

TO: MEMBERS OF THE INSTITUTE OF SURVEYORS OF TRINIDAD AND TOBAGO

FROM: OFFICE MANAGER

DATED: JULY 9TH 08

SUBJECT CPD EVENT TO BE HELD AT THE DEPT. OF SURVEYING AND LAND INFORMATION -
UWI

DATE: ON JULY 22ND 2008 AT 5 P.M

TOPIC: EXPLOSIVE GPS USING GPS TO HELP UNDERSTAND MONTSERRAT VOLCANO BY
PROFESSOR PETER DARE

COST: NIL

Explosive GPS! Using GPS to Help Understand Montserrat Volcano

Dr Peter Dare, FRICS

The volcano on the island of Montserrat experienced a major collapse over the period of July 12-13 2003. A number of GPS receivers were collecting data on the volcano while the collapse occurred and this presentation focuses on the analysis of the data collected.

The presentation will describe previous volcanic activity leading up to the dome collapse in July 2003. The available GPS data will be described.

Positioning results from a variety of GPS processing scenarios will be given including those from the scientific software "Bernese". Differences between the processing scenarios will be presented, with their relative advantages and disadvantages given.

Finally, interpretation of the results as related to the deformation of the volcano will be given.