Issue 19, 8 November 2012

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

SW PACIFIC IODP WORKSHOP: OUTLINE OF MAIN PROPOSALS

Further to the brief report on this important Workshop in our Bulletin of 18 October, here is a summary of the main IODP proposals that are to be worked on by teams of international scientists as a result of the workshop. A number of new and revised full proposals will be submitted by the next proposal deadline of April 2013, but exactly which of these will be ready remains to be seen. These proposals will have a chance of being drilled in 2015 or 2016 should they be ranked highly enough. Should any of the readers wish to be involved in the writing activity, could they please contact the lead proponent listed.

1. Climate and Ocean Change (Jim Kennett and Rob McKay)

SW Pacific Paleogene Transect Tropics to Antarctica

- Current reconstruction of meridional SST gradient
- CCD history of the South Pacific
- Models of proto Ross Gyre and surface water circulation
- Mode of deep-water circulation and relationship to global climate

Intensity and pattern of Southern Hemisphere winds

Targets

- South Pacific Paleogene Latitude Transect (567: SPLAT) – Debbie Thomas
  - An APL is to be added to drill into oceanic basement at a couple of sites – Richard Arculus?
  - Coulman High (ANDRILL) – Richard Levy
  - Wilkes Land (IODP – MSP) – Carlota Escutia
  - Lord Howe Rise – Jerry Dickens for Climate; Rupert Sutherland overall)
  - Campbell Plateau – Chris Hollis

Campbell Drift – Sandra Kirtland-Turner

Neogene and Quaternary climate and ocean change

- Western Pacific Warm Pool (799) – Yair Rosenthal
- Ross Sea (751) – West Antarctic Ice Sheet history

Sabine & Bougainville Banks history (730) – Fred Taylor

2. Deep Biosphere (Steve D'Hondt and Ken Takai)

- Gulf of Papua (full program) – Jerry Dickens
- DSDP Site 262 (APL), Timor Trough
- Brothers Caldera (APL?)
- Hikurangi Subduction Margin (APL?)

Tonga Trench (APL?)

3. Earth Connections (Mike Gurnis and Richard Arculus Jim Mori and Laura Wallace)

- Formation of LIPS and their impact on the global environment: Greater 'Ontong Java Plateau' – Clive Neal
- Initiation of Subduction and origin of deep water sedimentary basins: Lord Howe Rise and environs – Rupert Sutherland

Structure and dynamics of mantle flow: Australian-Antarctic Discordance – Jo Whittaker?

4. Earth in Motion (Jim Mori and Laura Wallace)

Proposals in the System:

- Hikurangi slow slip - 781-MDP - Riserless Drilling – Laura Wallace
- Hikurangi slow slip - 781A-Full - Observatory Phase – Damien Saffer

Hikurangi deep riser drilling phase (being developed) – Laura Wallace

Ideas for New Proposals:

- Brothers Volcano (Cornel de Ronde)
- Manus Basin hydrothermal systems (Chris Yeats)
- Tuaheni Slides (Ingo Pecher)
- Porangahau Fluid Flow & Slow Slip (Ingo Pecher)

Near Trench Axis drilling-comparative study of Japan, Hikurangi, Costa Rica, Sumatra (Shuichi Kodaira)

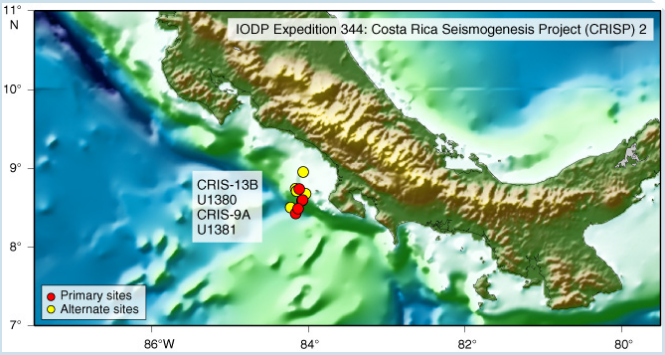
5. Marine Resources (Alex Malahoff and Clinton Foster)

The proposals considered under this theme (which is not in the science plan) are being viewed in the context of (i) adding relevance to already strong science proposals, (ii) prospects for development as complementary project proposals with industry or government co-funding or (iii) opportunities for non-IODP projects in the region, fully funded by industry or government, that will help to keep the drilling platforms viable.

- Gas Hydrates – Hikurangi margin, New Zealand - Ingo Pecher (NZ)
- Deep petroleum-oriented studies – Lord Howe Rise - Riko Hashimoto (GA), Shin'ichi Kuramoto (JAMSTEC/*Chikyu*), David Divins (Ocean Leadership/*JOIDES Resolution*), Rosemary Quinn (GNS)

The Brothers Volcano (Cornel de Ronde) and Manus Basin hydrothermal systems (Chris Yeats) studies also have relevance in this theme although they are covered in the *Earth in Motion* science theme (above).

AT SEA



Expedition 344, CRISP A2

The Costa Rica Seismogenesis Project (CRISP) is designed to elucidate the processes that control nucleation and seismic rupture of large earthquakes at erosional subduction zones. CRISP is located at the only known seismogenic zone at an erosional margin within reach of scientific drilling. Expedition 344 started on 23 October 2012 in Balboa, Panama and is scheduled to end on 11 December in Puntarenas, Costa Rica.
The science party boarded the *JOIDES Resolution* the evening of 23 October 2012 after the vessel had crossed the Panama Canal. The science party includes individuals from 12 IODP member countries and 17 nationalities, including the first scientists from Brazil.

