine, Malaysia–Implications for gold mineralisation and structural episodes. PACRIM Hong Kong, China, 18-20 Mac 2015.

Charles Makoundi, Khin Zaw and Zakaria Endut, 2020, Fluid Inclusion Study of the Penjom, Tersang, and Selinsing Orogenic Gold Deposits, Peninsular Malaysia. Minerals. 10, 111; doi:10.3390/min10020111

Zakaria Endut, Ng Tham Fatt, Jasmi Hafiz Abdul Aziz. 2020. The Main Carbonate Mineral associated with quartz vein in Penjom Gold Deposit, Pahang, Malaysia. Scopus AIP Conference Proceedings 2267.

Makoundi C, Zaw K, Endut Z, 2020. Fluid inclusion study of the Penjom, Tersang, and Selinsing orogenic gold deposits, Peninsular Malaysia, Minerals, 10, (2) Article 111.

Makoundi C, Endut Z, Large R.R, Zaw K, Lounejeva E, et al., 2021. Geochemistry of pyritic mudstones from the Singa formation, Malaysia: insights into gold potential, source of sulfur and organic matter, Geosciences, 11, (7) Article 279.

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References:

- Dr Jasmi Hafiz Abdul Aziz
 Lecturer University Malaya
 (jasmihafiz@um.edu.my)
- 2) Assoc. Prof. Ir. Dr. Syed Fuad Saiyid Hashim Dean, School of Materials and Mineral Resources Engineering. (mrsyfuad@usm.my)