



19th Quaternary Techniques Short course

Measuring change and reconstructing past environments







GNS Science National Isotope Centre Lower Hutt



TOPICS

Types of archives

- lakes and peats
- marine sediments
- carbonates
- ice cores
- landforms
- soil
- groundwater

Types of proxies

- pollen, chironomids, diatoms
- forams, radiolarians
- stable isotopes of carbon, oxygen, nitrogen
- biomarkers, ancient DNA

Dating techniques

- 14C
- Tritium
- 10Be and 26Al (Surface Exposure Dating)
- Paleomagnetism
- Tephrochronology

Laboratory tours and demonstrations:

14C sample preparation, stable isotope measurement, mass spectrometer measurement, sediment core recovery, soil stratigraphy, ice core analysis and archive, microfossil selection and preparation, hyperspectral core imaging and hand-held XRF.

Registration and full programme:

http://www.gns.cri.nz/qtshortcourse (active from 1 July)

- early registration \$240 incl GST [1-31 July]
- standard registration \$300 incl GST [1-4 August]
- refunds available until 31 July
- limited to 30 participants, minimum participants 20

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