



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.org.au](http://www.iodp.org.au)

Website: [www.drill.gns.cri.nz](http://www.drill.gns.cri.nz)

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- ***Last Call for Expeditions 350, 351 and 352 on the Izu Bonin-Mariana Arc***

## ***News from the ANZIC Office***

Several really important activities have happened since you received the last Bulletin. The first was the submission of the Australian funding application for the next five years to ARC/LIEF. This is a very strong proposal thanks to the many supporters, and one hopes that the ARC system views it favourably. The basic team of Richard Arculus, Neville Exon and Catherine Beasley worked hard to assemble it, with wonderful support from many of you. Richard Arculus is the lead CI, but we finished up with 30 CIs and PIs, which is the maximum allowed by LIEF. Fifteen Australian universities, two Government institutions and one peak body are involved. Section C, the main justification of the application, is available at <http://iodp.org.au/about/international-ocean-discovery-program-2013-2023/>

It is remarkable that we Australians assembled \$855,000 p.a. from our partners, which enabled us to ask ARC for \$1.8 million p.a. If we completely succeed in this bid, we will have more shipboard places than we had in the present phase of IODP and that is fully appropriate. If both New Zealand and we succeed in our funding bids, the ANZIC partnership will continue and that partnership has been very important. Indeed, ANZIC has helped cooperation between our two countries in marine geoscience beyond IODP, and that has been a great thing. It is worth noting that, even should Australia fail with this bid, we have funding to continue the ANZIC Office for a year, meet our post-cruise obligations to shipboard applicants, and generate a new application.

Another major activity was the Chikyu+10 workshop in Tokyo to help plan the future program of the deep-drilling *Chikyu*, which was attended by 15 Australians and New Zealanders (see initial report below). This will be reported on more fully in the next issue of the ANZIC Bulletin but the initial messages were all positive.

**The ANZIC Marine Geoscience Masterclass has been announced and we are calling for second year geoscience students to apply to attend in Perth in November (see below).**

**The ANZIC Annual Report for 2012 has been completed and is available on our web site (<http://iodp.org.au>). Paper copies have been sent out to key ANZIC players for distribution in our partner institutions. The report illustrates how heavily and successfully involved we are in IODP.**

**As regards shipboard participation, three ANZIC people will board the Southern Alaskan Margin tectonics, climate and sedimentation *JOIDES Resolution* expedition (341) at the end of May. They are Christopher Moy (University of Otago sedimentologist), Maureen Davies (ANU physical properties specialist), and Carol Larson (National Aquarium of New Zealand teacher) who is sailing as an education and outreach officer and will deal with schools around the world.**

**Applications have closed for participation in the 2014 South China Sea *JOIDES Resolution* Expedition 349 for which two Australian applications have been forwarded to USIO. The same applies to the *Chikyu* NanTroSEIZE Stage 3; Plate Boundary Deep Riser Expedition 348 later this year, for which one Australian application has been sent to JAMSTEC. A final call went out to our mailing list this week for applications for three 2014 Izu-Bonin-Mariana Arc Expeditions (350-351) – applications close on 20 May. We are delighted that Richard Arculus of ANU has been selected as a co-chief scientist on Expedition 351 (arc origins).**

**We have sent our mailing list a call for a replacement for Craig Sloss as a sedimentologist on the Baltic Sea Paleoenvironment Expedition 347, to join the science party as it describes and samples core in Bremen in late November. This is a great opportunity for someone interested in the effects of glacial waxing and waning in brackish and non-marine environments. Please think who might gain from such an exciting project and have them contact Stephen Gallagher (03 8344 6513) for more information.**

**A full proposal for IODP drilling of the Naturaliste Plateau Cretaceous sequence is being built by a team headed by Richard Hobbs of Durham University, making use of a report on Naturaliste Plateau drilling from the recent London Cretaceous Workshop. [Pre-proposal 760, led by Darren Grocke also of Durham University, is already in the system]. The primary justification of the drilling is to “provide a well resolved long-term paleotemperature history of high paleolatitudes (60-65°S) spanning the relatively cool conditions of the Albian, the super-greenhouse of the Cenomanian through Santonian, and the return to cooler conditions of the Maastrichtian.”**

**Neville Exon will be on leave from 13 to 29 May, and only in periodic contact with the office. Catherine Beasley will be in the office throughout that time (Tuesday, Wednesday, Thursday mornings – phone 02 6125 3420) and should be your primary contact.**

**Neville Exon and Catherine Beasley**

## CHIKYU +10

Tokyo, Japan- IODP-Management International (IODP-MI) today announced the successful conclusion of the CHIKYU+10 International Workshop held in Tokyo, Japan, from 21-23 April 2013.



