

# 35<sup>TH</sup> INTERNATIONAL GEOLOGICAL CONGRESS

27 AUGUST - 4 SEPTEMBER 2016 | CAPE TOWN, SOUTH AFRICA



## OD POST 3 Tulbagh-Ceres and SW Cape seismicity

**TRIP LEADER: Coenie de Beer & Nicky Flint**



## **ITINERARY**

Just an hour and a half from Cape Town, situated in the majestic Witzenberg Valley, lies the town of Ceres and Tulbagh, scene of the earthquake in 1969.

Tulbagh is situated at the northern end of the beautiful Tulbagh valley, which is almost completely surrounded by majestic mountain ranges - the Obiqua mountains to the west, the towering Winterhoek on the northern end and the Witzenberg on the eastern side. The Great Winterhoek mountains tower 2077m above sea level and are picturesquely snowcapped in winter.

This day trip will start in Milnerton near Cape Town, believed to be close to the epicentre of the 4th December 1809 event, which damaged buildings in Cape Town. We will then travel across the Swartland area, where the geological characteristics of this intraplate setting will be discussed with stops at several strategic points along the way. The route will take us past the impressive late Precambrian to Cambrian granite plutons and across major fault systems, some of which have been created in Neoproterozoic times, reactivated during Mesozoic breakup of Gondwana and continue to be seismically active. Uncertainties surrounding the location and magnitude of historic events will be discussed and reviewed. We will cross a major Mesozoic fault system, the Worcester Fault, near its northern termination.

Our next stop will be at Tulbagh, where we will visit the local museum to view an exhibition of photographs and information on hitherto the largest known seismic event to hit the SW Cape, the 29th September 1969 earthquake and its series of aftershocks. We will return to Cape Town via the Slanghoek Wine Route and the Du Toits Kloof Pass.

The excursion will strive to integrate the geology and seismicity of the area.

Tour departs Cape Town early morning for the 2 hour drive to the Tulbagh Valley.  
Lunch will be enjoyed at the beautifully set Paddagang Restaurant in Tulbagh.  
Late afternoon return to Cape Town.

### **DATE:**

4 September 2016

**Minimum Persons 4**

**Maximum Persons 15**

### **COST INCLUDES:**

- 1 x lunch
- Transport in private touring vehicles
- Local English speaking driver on all transfers
- Local English speaking guide on all sightseeing excursions
- Guide and Driver meals & accommodation where necessary
- Entrance fees to sightseeing venues as stated in the itinerary above