



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: drill.gns.cri.nz

News from the ANZIC Office

The *JOIDES Resolution* Western Pacific Warm Pool Expedition 363 (6 October to 8 December) is very important to our understanding of changes on all scales in global climate (e.g. El Niño – La Niña). It has been joined by scientists Brad Opdyke (ANU sedimentologist) and Jennifer Wurtzel (ANU petrophysicist). Lots of information on the expedition as it unrolls is at <http://joidesresolution.org/node/1746>.

In addition, we have a teacher, Katie Halder (Canning College, Perth), aboard in a public relations role. She is running live interactive video broadcasts to schools and university students in Australia, New Zealand, and around the world. Should you want to book in with Katie for a live video broadcast for a university class, the Request Form is on https://docs.google.com/forms/d/e/1FAIpQLSdrP1wutec52z6o5D73jTQRggMJ_sb0it45YPAroCxb-B7mA/viewform.

IODP Expedition 370 "Temperature Limit of the Deep Biosphere off Muroto" (September 10 to November 10) sailed with Maija Raudsepp (UQ microbiologist) aboard. *Chikyu* was exploring the limits of sub-seafloor life and the biosphere in the proto-thrust zone of the Nankai accretionary prism off Japan. There were overlapping shore-based detailed microbiology activities at Kochi Core Center. According to Nobu Eguchi of JAMSTEC it was very, very successful, with the shore-based science party still working and new findings expected soon. The final coring depth was 1180 mbsf, and the final depth of the completion assembly (temperature observatory) was about 860 mbsf. For more information check <http://www.jamstec.go.jp/chikyu/e/exp370/>

The necessary documentation for an Australasian IODP Planning Workshop to be held at Sydney University in June 2017 is virtually complete. This will be a major regional workshop (SW Pacific, Southern and eastern Indian Oceans) like the earlier, highly successful, Indian Ocean and Southwest Pacific Ocean workshops. The workshop would cover all platform possibilities, but our main aim will be to start the process of writing good proposals to attract *JOIDES Resolution* back into our region around 2022. We will be seeking funding from the major potential sources soon.

Forthcoming IODP expeditions in our region from mid-2017

- Expedition 371 (Tasman Frontier Subduction, Lord Howe Rise, Co-chief Rupert Sutherland, (VUW): July 27 to September 26, 2017. Wanda Stratford (GNS) was appointed as a physical property specialist and we expect other ANZIC appointments soon.
- Expedition 369 (Australia Cretaceous Climate and Tectonics, Naturaliste Plateau): September 26 to November 26, 2017. Lloyd White (Wollongong) was appointed as a sedimentologist and we expect other ANZIC appointments soon.
- Expedition 372 (Creeping Gas Hydrate Slides & Hikurangi margin LWD, Co-chiefs Ingo Pecher, Auckland and Phil Barnes, NIWA): November 26, 2017 to January 4, 2018. ANZIC rankings by Science Committee to be finalized soon
- Expedition 373 (Alternative platform Antarctic Cenozoic Paleoclimate, George V Land and Adélie Land shelf sediments) has been deferred until 2019-20, but our rankings have been forwarded for information.
- Expedition 374 (West Antarctic Ice Sheet Climate, Ross Sea, Co-chief Rob McKay, VUW): January 4 to March 8, 2018. ANZIC rankings have been submitted to JRSO and co-chiefs.
- Expedition 375 (Hikurangi subduction margin, Co-chief Laura Wallace, GNS): March 8 to May 5, 2018. ANZIC rankings by Science Committee to be finalized soon.
- Expedition 376 (Brothers Arc Flux, north of New Zealand, May 5 to July 5, 2018). Cornel de Ronde (GNS) has just been appointed co-chief scientist, a great honour. Applications should be called for soon.
- Expedition 378 (South Pacific Paleogene): October 14 to December 14, 2018
- Expedition 379 (Amundsen Sea Ice Sheet History) January 18 to March 20, 2019

All the applicants for expeditions will be informed by Neville Exon of where they stand soon once that information is available. Our successful applicants will be informed by JRSO.

A flyer for the ECORD Virtual Drillship Experience is attached below. This valuable course in March 2017, may be of interest to those intending to be in Europe at the time. We regret that this program will not attract ANZIC funding.

ANZIC Governing Council is meeting at ANU on 30 November. Council Chair, Geoff Garrett is stepping down as ANZIC Chair in mid-December, and he is being replaced by Ian Poiner, an equally dynamic leader of Australian science. We are delighted that Ian has accepted our invitation to take up the ANZIC chairmanship and we all look forward very much to working with him.

The ANZIC Marine Geoscience Masterclass, is for outstanding second year students. The highly successful Masterclass for 20 students, with generally one position available for each of our university members, will go ahead in New Zealand from 1-11 December with some alterations to the schedule to keep participants on safe ground.