The event, convened by the global scientific ocean drilling community and enabled by the Japan Agency for Marine-Earth Science and Technology, focused on Chikyu's explorations for the next decades in pursuit of new knowledge about Earth's past and innovative research into today's global challenges.

"Chikyu will be a keystone of the IODP endeavor for the next decade and beyond, providing the global research community with the capability to reach deep targets inaccessible by any other scientific platform." says Prof. Mike Coffin, University of Tasmania, Australia, and Chair of the CHIKYU+10 Steering Committee.

About 400 scientists and engineers from over 20 countries attended the workshop, including senior officials from funding agencies MEXT (Japan's Ministry of Education, Culture, Sports, Science and Technology) and NSF (U.S. National Science Foundation), representatives of IODP partners, and scientists from 180 prominent universities and other institutions worldwide. The workshop was hosted by CDEX (Center for Deep Earth Exploration of JAMSTEC) assisted by IODP-MI.

Four Co-Chief Scientists of past Chikyu expeditions also made presentations highlighting their teams' research and describing the transformational capabilities Chikyu offers the Earth, ocean, and life sciences communities. Presentations covered not only the first 10 years of successful Chikyu operations, but also Chikyu's continued importance to international scientific ocean drilling research in the next decades.

The workshop focused on five thematic areas identified from short white papers accepted in early 2013: Active Faults, Ocean Crust and Earth's Mantle, Deep Life and Hydrothermal Systems, Continent Formation, and Sediment Secrets.

Thematic discussions highlighted accomplishments of Chikyu's completed expeditions, proposals to use Chikyu's deep riser capability, new ideas submitted from the community, and inspiring keynote talks. Deliberations among researchers will help prioritize projects for Chikyu's next decade of exploration and beyond.

Global climate change, earthquakes, and tsunami generation are some of the most pressing societal research challenges of the 21st century. At the workshop, the scientific community affirmed that Chikyu will continue to play an important role as a key platform for scientific ocean drilling to investigate these phenomena and fundamental questions in Earth, ocean, and life sciences.

# ANZIC MARINE GEOSCIENCE MASTERCLASS, 2- 7 December 2013 Perth, W.A.



The ANZIC Marine Geosciences Masterclass in 2013 will be hosted by CSIRO, University of Western Australia, Curtin University, at the Australian Resources Research Centre, Perth, Western Australia

**Masterclass coordinators:** Dr. Asrar Talukder and Dr. Andrew Ross (both CSIRO)

**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 (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.

## Design:

This course will introduce students to the exciting world of marine geosciences through a broad and challenging 5 day workshop. It will focus on the major science themes of the new 10 year International Ocean Discovery Plan (IODP) science plan (<http://www.iodp.org/science-plan-for-2013-2023>) and will also provide practical experience of marine geoscience using the CSIRO vessel RV *Linnaeus*. It will introduce students to the day-to-day impacts of marine geology on our world.

Students will learn about marine geoscience activities from the office to shipboard scientific parties. Laboratory sessions will provide a brief theoretical introduction to the relevant science, but will focus on hands-on exercises using case studies from IODP and industry. For example, *Advanced Geomechanics* will receive the students in their core lab for a practical class.

The offshore survey will use multibeam echo-sounder, sidescan sonar and 1.5m gravity corer. Pre-survey preparation will focus on marine survey planning. The students will log their gravity core(s) and produce a survey report. The student group will be divided into two teams of 10. Each team will spend half a day aboard the RV *Linnaeus* learning how to acquire acoustic data and surveying an area of seafloor between Perth and Rottnest Island. Core sampling and logging will be done on board. Once back on shore, they will travel to *Advanced Geomechanics* to study shallow cores in their laboratories.

Perth is the centre of the Australian Oil and Gas and Minerals Industries and CSIRO, UWA and Curtin University work extensively with both industries. The three organisations can provide students with a broad overview of the various career options, ranging from academic to applied, that a strong background in marine geosciences can provide. The course will include an informal evening "career" session involving industry representatives. Accommodation has been booked at the University of Western Australia for course attendees.

**Applicants should apply to their Head of School or Department by June 10th, 2013.**

## Masterclass Module Leaders:

**Climate and Ocean Change:** Prof. Malcolm McCulloch (UWA)

**Earth Connections:** Dr. Chris Yeats (CSIRO) and Prof. Richard Arculus (ANU)

**Biosphere connections:** Prof. Lindsay Collins (Curtin University) and Dr. Asrar Talukder (CSIRO)

**Earth in Motion:** Dr. Cedric Griffith (CSIRO)

**Marine Geoscience in the field:** Dr Chris Yeats (CSIRO), Dr. Andrew Ross (CSIRO) and Dr. Iain Parnum (Curtin University)

