



Instituto do Petróleo e Geologia – Instituto Público  
(IPG)

4<sup>th</sup> IPG International Geosciences Conference on

Timor-Leste Geological Data and Information for Economic Diversification and Development

Dili 23-26 October 2018

*Note Taker's Document*

Date: 26/10/2018

Time: 15:20

Conference Day: 4

Venue: CCD

Conference Speaker: **Felix J. G. Jones (IPG)**

Presentation Title/Topic: **A Microtremor HVSR Study for the Estimation of Seismic Site Effects in the Capital of Timor Leste.**

Presentation Notes	Q&A
<p>* Timor Leste is one seismically active region,            * Timor Leste located between major boundaries plate of Australia and Eurasia,            * The Australia plate subducts to the north beneath the Eurasian plate at a rate of about 70-80 mm/year.            * The historic earthquakes in the Timor Island</p> <ol style="list-style-type: none"> <li>1. Before 1990, Based on the Southeast Asia Association of Seismology and Earthquake Engineering (SEASEE, 1985) from 1897 to 1984 (magnitude 6 to 6.9) epicenters located offshore north of Timor Island. A magnitude 8 or greater recorded in 1963 with epicenter located offshore southwest of Timor Island.</li> <li>2. From 1990 to present (after USGS)                6.3 magnitude earthquake has struck East Timor. The epicenter of the earthquake was 83 km west of the capital Dili (2015), and was 143 km deep, There was minor damage but no immediate report of casualties from the earthquake.</li> </ol> <p>* Earthquake damage is generally affected by :</p> <ul style="list-style-type: none"> <li>✓ Earthquake strength (magnitude)</li> <li>✓ Depth of source of earthquake</li> <li>✓ Distance of earthquake source to location</li> </ul>	<p>Name: Juvinal            Institution: DIT</p> <p>Question/Clarification: Tanba sa mak case study laiha Timor ?</p> <p><b>Answer</b> : Tuir referensia pekijador internasional sira ne'ebe mak uja iha apresentasaun ida ne'e sai hanesan barumetru ida hodi ajusta dados ne'ebe mak kolekta iha Timor, no sai matadalan ba stadarijasaun tuir peritus internasional nian.</p>

Note Taker's Name:   \_FJ\_



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<p>✓ Building quality, etc.</p> <p>* Site effect of earthquakes on building structure :</p> <ol style="list-style-type: none"><li>1. Acceleration of the ground motion</li><li>2. Amplification factor of thickness sediment layers</li><li>3. Recording the earthquake wave when earthquake occurs</li><li>4. Recording done use Seismometer device installed close to source of earthquake</li></ol> <p>* Definition of microtremor is a low amplitude (in the order of micrometres) ambient vibration of the ground caused by man-made or atmospheric disturbances</p> <p>*Methodology of the study are : Literature review,Field Data collection and recorded automatic is stored in the sd card installed on the device, by using three component seismograph portable device, and 39 data which has been collected in field.</p> <p>*The research was conducted in Dili, with distance of observation point is about 250 – 1000 m.</p> <p>* Why Dili, because Dili is a capital and central of business focus on urban area.</p>	
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