GEOSCIENCE, EXPLORATION & EXTRACTION 2022

*“Empowering Geoscience for Inclusive Growth & Sustainable Development”*

**APEC HAUS, PORT MORESBY, PAPUA NEW GUINEA**

**23-25 NOIVEMBER 2022**

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**Abstract Guide**

**Title** : Must be precise and has less than 25 words

**Author Details** : Affiliation and Postal Address are included.

 Corresponding author should be indicated and must have email address.

**Abstract** : 300 – 500 words

**Keywords** : 5 – 7 words

**Font Type** : Arial Narrow

**Text alignment** : Justified

**Font Size** : Size 12 – Heading and Bold

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 Size 10 – Text and references

**Acknowledgements**: Assistance and/or sponsorship provided should be noted; presence or absence of conflict of

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**References** : Follows those of MDPI online journal Geosciences, using numbering system

**Language** : English (British style)

 Any local word is to be italicised.

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Note: When submitting the abstract, author is required to name the sub-theme.

Geo-tourism an emerging geoscience field to promote environmental conservation and sustainability, educational and tourism opportunities within Papua New Guinea and the Pacific Islands

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The dynamic landscapes that hosts Papua New Guinea’s rich oil, gas and mineral fields is a result of its unique geological heritage at the heart of the collision between the Australian Continental and the Pacific Oceanic plates. Despite its promotion as the land of a million different stories which are reflections of the diverse cultures, an appreciation of the landscape development and geological understanding has never been part of its conservation approach and tourism promotion.

Known as the tourism of geology and landscape, geo- tourism includes the biotic characteristics of the landscape such as flora and fauna (biodiversity), cultural features, non- living and built areas while emphasizing more on the origins and significance of the geographical features or geo-sites. It is the geological landscapes that shape communities and its residents and how they live; hence, an appreciation for science within host communities is created through geo- tourism initiatives.

**EXAMPLE**

*Figure 1. Pacific Islands Volcanic panoramic view; a tourism potential.*

Encompassing the global aims of green climate, geo-tourism initiative resolves this locally through a geo-conservation strategy within the environmental conservation approach and as geohazard awareness strategy for development plans. Geotourism can also be incorporated as a mine closure and rehabilitation measure to promote environmental sustainability while preserving certain mining landscapes for tourism engagement and geoscience education.

While, Pacific Tourism Organisation (SPTO), Pacific Community (SPC) and United Nations Educational Scientific and Cultural Organisation (UNESCO) have partnered to support tourism recovery with the establishment of geoparks on existing ecotourism sites in Fiji, Tuvalu, Samoa and Vanuatu, Papua New Guinea through the Mineral Resources Authority’s Geological Survey Division (MRA-GSD) has formed domestic collaborations to develop geotourism products ranging from tourism attractions, educational opportunities including geoscience research and conservation for better appreciation of our environment.

**Keywords:** Geoscience, Geo-tourism, Geo-conservation, Papua New Guinea, Pacific

**References**

Hall, R., 2002. Cenozoic geological and plate tectonic evolution of South-east Asia and the South-west Pacific: computer- based reconstructions, model and animations. Journal of Asian Earth Sciences, v 20, p 353-431.

Deer, W. A., Howie, R. A. and Zussman, J., 1962. Rock-Forming Minerals, Volume l. Longmans, Green & Co., London (UK), 371 p.