

ANZIC MARINE GEOSCIENCE MASTERCLASS



Wellington to Dunedin (1-11 December, 2016)

Coordinators: Giuseppe Cortese (GNS Science) and Gary Wilson (Otago)

ANZIC is pleased to announce a Marine Geoscience Masterclass in New Zealand, hosted by GNS Science (Lower Hutt) and Otago University (Dunedin), with contributions from Victoria University and NIWA (Wellington).

Design: This course will introduce students to the exciting world of marine geosciences through a combination of practical workshops, geological fieldwork and marine activities, including field work in Doubtful Sound (Fiordland), using the Otago University vessel *RV Polaris II*. Students will learn about marine geoscience activities from the office to shipboard scientific work, and as a bonus they will participate on a wonderful geological field trip in northern South Island.

Program: A general introduction to IODP with talks by several Lead Proponents of forthcoming IODP expeditions will kick off the course, followed by a two-and-a-half day geological field trip through eastern Marlborough and North Canterbury. Students will then attend laboratory sessions and lectures at the University of Otago, covering the application of paleomagnetism and physical properties to sediment cores. The main practical activity will be represented by four full days in the Doubtful Sound fiord. Two teams of ten students will spend a day and a half aboard the *RV Polaris II* learning how to acquire acoustic data and surveying an area of seafloor, using multibeam echo-sounder, sub-bottom profiler, sidescan sonar, plankton and sediment sampling techniques, and produce a survey report. A course on estuarine circulation in fjords, making use of the data acquired from *Polaris*, will round up the activities.



Open to: One excellent student from each Australian and New Zealand IODP member university who is completing second year – about 20 students in all. **Students must provide a short written statement to their University leadership (up to 250 words) stating why they would like to participate in the Masterclass.** Selection will be based on academic achievement and the perceived benefit to a student's course of study. All travel, accommodation and other reasonable costs will be covered.

Students are invited to apply to their Department's nominated convenor by September 30, 2016.

Please contact: _____

