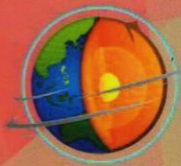


5TH ASIA AFRICA MINERAL RESOURCES CONFERENCE

25 - 29 July 2015 | Quezon City, Philippines



5th ASIA AFRICA MINERAL RESOURCES CONFERENCE

SYMPOSIUM PROGRAM

5th ASIA AFRICA Mineral Resources Conference

25-29 July 2015
University of the Philippines,
Diliman, Quezon City, Philippines

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5TH ASIA AFRICA MINERAL RESOURCES CONFERENCE

SCIENTIFIC PROGRAM

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08:00 - 08:30	Registration	
08:30 - 08:45	Opening Remarks <i>Prof. Koichiro Watanabe</i> <i>Kyushu University, Japan</i>	
	<i>Prof. Carla B. Dimalanta</i> <i>University of the Philippines, Philippines</i>	
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	Session 1: Understanding the genesis of copper-gold deposits I <i>Chairpersons: Dr. Kotaro Yonezu & Dr. Betchaida D. Payot</i>	
09:25 - 09:40	The geology and mineralization of the Mankayan copper-gold deposits, Luzon, Philippines <i>R.J.R. Claveria</i> <i>Ateneo de Manila University, Philippines</i>	5
09:40 - 09:55	Epithermal mineralization at the Teine mine, southwestern Hokkaido, Japan <i>E.T. Yuningsih et al.</i> <i>Pajadjaran University, Indonesia</i>	9
09:55 - 10:10	Magmatic hydrothermal system at the southeastern Martabe high-sulfidation epithermal deposit, north Sumatra, Indonesia <i>S. Saing et al.</i> <i>Akita University, Indonesia</i>	15
10:10 - 10:25	Preliminary study on the Hill Reef 1 and Hill Reef 2 veins at the Poboya prospect based on textural characteristics <i>Syafrizal et al.</i> <i>Institute Technology Bandung, Indonesia</i>	21
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	Session 2: Understanding the genesis of copper-gold deposits II <i>Chairpersons: Dr. Rogel Santos & Dr. Adi Maulana</i>	
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10:50 - 11:05	Mineralogy and geochemistry of the Ban Hoayxai Au-Ag gold deposit, Lao PDR <i>K.S. Ariffin et al.</i> <i>University Sains Malaysia, Malaysia</i>	33
11:05 - 11:20	Stream sediment geochemical study for gold target in the Salu Malua prospect, south Sulawesi, Indonesia <i>A. Maulana et al.</i> <i>Hasanuddin University, Indonesia</i>	38
11:20 - 11:35	Gold resources estimation by geostatistical model: A case study of gold mine in Thailand <i>S. Pumjan</i> <i>Chulalongkorn University, Thailand</i>	43
11:35 - 11:50	Characterization of the alteration mineralogy of the Masara gold district, Compostela Valley: Implications on its hydrothermal history <i>B.R.V. Villaplaza et al.</i> <i>University of the Philippines, Philippines</i>	48
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13:00 - 13:20	Plenary Paper 2: Rare earth elements geochemistry of granitoids in Belitung Island, Indonesia <i>Akira Imai</i> <i>Akita University, Japan</i>	51
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	Session 3: Probing for rare earth elements in various terranes <i>Chairpersons: Prof. Mega Fatimah Rosana & Dr. Thomas Tindell</i>	
13:25 - 13:40	Rare earth element (REE) metallogeny of Mongolia <i>S. Jargalan et al.</i> <i>Mongolian University of Science and Technology, Mongolia</i>	
13:40 - 13:55	Petrological, mineralogical and geochemical investigation on the rare earth elements (REE) enrichment in the granitoids in northern Palawan, Philippines <i>J.T. Padrones et al.</i> <i>Akita University, Japan</i>	55
13:55 - 14:10	Geology, mineralogy and geochemistry of granitoids associated with REE enrichment at Sibolga, north Sumatra, Indonesia <i>I. Setiawan et al.</i> <i>Akita University, Japan</i>	60

14:10 - 14:25	Controls on pegmatite hosted U-Th + REE mineralization at Hamisana shear zone area, South Eastern Desert, Egypt <i>W.S.A. Ibrahim et al.</i> <i>Nuclear Materials Authority, Egypt</i>	65
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14:40 - 14:55	Initial geochemical research on scandium as by-product with MacroAsia's Infanta Ni laterite area, southern Palawan, Philippines <i>K. Yonezu et al.</i> <i>Kyushu University, Japan</i>	76
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Petrology of ophiolite complex of Ciletuh Geopark, west Java, Indonesia: A preliminary study

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Introduction

The ophiolite complexes of Ciletuh area are located in Ciletuh Bay, Sukabumi, west Java. This area is becoming popular among the adventure travelers in Indonesia. This area is currently being prepared to become the first National Geopark in west Java. The Ciletuh complex is the only region that has oldest rock formation cropping out in west Java that is composed of very rare ophiolite complexes among the young volcanic rocks cover of west Java Island. The occurrence of this ophiolite is very rare in Java Island. There are only three regions which this occurs: Ciletuh in west Java, Karangsambung and Bayat in Central Java. In Ciletuh region, three major distributions of ophiolite are identified, from north to south, these are Gunung Badak, Gunung Beas and Ujungsodong areas. The area is located to the south of the present day active volcanic arc. Offshore lies the Java trench, a forearc basin and accretionary prism associated with the northerly subduction of the Indian Oceanic Plate (Figure 1). Duyfjes (1940) mentioned that the tectonic of the Ciletuh area is complicated.

This study aims to identify the characteristic of ophiolite complexes in the Ciletuh region as geological heritage. This data will be later used to delineate the boundary of the proposed area as "Geopark" and to understand in detail its relationship with other ophiolite complexes in Central Java and Meratus in south Kalimantan.

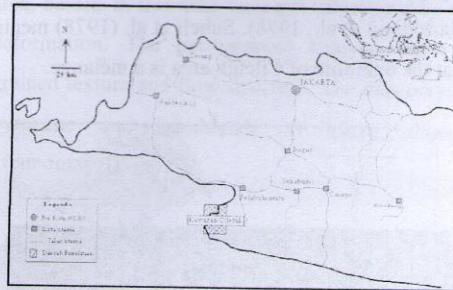


Figure 1. Location map of Ciletuh area, west Java

Methods

This study is based on the results of the field mapping of the Ciletuh Bay area and supported by laboratory analyses performed on collected outcrop samples. Laboratory work include thin section petrography, rock geochemistry and radiometric dating analyses. These were performed to understand the relationships with other ophiolite complexes in Java Island.

Regional Geology

The Ciletuh area is situated on the edge of the Sunda Shield margin to the south of the present day active volcanic arc. This region is an accretionary wedge formation and is an evidence of the Cretaceous subduction between the Eurasian and Indian Ocean plates. The lithostratigraphy of Ciletuh area includes rock exposures of Pre-Tertiary, Early Tertiary and Neogene ages. The late Neogene and Holocene sections are missing as a result of recent uplift and erosion (Schiller et al., 1991). The pre-Tertiary rock formation of Ciletuh region is composed of ophiolite and metamorphic rocks. Sukanto and others (1975)