

PERTEMUAN PERSATUAN (Meeting of the Society)

Ceramah Teknik (Technical Talk)

MALAM CERUN/JKR

21 March 2007

Geology Department, University of Malaya

(in collaboration with the Dept of Geology, University of Malaya, IEM & IGM)

The Slope Engineering Branch, PWD: An Introduction.

Ling Nan Lay (JKR)

SMART (Slope Management and Risk Tracking): System Architecture.

Hj. Abu Harith B. Samsuddin (JKR)

SMART : System Application.

Melati Mudzaffar Ali (JKR)

Malam Cerun/JKR featured 3 speakers, namely Sdr. Ling N.L., Sdr. Abu Harith Samsuddin and Sdri. Melati Mudzaffar, all from the Slope Branch of JKR, KL. The titles of the presentations and programme are as attached.

Sdr. Ling gave an introduction and broad overview of the Slope Branch of JKR, its various component units and functions. For example, the Forensic unit investigates slope failures after the event. It is worthy of note that there are four geologists (on secondment from JMG) working among some 20 civil engineers in the Slope Branch of JKR.

Sdr. Abu Harith gave the historical development of the SMART (Slope Management and Risk Tracking) system, with some details of the various parameters and algorithms involved in the SMART system. He was among the early pioneers who were involved in the development of the SMART system, albeit adopted and adapted from the Hongkong GEO system.

Sdri. Melati then presented some example applications of the SMART system, mostly for highway slopes since the system was developed for linear structures such as roads and highways. She showed some examples of input parameters, such as various geological factors, and how hazard maps and risk maps can be produced from the system, with case studies from Sabah and Peninsular Malaysia.

As usual, many questions and answers followed the presentations, mostly centred around geological input. The issues of accessibility of JKR publications, reports, and sharing of data were among the "hot" topics discussed during question time. All in all, the audience has benefited from these 3 presentations.

Tan Boon Kong,
Chairman, Working Group on Engineering Geology & Hydrogeology.

MALAM CERUN/JKR



Tan Boon Kong, Chairman of the Working Group on Engineering Geology & Hydrogeology giving the introduction.



Ling Nan Ley delivering his talk



Hj. Abu Harith B. Samsuddin delivering his talk



Melati Mudzaffar Ali delivering her talk



Participants having the tea break



Part of the audience at the Malam Cerun/JKR Talk