



Australia and New Zealand form the Australia-New Zealand IODP Consortium (ANZIC), and the two countries have access to all IODP activities. This bulletin provides current news, job opportunities, scholarships and events relating to both national and international scientific communities.

For more information contact:

Website: www.iodp.edu.au

Website: www.drill.gns.cri.nz

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From The Program Scientist:

The **Southwest Pacific IODP Workshop**, to be held at Sydney University from 8 to 11 October, is designed essentially to build new ocean drilling proposals for the region and strengthen new ones. The context is that the *JOIDES Resolution* will be in the Western and Southwestern Pacific and Indian Ocean until 2017, and we also wish to attract the *Chikyu* to our region. An excellent group of scientific players will ensure that all the themes of the new IODP Science Plan are well covered. There will also be a Resources theme designed to bring together those interested in using *JOIDES Resolution* and *Chikyu* for drilling for 1) stratigraphic holes to help assess petroleum potential, and 2) deep holes to help assess the potential of sea floor polymetallic sulphide deposits. At this moment there are about 80 participants, with 31 from Australia, 19 from USA, 12 from New Zealand, 9 from Japan, and others from Europe and New Caledonia. All funding sources are fully committed. The ANZIC Office has been exceedingly busy in science planning and arranging travel for the participants in conjunction with many partners including Maria Seton, Stephen Gallagher and Chris Hollis.

A call for Expressions of Interest for Australian universities to host and provide the lead Chief Investigator in the necessary bid for ARC/LIEF funding for the next phase of IODP, for funding commencing in January 2014, has passed its 19 September deadline. I am grateful that there is a bid for this demanding and responsible activity, which will be considered by the ANZIC Governing Council soon. We need the support of the Australian geoscience community and some microbiologists to ensure the successful continuation of our exciting involvement in the world's largest cooperative scientific geoscience program. I am confident that we can build a very strong case for ongoing funding, and very much hope that both Australia and New Zealand can be adequately funded to continue the ANZIC alliance. Some excellent news is that the University of Auckland is about to join ANZIC, taking the number of New Zealand institutions in the alliance to five.

A subcommittee of the ANZIC Science Committee has awarded shipboard participants Martin Jutzeler (Expedition 340: Lesser Antilles volcanism and landslides) and Virginia Toy (Expedition 343: Japan Trench Tohoku Earthquake drilling) post-cruise analytical funding to expedite their work. Expressions of Interest from 18 applicants for similar analytical funding to cover work on DSDP, ODP or IODP material that could lead to early publication are being reviewed now, and the results will be considered at the next ANZIC Governing Council meeting at Geoscience Australia on 4 October.

Neville Exon
ANZIC Program Scientist



IODP-MI
INTEGRATED OCEAN DRILLING PROGRAM
MANAGEMENT INTERNATIONAL

SAVE THE DATES!

The Japan Agency for Marine-Earth Science and Technology (JAMSTEC) and IODP Management International (IODP-MI) announce the international planning workshop "CHIKYU+10" to be held April 21-23, 2013 in Tokyo, Japan. The purpose of the workshop is to engage the international community in a discussion of potential future scientific missions using the deep-sea drilling vessel (D/V) *Chikyu* within the context of the new *Illuminating Earth's Past, Present, and Future: The International Ocean Discovery Program Science Plan for 2013-2023* and the post-2013 framework for scientific ocean drilling platform provision and international collaboration. Workshop outcomes will be considered by JAMSTEC in long-range planning for *Chikyu* operations.

Meeting goals, themes, format, and the application process for participation will be widely publicized following a Steering Committee meeting later this year. Early inquiries can be sent to chikyu10@iodp.org

ANZIC Members may send enquiries to [Neville Exon](#)

Mike Coffin, CHIKYU+10 Steering Committee Chair

Kiyoshi Suyehiro, President, IODP Management International

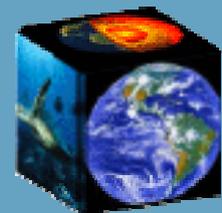
EarthCube End-User Domain Workshop for EarthScope

We invite you to attend this workshop to help the EarthScope community plan for the next generation of cyber infrastructure and provide vital input into NSF's EarthCube program. The "EarthCube End-User Domain Workshop for EarthScope" will be held Oct. 29-30 on the campus of Arizona State University in Tempe Arizona. Participant support (travel, hotel and meals) will be provided for all confirmed participants.

