

Myanmar Academy of Arts and Science

**JOURNAL OF THE
MYANMAR ACADEMY OF
ARTS AND SCIENCE**



Geology

Vol. XVIII, No.5A, July, 2020

Myanmar Academy of Arts and Science

Journal of the Myanmar Academy of Arts and Science

Vol. XVIII, No.5A

Contents

Geology

<u>Sr. No.</u>	<u>Title</u>	<u>Page</u>
1	Ye Kyaw Thu , *Metamorphic Conditions of High-Grade Marbles from Mogok-Kyatpyin Area of the Middle Segment of the Mogok Metamorphic Belt, Central Myanmar	1
2	Teza Kyaw , Petrology of Igneous Rocks Exposed in Khuntha-Mindaw Area, Salingyi Township	11
3	Khine Zar Wai , Petrochemistry and Tectonic Implication of High K-Calc-Alkaline Series, Peraluminous S-Type Granitoids of Kyaing Tong, Shan State (East), Myanmar	29
4	Yu Yu San , Petrology and Structures of Volcanoclastic Sedimentary Rocks and Igneous Rocks in Shinmataung Area, Pakokku Township, Magawe Region	41
5	Myo Ma Ma Htwe , Comparative Study on Geochemistry and Tectonic Implication in Two Volcanic Environments: Singu Area and Kyaukphyu-Webaung Area, Mandalay Region	53
6	Mya Moe Khaing , Petrochemical Characteristics and Geochronology of the Igneous Rocks in Bilin and its Environs, Bilin Township, Mon State	63
7	Min Min Khaing , Geology and Heavy Mineral Analysis of Loose Sand from Aukzeik Area, the Kalekok Island, Laming Sub-Township, Mon State	73
8	Wathon Chit , Petrographical and Petrochemical Analyses of Igneous Rocks of Laungzin Area, Mogok Township, Mandalay Region	85
9	Myo Thiri Sandar Aung , Geochemistry of Subduction Related Lamprophyres from Mokpalin-Kanni Area, Mon State, Myanmar	97
10	Thet Paing Kyaw Win , Petrography and Petrochemical Characteristics of Skarn around Monbinzon Village and Minbon Taung Area, Thazi Township, Mandalay Region	105
11	Wai Yan Lai Aung , Morphology of Pyrite and Its Significances from Bawlonelay Area, Mogok	117
12	Lai Lai Min , Geological, Ore Mineralogy and Ore Processing of Copper Deposits, Monywa, Salingyi Township, Sagaing Region	127
13	Tin Aung Myint , Origin of Iron Ore Deposits in Maymyo Formation exposed around Baw Village, Pyin Oo Lwin Township, Mandalay Region, Myanmar	139
14	Tun Naing Zaw , Structural Controls on Lead Mineralization at Linwe Area, Yengan Township, Shan State (South)	149

<u>Sr. No.</u>	<u>Title</u>	<u>Page</u>
15	Kyaw Thu Oo , Ore Mineralogy and Geochemical Investigation of Lead Mineralization in Kyauktap Area, Kalaw Township, Shan State (South)	167
16	Aye Khaing , Geology and Ore Genesis of Lead-Zinc-Copper Mineralization in Myinhe Taung -Yasagyi Area, Ywangan Township, Shan State (South)	183
17	Aung Ye Ko , Preliminary Study of Lead Mineralization at Taung Gaung Area, Madaya Township, Mandalay Region, Myanmar	199
18	Win Khan , Sphalerites Composition and Sulphidation State of Polymetallic Epithermal Quartz Veins at Soripesa Prospect Area, Sumbawa Island, Indonesia	219
19	Hnin Min Soe , Chromite Mineralization at Saisaquine Worksite, Thabeikkyin Township, Mandalay Region	229
20	Than Htoo Aung , Wall-rock Alterations and Associated Hydrothermal Quartz Textures in Antimony Deposits of Thabyu Area, Kya-in-seikkyi Township, Kayin State	247
21	Zaw Win , Granodiorite-hosted Gold deposit in the Magyibin-Kaba Area, Pinlebu Township, Sagaing Region	257
22	Cho Cho Lwin , Sequence Stratigraphic Implication of the Napeng Formation Exposed at Napeng – Namon Area, Kyaukme Township, Northern Shan State	269
23	Nandar Myint Maung , Sedimentology of Moulmein Limestone in Kawkalut-Hnidon Area, Kyaikmaraw Township, Mon State	279
24	Ko Yi Hla , Occurrence of Glauconite and Phosphate in the Sediments from Ayeyarwady Continental Shelf	293
25	Moe Moe Lwin , Sequence Stragraphy of Taungnyo Formation in the Southern part of Mawlamyine Area, Mon State	305
26	Yin Min Htwe , Interplay of Cementation, Mechanical and Chemical Compaction in Early Silurian Phacoidal (Nodular) Limestones of the Pindaya Range, Southern Shan State	317
27	Mi Mi Ko , Sequence Stratigraphy of the Oligocene Limestones exposed at Htondaung Area, Thayet Township, Magway Region, Myanmar	325
28	Khaing Khaing San , Discovery of the Middle Devonian (Givetian) Rugose Corals from the Maymyo Formation, Pyinoolwin and Hsipaw Townships	335
29	Win Win Myint , Facies Analysis of the Kyaukkok Formation in the Sin the Chaung near Milepost 240 between Nay Pyi Taw- Mandalay High-Way	351
30	Naw Chel Phaw , Application of Markov Chain and Entropy Function for Cyclicity Analysis of Oligocene Formations of Ngape-Yenama Area, Southern Part of Minbu Basin, Myanmar	361
31	Kyaw Khaing , Geochemical Analysis of Sandstone of Laungshe Formation in the Ale Ban Area, Tilin Township, Magway Region	373

<u>Sr. No.</u>	<u>Title</u>	<u>Page</u>
32	Wai Wai Lwin , Sedimentary Facies Analysis of the Kalaw Formation in the Tigyt Area, Southern Shan State, Myanmar	381
33	Tun Tun Win , Correlation of Shear Wave Velocity (Vs) and SPT-N Value of Various Soil Deposits for Chanayetharzan Township in Mandalay District	393
34	Zin Mar Kyaw , Environmental Geochemistry of Solid Mine Wastes from Kyitaukpauk – Chaunggyi Area, Singu and Thabeikkyin Townships, Mandalay Region	401
35	Aung Kyaw Myat , A Study on Landslide Potentials and Slope Stability of the Road at Zwekabin Range near Khalauknos Village, Hpa-an Township	413
36	Khin Soe Moe , Estimation of Ground Settlement by Earthquake Induced Liquefaction in Downtown Area, Yangon	429
37	Thant Sin , Analysis of Natural Environmental Changes Using Remote Sensing and Geographic Information System (GIS): Case Area of Moeyungyi Wetland Wildlife Sanctuary and its Environment, Bago Region in Myanmar	441
38	Win Khine Tun , Hydrochemical Analysis and Evaluation of Groundwater Quality in Pyawbwe-Nyaungyan-Payangazu Area, Thazi and Pyawbwe Townships	453

Edition

2020, July, 700 Copies

Copyright

Ministry of Education

Published by

Dr Aung Min (00322) Chairman, Journal Publication Committee,
Myanmar Academy of Arts and Science

ISSN 2520-0186

LCCN 2003-323143

Printed by

U Win Aung (00171), Manager,
Universities Press, Yangon, Myanmar