



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

Website: www.drill.gns.cri.nz

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News from the ANZIC Office

We have had six good applications for three **2014 Izu-Bonin-Mariana Arc Expeditions** (350-351) – the applications will be ranked by the ANZIC Science Committee and the rankings sent on to USIO. We are delighted that Richard Arculus of ANU has been selected as a co-chief scientist on Expedition 351 (arc origins).

We call again 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.

We are pleased to announce that Trevor Falloon of the University of Tasmania has been granted post-cruise science funding to continue his work on for post-cruise analysis of material from IODP Expedition 345 (Hess Deep Plutonic Crust), under the title *The nature and formation of oceanic crust at fast spreading ridges*, has been approved. Trevor is a key player in the evaluation of this expedition's exciting results, from which a paper was submitted to *Nature* in April. This submission is quick work as the vessel docked in mid-February.

Neville Exon is on leave until 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



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

Please make sure the ANZIC Marine Science Masterclass has been advertised widely to the students in your organisation. It is an incomparable opportunity for a group of excellent undergraduates to develop skills and make contacts in Marine Geoscience.

The details are available on our website at
<http://iodp.org.au/wp-content/uploads/Masterclass-Flyer-2013.pdf>

CORE DISCOVERIES

The [Spring 2013 issue of Core Discoveries](#), the newsletter for U.S. scientific ocean drilling, is now available [online](#). This issue includes an overview of recent deep biosphere research, a preview of results from the Japan Trench Fast Drilling (JFAST) project, a look at how the USIO outfits the *JOIDES Resolution* for an expedition, and updates from the NSF, USIO, and the Chair of USAC. If you would like to subscribe to the print edition of the newsletter, please send an email with your mailing address to mwright@oceanleadership.org.





FULL TIME PhD SCHOLARSHIP AT MACQUARIE UNIVERSITY

Project Name: Grass of the Oceans: quantifying biodiversity, environmental and climatic connectivity from a decade-long capture of Southern Ocean diatoms

A full time PhD Macquarie University Research Excellence Scholarship (MQRES) is available for a suitably qualified candidate to work on the project “Grass of the Oceans: quantifying biodiversity, environmental and climatic connectivity from a decade-long capture of Southern Ocean diatoms” within the Department of Biological Sciences. The overarching project is co-funded by Macquarie University and the Australian Antarctic Division grant to Dr Leanne Armand and will be co-supervised with the associated post-doc Dr Andrés Rigual-Hernández.

An Australian sediment trap program was launched between the Roaring 40's and Furious 50's in 1997. The three aligned sites were defined by varying nutrient, physical and carbon export properties. Diatoms, the grass of the oceans, signify the frontier between the environment and the food web. The decade-long data stream of these microscopic carbon-capture agents, ensnared by the traps, is central to our typifying their biodiversity, identifying weekly, monthly and seasonal cycles, detecting migrations and identifying the connectivity to climatic change integral to future modelling efforts.

The successful PhD student will collaborate with Dr Armand and the postdoctoral researcher Dr Rigual-Hernández in the study of the sediment trap time series. The PhD student will be trained in sample preparation for microscopy analysis, polar diatom identification and statistical analyses. Their work will be focused on one single site to assist with completing the full time-series at all locations.

The outcomes of the work will provide the first evidence of species succession and interannual variability from the Sub-Antarctic Zone in the Australian sector of the Southern Ocean.

For further information and inquiries in the first instance, please contact Dr Leanne Armand and/or Dr Rigual Hernández,
email: leanne.armand@mq.edu.au / andres.rigualhernandez@mq.edu.au, phone: +61 2 9850 8351 / +61 2 9850 6296

The 2013 MQRES full-time stipend rate is \$24,653 pa tax exempt for 3.5 years.

Applicants will need to complete a candidature/scholarship application form and arrange for two academic referee reports to be submitted to the Higher Degree Research Office. Refer to the [Applications](#) page for further application instructions. Macquarie University will advise the successful applicant of entitlements at the time of scholarship offer.

Please quote the appropriate allocation number 2013116 on your application form.