



Pebble beds: lag gravel between sand waves.



Cross-bedding in 3D: Indicators of deposition and direction.



Wave cut bench: Evidence of sea-level change.

- The OGG has established two Earth Age Displays with Rock Gardens at Betty's Bay (Harold Porter Botanical Garden) and Gansbaai (African Penguin Sanctuary). Designed to educate lay-persons and learners about the make up and origins of the Earth and the rocks around us.



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

- The OGG also holds regular online and ad hoc meetings, and field excursions for members and interested parties, with nominal membership fees of R250 per annum.
- Donations and sponsorship from interested parties are important to fund these larger projects.

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

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# EXPERIENCE THE STORY BEHIND THE EXTRAORDINARY ROCKS ALONG THE HERMANUS CLIFF PATH

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OGG Brochure #4

OVERBERG GEOSCIENTISTS GROUP (OGG)

**LOCATIONS**

Mosselberg "wrinkles": Extreme deformation, forces of Nature (Cape Fold Belt).



Planar and cross-bedding: Indicators of sedimentary Deposition (Estuary, beach and shallow sea).



Cross-bedding or structural imbrication? (Contradictions in the detail)

# HERMANUS CLIFF PATH

## Geology walk

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

### Highlights:

- Gearings Point: Picture the geological setting.
  - How old are these rocks and how did they form?
- Intriguing geological shapes in the rocks.
  - Sedimentary structures:
    - Planar and cross-bedding.
    - Pebble beds.
  - Deformation features:
    - Folds, faults and veins.
    - The "wrinkles" on Mosselberg.
- Shape of the coast line.
  - Why is it so steep?
  - Evidence of past sea levels.
- Evidence of early life:
  - Trace fossils.



Trace fossils: Evidence of early life (Worm trails?).