This two-day workshop will assess the current state and needs of the cyberinfrastructure that facilitates realization of EarthScope's science objectives. The workshop will provide timely and necessary guidance in the planning of NSF's EarthCube (<http://earthcube.ning.com/>), a broader geoscience initiative in cyberinfrastructure. Interested members of the geoscience and information science communities are invited. Additional information on the workshop can be found at <http://www.earthscope.org/earthcube>

With invited talks and discussion, the workshop will address:

- EarthScope (ES) science drivers, challenges, and use case scenarios
- EarthScope cyberinfrastructure opportunities and challenges, with applications for EarthCube
- ES simulation opportunities and challenges with broad applications for EarthCube
- ES CI visioning. How can the needs of the EarthScope community mesh with the needs and resources of other communities working within EarthCube?



Apply to attend:

We invite members of relevant communities, especially early career scientists, to apply to attend:

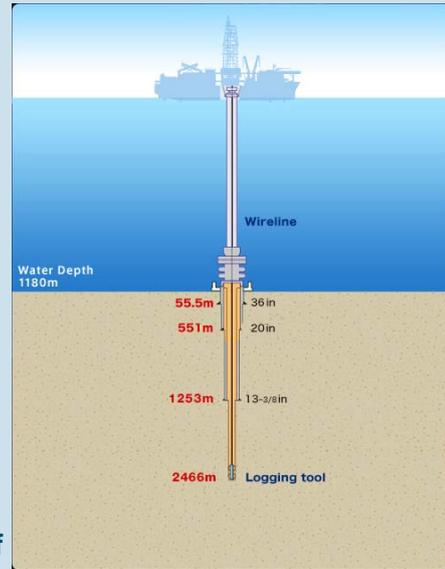
<http://www.earthscope.org/earthcube>

[Mike Gurnis](#), On behalf of the EarthScope Cyberinfrastructure Subcommittee

AT SEA

CONGRATULATIONS CHIKYU

On behalf of all our members, ANZIC would like to congratulate the record breaking team aboard the *Chikyu*. This remarkable achievement by the technical and drilling staff opens new horizons to our scientists and we look forward to reading about the work of the science party, including University of Queensland's Rita Susilawati.



Off Hachinohe, Japan—Scientific deep sea drilling vessel *Chikyu* sets a world new record by drilling down and obtains rock samples from deeper than 2,111 meters below the seafloor off Shimokita Peninsula of Japan in the northwest Pacific Ocean. The Japan Agency for Marine-Earth Science and Technology (JAMSTEC), the implementing organization for scientific expedition aboard the *Chikyu*, announced this achievement on 6th September, 2012.

Chikyu made this achievement during the Deep Coalbed Biosphere expedition, Expedition 337, conducted within the framework of an international marine research program, the Integrated Ocean Drilling Program (IODP). Before *Chikyu* broke the record, the previous deepest hole in the history of scientific ocean drilling reached 2,111 meters into the seafloor, 504B at Costa Rica Rift.

Chikyu is the state-of-the-art scientific research vessel, capable of drilling as much as 10,000 m below sea level. It is designed to reach the deeper part of the Earth such as the mantle, the plate boundary seisomogenic zones and the deep biosphere.

Drilling down to 2,200 m below the seafloor and obtaining high-quality samples from the deeply buried coal formation is the main objective of the expedition. An international science party aboard *Chikyu* has already achieved this aim working jointly with CDEX and operational team.

Samples collected from the target coalbeds have been analyzed in the laboratory aboard *Chikyu* and will continue to be examined after the expedition. The research will provide new insights into the deep life associated with a hydrocarbon system in the deep marine subsurface.

The expedition that started in late July continues coring operations to obtain even deeper rock samples and formation fluids using a new borehole wire-line instrument *in situ*.

For another 3 weeks, the science party on *Chikyu* will continue to explore the deeply buried coal formation, in which microbes may be involved in the formation of natural gas, and to tackle fundamental scientific questions related to the co-evolution of Earth and life.