

- The **OGG** is progressing projects that document Earth history and the underlying geology and soils of the Overberg region, including the **Malmesbury Schists, Cape Granites, Table Mountain Sandstones, Bokkeveld Shales, Bredasdorp Coastal Aeolinites, and Duricrusts**
- **Members** have initiated and constructed Rock Gardens and Earth-Age displays representing 4,600 million years of Earth History at:
  - **Gansbaai:** African Penguin and Seabird Sanctuary
  - **Betty's Bay:** Harold Porter Botanical Garden
  - **Geology walks**, trails and information has been documented for:
    - Clarence Drive
    - Hermanus Cliff Path
    - Hemel en Aarde Wine Valley
    - Sea Point (Cape Town) granite contact



- The OGG is engaging with Pre-primary, and Primary/High Schools in the Hemel & Aarde Valley and elsewhere, to expose scholars, educators, and laypersons to geology, rocks, minerals, soils, water, and their critical role of underpinning our environment, natural resources, food supplies, and infrastructure.
- The organization holds regular online and ad hoc meetings, and field excursions for members and interested parties, **with nominal membership fees of R250 per annum.**
- **Donations** from interested parties are important to fund these larger projects.

35th  
International  
Geological  
Congress  
(Legacy Fund)



## Welcome to the Earth-Age Display

A Journey through 4,600 million years of geological history

**This is the starting-point of the Earth Age display.**  
Walk along this path for the next 46 metres and read the storyboards in sequence. It highlights the birth of the planet and how the Earth's incredibly long geological history formed over a period of 4,600 Ma (million years) until the present day.  
**Geology is the science of the Earth.** The rocks and minerals which make it up, and the different processes which formed these rocks and minerals, and then changed them over this lengthy period of geological time.  
**Important geological events and milestones**, describing interesting facts that occurred during certain time periods, including the presence of early living organisms, life forms and extinctions are highlighted.

**Rock Display**  
At the end of the display you will be directed to a central Rock Garden which will show you in more detail the various types of rocks found in this area. The age of these rocks range from about 600 million years old.

**Harold Porter Botanical Garden Betty's Bay:  
Earth Age Display and Rock Garden.**

### QR Formation of the Earth

4,600 Million Years Ago

**It all started from a disc of dust**  
The Earth, and indeed all the planets, formed from a disc of dust and debris. The Sun formed at the centre and the planets subsequently. The Earth formed at around 4,567 million years ago.

**Separated into different layers**  
Initially it was all molten, but eventually cooled and separated out into the molten, heavy, iron core, the surrounding mantle, and, at last, the crust on which we live.

### Gansbaai Earth-Age display – African Penguin + Sea Bird Sanctuary

**Hamilton Russell Pre-school**

[www.ogsg.co.za](http://www.ogsg.co.za)

## The Objectives and activities of the OGG Geology and Geoheritage program

- Are aimed at interested lay persons and scholars, rather than professional geologists.
- Highlighting the rocks, minerals, soils, clays, and water shape our environment and daily life. They provide materials and metals for infrastructure, buildings, machines, transport, medical procedures, communications, mobile phones, support life, animals, plants, and food supplies the overall objectives of this initiative are summarised below:
- Profiling the remarkable ~600 million years (600 Ma) history of Overberg geology, structure, geomorphology, hydrology, climate change history, and anthropology:
  - By keeping it simple and taking geology to laypersons, scholars, and kids
  - Sharing and communicating the geological endowment and benefits to as broad an audience as possible.

# OVERBERG GEOSCIENTISTS GROUP (OGG)



OGG Brochure #1

## The OGG is registered as a Non-Profit Organisation (Reg. No. 275-138 NPO).

- Fund raising initiatives will enable us to achieve the projects shown overleaf

### **Banking details:**

Bank: Standard Bank

Account Name: Overberg Geoscientists Group NPC

Account number: 10168933800    Type: Current Account

Branch code: 051001    Swift Address: SBZA ZA

Please advise your full name and address when making payments.

### **Contacts:**

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