

JOURNAL OF THE MYANMAR ACADEMY OF ARTS AND SCIENCE



Geology

Vol. XIX, No.5A, January, 2023

Myanmar Academy of Arts and Science

Journal of the Myanmar Academy of Arts and Science

Vol. XIX, No.5A

Contents

Geology

<u>Sr. No.</u>	<u>Title</u>	<u>Page</u>
1	Ye Kyaw Thu , Geochemical Signatures of Gneiss Samples from Onzon, Thabeikkyin and Sagaing Areas: Implications for Protolith Composition, Source–Area Weathering and Depositional Tectonic Setting	1
2	Than Zaw , Petrography and Diagenesis Study of the Okhmintaung Formation Exposed in Chaung Zon Area, Pwintbyu Township, Magway Region	13
3	Win Lwin Thein , Lithofacies Analysis of Paleocene and Early Eocene Units of Sabadan Area, Mindon Township, Magway Region	25
4	Mya Moe Khaing , Petrogenesis of Metasedimentary Rocks in Bilin and Its Environs, Bilin Township, Mon State	35
5	Thidar Win , Erpentinization in the Mwetaung Ophiolite, Tiddim Township, Chin State	45
6	Aung Myo Zaw , Geophysical Approach to the Determination of Local Site Effect in Dagon Township, Yangon Region for Seismic Hazard	55
7	Paing Soe , Heavy Minerals Analysis of the Shwezetaung-Padan Coal Mine Area, Magway Region	67
8	Aung Ye Ko , Geochemical Characteristics of Gold Mineralization at Taung Ni Gold Prospect, Madaya Township, Mandalay Region, Myanmar	81
9	Myo Min Tun , Zeolites in Amygdaloidal Basalts from Tonngone Area, Tigyain Township, Sagaing Region, Myanmar	95
10	Zar Ni Swe , Economic Geology of the Hopang Area, ‘WA’ Self-Administered Division in the Northern Shan State, Myanmar	105
11	Tun Tun Min , Geochemical Investigation of Chromitites in Ultramafic Rocks of Taung-Pi-La Area, Kalay Township, Sagaing Region	115
12	Kyaw Khaing , Geochemical Analysis of Sandstone of Paunggyi Formation in the Akyiban Area, Tilin Township, Magway Region	127
13	May Thu Aung , Petrology and Petrogenesis of Metamorphic Rocks in Za Yat Kwin Area, Thabeikkyin Township, Mandalay Region	135
14	Wai Wai Lwin , Petrography and Diagenesis of the Kalaw Formation in the Tigyit Area, Shan State (South)	147
15	Hnin Min Soe , Protolith of Serpentinite Units at Yega-Inn and Kannbyu Areas Sagaing Region, Myanmar	157
16	Myo Thiri Sandar Aung , Petrogenesis of the Granitoids of Mokpalin-Kyauktanlay Quarries, Mon State Using Trace Element and Rare Earth Element Geochemistry	171
17	Htay Maung , Provenance and Depositional Processes Determination of Pondaung Formation Based on Heavy Mineral and Granulometric Analysis, Ti Gon- Ka Baing Area, Yinmarbin Township, Sagaing Region	181

<u>Sr. No.</u>	<u>Title</u>	<u>Page</u>
18	Moe Zat , Sedimentary Facies Analysis of Miocene Clastic Strata in Kalewa-Mawleik Area, Sagaing Region	191
19	Wint Wint Htun , Soil and Water Quality Analysis in Kyonpyaw Area, Patheingyi District, Ayeyarwady Region	207
20	Tin Aung Myint , Mineral Occurrences and Deposits Along Muse-Mandalay Proposed Railway Line	217
21	Ni Ni Win , Petrography of the Nyaung Bin Tha Area, Waingmaw Township, Kachin State	227
22	Khaing Khaing San , Study of the Stratigraphy of The Marine Reptile Fossil Bearing Limestone Unit in Lashio Area, Northern Shan State	239
23	Aung Kyaw Myat , Soil Degeagation Along Yangon-Naypyidaw Highway Between Mile Post 10 and 40 in Myanmar	249
24	Tun Tun Win , Assessment of Seismic Soil Liquefaction Based on Shear Wave Velocity Using 2% and 10% Probabilities of PGA Values with Earthquake Magnitude-6.5 MW in Mandalay City	261
25	Wai Yan Lai Aung , The Existence of Hercynite in Metapelites from Mogoke Metamorphic Belt	271
26	Mi Mi Ko , Depositional Environment and Lithofacies Association of the Kangyigon Chaungshe Area, Nyaung U Township, Magway Region	281
27	Zin Maung Maung Thein , Perissodactyla from the Neogene Sediments of Myanmar	291
28	Zaw Lin Kyaw , Determination of Site Effects of Soil Condition on Spt Values for Ground Motion in Yangon Business City, Myanmar	301
29	Su Su Khine , Observation of Landforms of Granitic Rocks in Pa Nyit Beach in Launglon Township, Tanintharyi Region	313
30	Me Me Aung , Potential Landslides on Weathered Granitic Rocks Along the Myitkyina-Kanpetii Car Road, Kachin State	323
31	Than Than Thwe , Hydrocarbon Potential of Cretaceous Tethyan Realm in Myanmar	333
32	Teza Kyaw , Petrological Significance on Granitoid Rocks Exposed in Mya Yeik- Ta Yaw Gyin Area, Monywa-Salween Segment of Western Myanmar Arc	341
33	Tint Swe Myint , Tectonic Setting and Provenances of Pane Chaung Formation Exposed at the Eastern Part of Indo-Myanmar Range, West Myanmar	353
34	Naing Htun Lin , Evolution of Tide-Dominated Estuarine Facies System in the Oligocene Okhmintaung Formation of the Myasagaing-Shwemaungzun Area, the Minbu Sub-Basin, Central Myanmar	363
35	May Thet Aye , Petrography and Geochemistry of Calc-Silicate Rocks Exposed in Kantha-Aungtharya Area, Thabeikkyin Township, Mandalay Region	371
36	Khaing Myat Thwin , Reptilian Remains of Irrawaddy Formation in Yinseik Area, Magway Region	379

<u>Sr. No.</u>	<u>Title</u>	<u>Page</u>
37	Naw Chel Phaw , A Study on Evolution of Porosity in Sandstone Reservoirs of Okhmintaung Formation Between Ngape and Yenama Area, Magway Region	389
38	Tint Tint Tun Petrological Study of Metamorphic Rocks Exposed in Chaungzon Area, Chaungzon Township, Mon State	401
39	Khin Maung Hla , Deformation Characters Along the Sagaing Fault Zone Between Indaw and Singu Township, Central Myanmar	413
40	Hlaing Myo Nwe , Geochemical Properties of Laterite and Lateritization Processes in Hpa-an Township, Kayin State	423
41	Min Han Nyein , Chemical Analysis of the Groundwater in Mayangone Townshio, Yangon Region	433
42	Tin Myint Oo , A New Light on Development and Evolution of Mann Anticline East Flank of Salin Basin	443
43	Ko Yi Hla , Middle Shelf Zone Foraminiferas Occurred in the Sediments of Northern Part of the Andaman Sea	453