



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

Please note:

Neville Exon will be out of the office from July 29th and return on August 19th.

Please forward urgent communications to Cath at iodp.administrator.anu.edu.au

News from the ANZIC Office

We are starting to plan a legacy document to outline Australian and New Zealand activities and achievements in IODP, to be printed and put on the web in early 2014, after the present phase of IODP is concluded. It will be not dissimilar to *Full Fathom Five*, an excellent 65 page report prepared by the Australian ODP Office at Sydney University when ODP ended in 2003. Should anyone desire a paper copy of *Full Fathom Five*, please contact Catherine at this office for one.

Our three participants on the *JOIDES Resolution* Southern Alaska Margin tectonics, climate and sedimentation Expedition 341 - Christopher Moy (University of Otago), Maureen Davies (ANU) and Carol Larson (New Zealand National Aquarium, Wellington) - are due to come into port in Valdez on 29 July. They will be replaced immediately on the following Asian Monsoon (Japan Sea) Expedition 346 by Stephen Gallagher (Melbourne University) who will sail as a foraminiferal specialist.

We congratulate Kelsie Dadd (Macquarie University) on being selected as a sedimentologist on the *JOIDES Resolution* South China Sea tectonics Expedition 349, scheduled for early 2014. She aims to study the chemical composition of ash found in the sediment cores at all sites to determine the ash source, the composition of volcanism in the area, and the age of the ash to help place constraints on the biostratigraphic dating.

Chris Yeats (CSIRO) and Stuart Henrys (GNS Science) attended the first *Chikyu* IODP Board Meeting in Yokohama from 23 to 25 July. This meeting was to work on the design of the *Chikyu* drilling program for the next ten years of IODP. This followed the well attended *Chikyu+10* planning meeting in Tokyo in April.

Neville Exon is on leave from 29 July to 16 August, but Catherine will be in the office through that time.

Neville Exon and Catherine Beasley

AT SEA

Expedition 341, Southern Alaskan Margin.

As Expedition 341 nears its end we have had the exciting opportunity to take a look at JOIDES Resoultion first hand, in



good company with ten Victorian High Schools along for the ride. Courtesy of the amazing crew at Questacon, here in Canberra, education officers Carol Larson and Alison Mote led a ship tour , explained IODP's purpose and took questions from students. Special thanks to Questacon's technical staff for their digital wizardy in overcoming issues with the signal strength and continuity.

Questacon education outreach staff have now connected to the JR four times, including two schools sessions and two other groups including WISE (Women in Science and Engineering).



They have reported that they consider the activity highly successful and will be keen to repeat the exercise in the future.

We have one more skype session planned during 341 with Rochedale State High School in Queensland and hope it goes equally well.

Thanks also to Carol and Alison for squeezing our schools in as they are currently kept very busy

Expedition 346, (Asian Monsoon) will be embarking next Monday. This expedition will not be carrying an education/outreach officer but we hope to arrange skyped sessions for University or professional groups with scientists on board.

Several scholarships covering tuition fees and a \$25,000 pa living stipend are available for the *MSc in Energy and Resources Management* at University College London, based in Adelaide. Note that although the course is multidisciplinary, the industry-focussed project in the second year can involve research in a wide variety of areas, including (marine) environmental science, policy or law.

Applications close August 30. Please visit our website for more details about UCL Australia and the scholarships available (<http://www.ucl.ac.uk/australia>).

More specific queries about environmental research opportunities at UCL Australia can also be directed to Dr Craig Styan (c.styan@ucl.ac.uk). In addition, we will soon also be advertising several PhD scholarships, including some focussed on (marine) impacts associated with the Energy and Resources industries. Anyone interested in these should keep an eye on our website and/or contact Craig.

Dr Craig Styan
Senior Lecturer
School of Energy and Resources
UCL Australia
University College London
c.styan@ucl.ac.uk
Tel: +61 (8) 8110 9966 Mobile: 0408 593 107
<http://www.ucl.ac.uk/australia>

PhD Project available immediately (July 2013) until filled

University of Queensland

Bio-eroding Sponges: Using historical records and experimental manipulations to predict future accretion-erosion dynamics on coral reefs.

This project will compare the current and historical importance of sponge mediated bio-erosion by detailed analysis of sediment cores over millennial time scales and surveys of modern reef environments. Manipulative laboratory experiments at the new state-of-the-art experimentation facility, SeaSIM, at the Australian Institute of Marine Science in Townsville will be used to empirically determine the key ecological traits of bio-eroding sponges under future environmental conditions and present-day anthropogenic stressors associated with changes in water quality. Historical and empirical data will be used together to model the effects of future climate change on bio-eroding sponges and the broader coral reef accretion-erosion dynamic.

This PhD project will be jointly supervised by Prof. John Pandolfi and Dr Nicole Webster. In the initial stage of this project, emphasis will be placed on surveying historical sediment cores for evidence of bio-eroding sponges. In the latter stages of the project, empirical data will be obtained from field surveys and manipulative laboratory experiments.

The successful applicant is expected to have completed a recognised undergraduate degree in Science with an Honours degree (or equivalent) in marine biology and/or ecology. Overseas applicants would need to apply for a highly competitive IPRS scholarship – see <http://www.uq.edu.au/grad-school/international-student-scholarships>.

John M. Pandolfi

E-mail: j.pandolfi@uq.edu.au

**Topical sessions of interest to the GeoPRISMS community,
-2013 GSA Meeting, October 27-30, in Denver, CO,
-AGU Meeting, December 9-13 in San Francisco.**

GSA abstract deadline is Tuesday, August 6, 2013.

AGU abstract deadline is also Tuesday August 6, 2013!

- (1) P2:125 Anniversary Pardee Symposium: Advances in Understanding Earth Structure and Process from EarthScope, GSA Geophysics Division, Eugene D. Humphreys, University of Oregon, GSA Mtg
- (2) T203: Evolving Understanding of Extensional Provinces: Advancements and Challenges, GSA Mtg
- (3) OS006: Frontier Science from Extended Continental Shelf Studies, AGU Mtg
- (4) T010: Cratonic lithosphere and dynamics: What can present-day cratonic structure tell us about craton formation and evolution?
- (5) T017: Innovative approaches to constraining lithospheric deformation in space and time, AGU Mtg
- (6) T020: Linking Ductile Deformation with Geochemistry: The Role of Fluids, Melts and Lithology, AGU Mtg
- (7) S017: Initial Science Results of the Cascadia Initiative, AGU Mtg



**THE GEOLOGICAL SOCIETY
OF AMERICA®**

GSA Annual Meeting abstract submission website:

<https://gsa.confex.com/gsa/2013AM/top/index.epl>

AGU FALL MEETING

San Francisco | 9-13 December 2013

AGU Website:

<http://fallmeeting.agu.org/2013/>