**International Ocean Discovery Program**

**CALL FOR APPLICATIONS**

**Apply to participate in**

***JOIDES Resolution* Expeditions**

**Application deadline: 15 April 2015**

**Note:** These expeditions are subject to the availability of funds for these operations.

**SUMATRA SEISMOGENIC ZONE EXPEDITION Aug to Sep 2016**

The Sumatra Seismogenic Zone expedition (IODP Proposal 837-Full & 837-Add) aims to establish (1) the initial and evolving properties of the North Sumatran incoming sediments and (2) their potential effect on seismogenesis, tsunamigenesis, and forearc development for comparison with global examples. The 2004 Mw 9.2 earthquake and tsunami that struck North Sumatra and the Andaman-Nicobar Islands devastated coastal communities around the Indian Ocean. This earthquake showed unexpectedly shallow megathrust slip that was focused beneath the accretionary prism including the distinctive prism plateau offshore North Sumatra. This intriguing seismogenic behavior and forearc structure are not well explained by existing models and by relationships observed at margins where seismogenic slip typically occurs further landward. The correspondence between the 2004 rupture location and the overlying prism plateau, and evidence for a strengthened thick sediment input section suggests that the input materials are key to driving this distinctive slip behavior and long-term forearc structure.

***JOIDES RESOLUTION* EXPEDITION SCHEDULE**: The expedition schedule (<http://iodp.tamu.edu/scienceops/> ) includes links to the individual expedition web pages that provide the original IODP proposal and expedition planning information.

**WHO SHOULD APPLY**: Opportunities exist for researchers (including graduate students) in all specialties – including sedimentologists, structural geologists, paleontologists, biostratigraphers, paleomagnetists, petrophysicists, borehole geophysicists, microbiologists, and inorganic/organic geochemists.

**WHERE TO APPLY**: Applications for participation must be submitted to the appropriate IODP Program Member Office – see <http://iodp.tamu.edu/participants/applytosail.html>