ANZIC Representative:
Alan Baxter
Micropaleontologist (nannofossils)
School of Environmental and Rural Science
University of New England
Australia

European Geosciences Union General Assembly 2013 Vienna | Austria | 07 – 12 April 2013

We are very pleased to announce the start of the Abstract submission to our session entitled:

SSP 1.2 Mesozoic stratigraphy, palaeoceanography and palaeoclimate (sponsored by IAS)

This session focusses on all palaeoceanographic, palaeoclimatic and stratigraphic aspects of the Triassic to Cretaceous. With this broad approach we intend to invite a grand variety of contributions ranging from studies focussing on geochemistry, sedimentology to palaeontology, etc.. The session will potentially be split into different thematic blocks, each focussing on more detailed aspects.
Convener: Jochen Erbacher; Co-Conveners: Thierry Adatte, Micheal Wagreich, Oliver Friedrich, Ulrich Heimhofer, Helmut Weissert, Malcolm B. Hart, Elisabetta Erba, Ian Jarvis, Maria Rose Petrizzo, Jens O. Herrle, Darren R. Gröcke
More details on the session can be found at http://meetingorganizer.copernicus.org/EGU2013/sessionprogramme/SSP
Each Session shows the link Abstract Submission. Using this link you are asked to log in to the Copernicus Office Meeting Organizer. You may submit the text of your contribution as plain text, LaTeX, or MS Word content.
Detailed information on how to submit an abstract can be found at: http://www.egu2013.eu/abstract_management/how_to_submit_an_abstract.html
The deadline for the receipt of Abstracts is 09 Jan 2013. In case you would like to apply for **SUPPORT**, please submit no later than 30 Nov 2012.

IODP INTEGRATED OCEAN DRILLING PROGRAM

Announcing the 23rd International Geophysical Conference & Exhibition

We're pleased to announce the 23rd International Geophysical Conference & Exhibition 2013, taking place in Melbourne's premier event venue, the Melbourne Convention & Exhibition Centre, 11-14 August 2013. This ASEG-PESA hosted conference is a recognised industry forum in which to present and learn about the newest geophysical techniques and practices. The conference is the largest exploration geophysical conference in the southern hemisphere, attracting geophysicists from minerals and hydrocarbon exploration in equal numbers. Read more...

The Australian Science Media Centre has developed a new free online tool, ScienceMediaSavvy.org, to help scientists work with the media and better inform public debate on the major issues of the day. I am writing to you because you are on the Australian Science Media Centre (AusSMC) database as an expert who is willing and able to engage with the public via the mainstream media when your area of expertise is needed. If you were unaware that you were on our database it may be that a colleague or your media manager has recommended you to us.

We would love to have your help in spreading the word about this new resource so please feel free to forward this to any colleagues you think might be interested or to promote it within your department.

ScienceMediaSavvy.org is not intended to replace hands-on media training workshops but will help those of you who are unable to take the time or foot the cost of attending an in-depth media training course or for those who need a refresher. The instant online availability ofScienceMediaSavvy.org will help fill a gap in terms of what is currently available, giving you advice on dealing with the media as you need it, from any internet-enabled computer, smartphone or tablet.

A short video explaining what ScienceMediaSavvy.org is all about is available on YouTube.

A second module on using social media is now being developed in collaboration with communication organisations Econnect and Bridge8 and with financial support from the Federal Government's *Inspiring Australia* program. We are also planning a module for scientists working in controversial or politicised areas of science.

IODP INTEGRATED OCEAN DRILLING PROGRAM

PhD Scholarhips at University of Oklahoma

We are seeking applicants for two 4-year PhD positions in the School of Geology and Geophysics at the University of Oklahoma (Norman, OK). Both positions involve work on an NSF-funded project aimed to investigate sedimentological and geochemical indicators of weathering and climate in modern environments; hence, one position will focus on sedimentology, and one on geochemistry. The students will be funded by a combination of OU teaching assistantships and NSF research assistantships.

Applicants should be highly motivated graduate student researchers able to work both independently and in a team setting, and have the skills necessary to analyze complex data sets. The successful candidates will be expected to contribute to education and outreach activities, present results at scientific conferences, and ultimately publish results in peer-reviewed scientific journals.

Requirements: MS in relevant field (e.g., geological and/or chemical sciences). Fieldwork experience in geological sciences and laboratory research experience in geochemistry is desirable, as is experience in, or willingness to learn quantitative analytical approaches, including statistical analyses.

Interested students should email either Dr. Lynn Soreghan (lsoreg@ou.edu) or Dr. Megan Elwood Madden (melwood@ou.edu) by December 1, 2012.

Grants for National Science Week 2013

The grant round for next year's National Science Week has just opened.

Grants of between $2000 and $25 000 are available for projects with largely non-school based audiences. The total grant pool is $500 000, but $50 000 of that has already been decided (as there were two three-year long grants awarded last year).

Competition is fierce - last year there were 138 applications worth a total of $2.4 million.

Before you apply be sure to familiarise yourself with the Grant Guidelines and other advice for applicants.

Applications are made online, and we suggest not leaving it until the last minute to submit one. The grants system works with Internet Explorer 8 on PC, but may not in other browsers or platforms.

Applications close at 16:00 AEDT on Monday 26 November 2012. National Science Week 2013 will be held from 10 - 18 August.

More Information

See our website for all the latest information.

IODP INTEGRATED OCEAN DRILLING PROGRAM