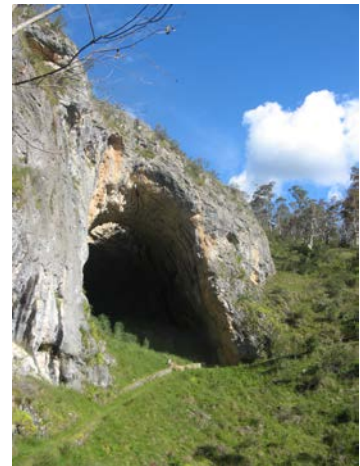


GEOS3733 / GEOS6733 ENVIRONMENTAL GEOPHYSICS



18-22 JULY 2016 YARRANGOBILLY CAVES, SNOWY MOUNTAINS

This 6 unit of credit course is run as a 5-day fieldclass, during O-week of Semester 2. In 2016 we will be based at Yarrangobilly Caves, Kosciuszko National Park. Accommodation is in the newly refurbished Caves House. All food will be provided by professional caterers. All students will be asked to make their own way to and from the fieldclass (4WD, or 2WD with snow chains required).

Each day, you will be given short lectures on the theory behind various environmental geophysical methods used in the analysis of air, water, soil, vegetation or the subsurface. This will be followed by field measurements to enable everyone to get hands-on experience of geophysical techniques.

This course aims to provide skills required in research and consulting environments in hydrology, hydrogeology, climatology and environment sciences. The course will cost ~\$450 (covering all food and accommodation). Numbers are capped to 30. Enrolments opens later in Semester 1. There are no course prerequisites.

Methods covered will include a selection of the following environmental geophysical techniques, depending on instrument availability:

- weather station design and hydrology measurements using geophysical techniques
- infra-red measurements of soil and atmospheric carbon dioxide concentrations
- x-ray fluorescence analysis of soil mineral properties
- optical geophysics, using fluorescence and absorbance, to measure river organic matter water quality
- cavity-ringdown and off-axis mass spectrometry measurements for mapping methane and carbon dioxide processes in the landscape

For more information see:

<http://www.nationalparks.nsw.gov.au/camping-and-accommodation/accommodation/Yarrangobilly-Caves-House>
and <http://www.nationalparks.nsw.gov.au/things-to-do/show-caves/yarrangobilly-caves>

Any questions: please e-mail course convenor Andy Baker on a.baker@unsw.edu.au