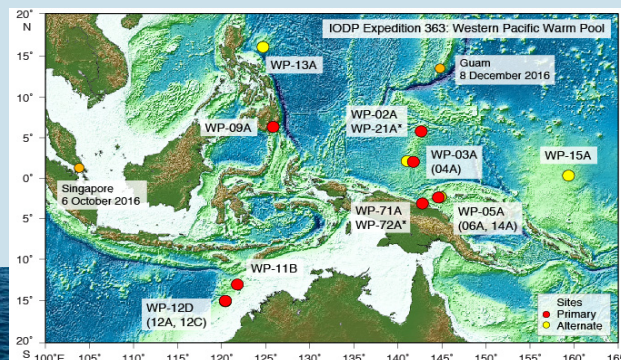
Our sympathy is with New Zealand for the disastrous earthquake, and with Japan for their earthquake – bad but not as bad as New Zealand's.

Neville Exon and Catherine Beasley

AT SEA

Expedition 363: West Pacific Warm Pool

Is past the halfway mark and into the final weeks of a very smoothly functioning expedition. *JOIDES Resolution* will be docking in Guam on December 8th.

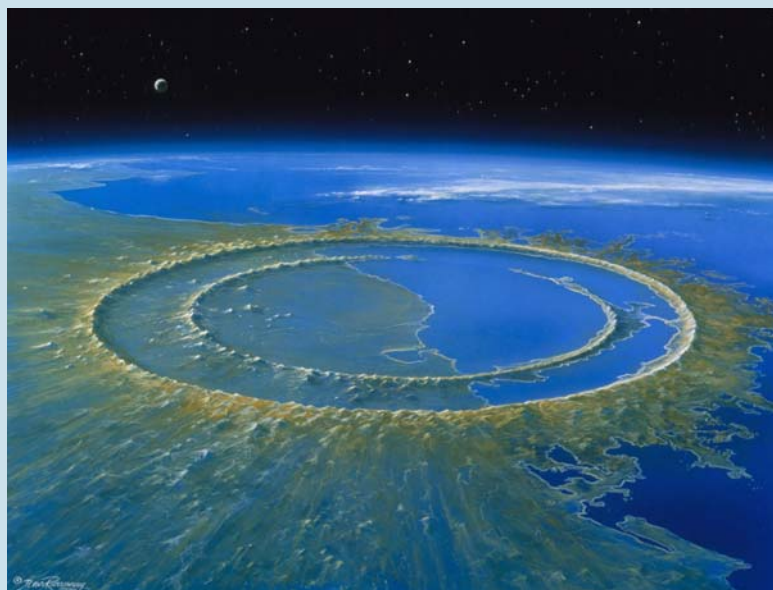


Follow the *JOIDES Resolution* on [Facebook](#) or <https://www.youtube.com/user/theJOIDESResolution> and read daily or weekly reports at: <http://iodp.tamu.edu/scienceops/sitesumm.html>

Expedition 364: Chicxulub Crater has made the news in the UK and the US.

<http://www.bbc.com/news/science-environment-38019604>

http://www.nytimes.com/2016/11/18/science/chicxulub-crater-dinosaur-extinction.html?_r=1



CSIRO Postdoctoral Fellowships - Early Career Researchers in Deep Earth Imaging

- **Develop innovative concepts and tools to image Earth's structure and its resources**
- **Launch your professional career in a collaborative multi-disciplinary science environment**
- **Pursue strategic research at CSIRO, Australia's leading science and technology organisation.**

Launch your Postdoctoral career, extend your professional network and greatly enhance your future in science and technology, while solving some of Australia's most important strategic resource issues. CSIRO's Deep Earth Imaging is one of six new Future Science Platforms and it offers opportunity for emerging scientists in a range of interrelated disciplines to pursue collaborative and independent research as part of a multi-disciplinary, international geoscience research team.

We seek 18 early career specialists from a range of geo-science related fields, including geophysics, geochemistry, geology, data analytics, visualisation, machine learning, applied mathematics and applied physics. As a member of the Platform team you will work with CSIRO scientists and engineers to develop new earth imaging methods with a specific emphasis on accurate subsurface imaging, natural resource prediction and targeting and uncertainty quantification. Together we will build the next generation of earth imaging tools using high performance computing infrastructure and cloud technologies to guide future exploration, discovery and management of Australia's mineral, energy and water resources.

Successful candidates will:

- Conduct top quality innovative research as part of a collaborative team working on one or more of four interrelated themes:
- Geophysical modelling and simulation;
- Geoscience knowledge integration;
- Uncertainty reduction;
- High performance computing and large scale cloud services;
- Effectively communicate their research internally and externally;
- Build innovative solutions to strategic problems of resource discovery and management;
- Develop pathways for application and commercialisation of new intellectual property.

Location: Australia [Kensington WA (up to 16 positions) and Adelaide SA (up to 2 positions)]

Salary: AU\$78k to AU\$89k plus up to 15.4% super

Reference Number: 28221

Term: 3 years

For further information please email dei_fsp@csiro.au or click on the Position Detail link below.

<https://jobs.csiro.au/job/Perth%2C-WA-CSIRO-Postdoctoral-Fellowships-Early-Career-Researchers-in-Deep-Earth-Imaging/373546900/>