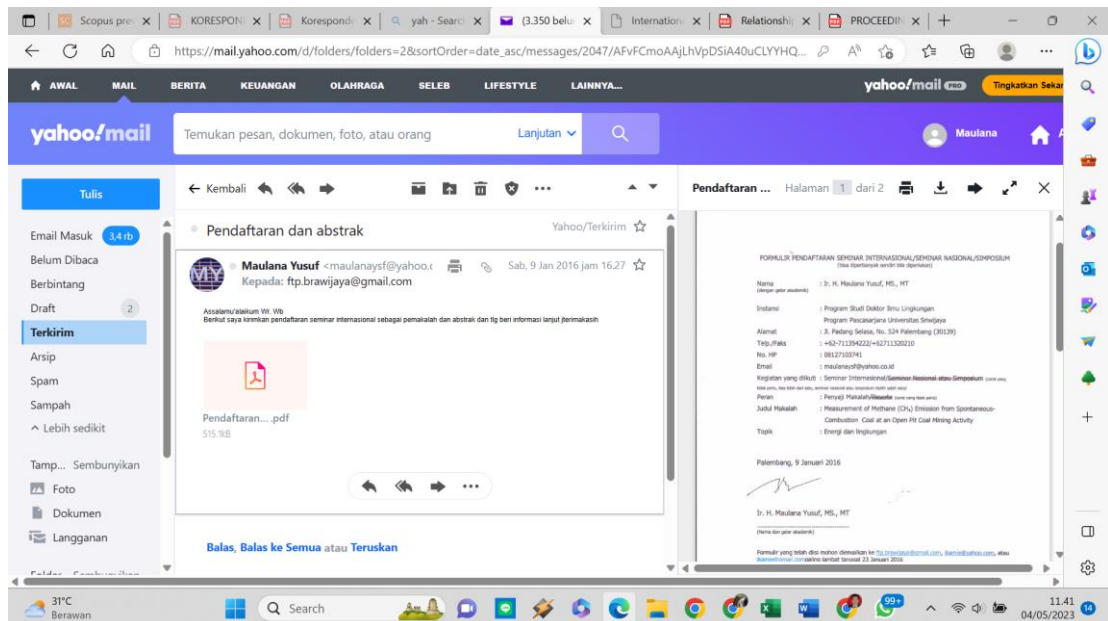
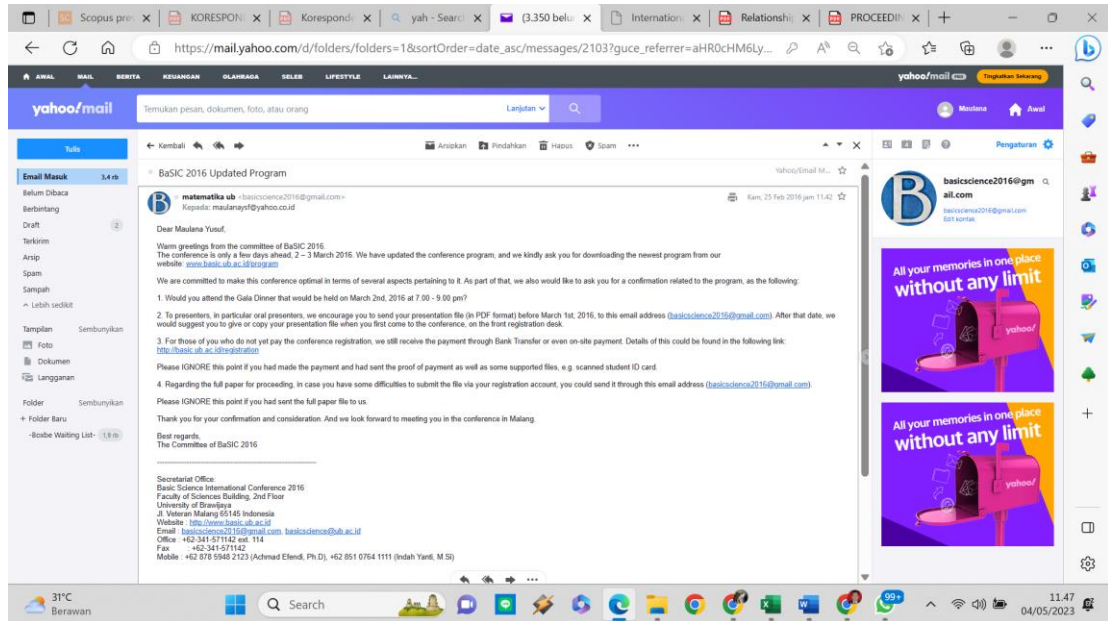


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Measurement of Methane (CH₄) Emission from Spontaneous Combustion Coal at an Open Pit Coal Mining Activity

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Abstrak

Spontaneous-combustion coal is a natural phenomenon that often appears as an open pit coal mining activity. This phenomenon leads to the methane (CH₄) emission. It has been known that the CH₄ emissions contribute up to about 10% to the global warming, in which the methane from open pit coal mining activities contribute up to 20%. This study is designed to measure the CH₄ emissions in a front mining at Ali Laya Field, FT. Bukit Asam (Parens), The South Sumatera, Indonesia. There were 43 samples used in this study, which were observed randomly from a spot of spontaneous-combustion coal at a front mining. The results show that the mean CH₄ emission in this study was about 1.4 ppm, while the maximum CH₄ emissions is about 40.0 ppm. The mean CH₄ emissions observed in this study is smaller compared to that observed at an open pit coal mining in Australia, which is about 2.00 ppm.

Keywords: CH₄ emission, front mining, global warming, open pit coal mining, spontaneous-combustion coal.

Introduction

The phenomenon of spontaneous-combustion coal in open pit coal mining activities has long been studied by various experts. At the end of the 19th century (1875-1880) the studies on spontaneous-combustion coal were conducted intensively due to frequent occurrence of mine fire in the UK. In the years between 1980 and 1990, the cases of spontaneous-combustion coal in open pit coal mining activities often occur in the front and the middle of a coal mine, particularly the large-scale coal > 0.50 Mt/yr. In spontaneous-combustion coal, that is an emission of greenhouse gases, mainly CO₂ and CH₄, gas emissions that cause environmental pollution, which contribute to the cause of global warming. In addition to being an effect on global warming, the spontaneous-combustion coal will also reduce the quality and quantity of coal production. The objective of this study was to design a measurement of CH₄ emissions and at the same time to perform the measurement at the mining front in Ali Laya Mine of FT. Bukit Asam (Parens), The South Sumatera, Indonesia.

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