# INTEGRATED OCEAN DRILLING PROGRAM
## United States Implementing Organization

## FY08 Quarterly Report 4

**1 July–30 September 2008**

**NSF Contract No. OCE-0352500**

**Submitted by the USIO**

**to**

**The National Science Foundation**

**and**

**IODP Management International, Inc.**

Integrated Ocean Drilling Program
United States Implementing Organization

**12 December 2008**

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# INTRODUCTION

The organization of this quarterly report reflects activities and deliverables that are outlined in the Integrated Ocean Drilling Program U.S. Implementing Organization (IODP-USIO) FY08 Annual Program Plan as implemented by the USIO, which comprises the Consortium for Ocean Leadership, Inc. (Ocean Leadership), and its partners, Texas A&M University (TAMU) and Lamont-Doherty Earth Observatory (LDEO) of Columbia University.[1]

# MANAGEMENT AND ADMINISTRATION

## CONTRACTUAL ACTIVITIES

### OCEAN LEADERSHIP

#### *NSF CONTRACT OCE-0352500 WITH OCEAN LEADERSHIP*

Ocean Leadership received the following modifications during the reporting period.

- Modification 30: Removed conflicting request submission instructions contained in Clause H.8. Government Furnished Property; approved the FY08 Annual Program Plan and the contract budget reduction to $39,427,884, reflecting a $95,285 decrease in Management and Administrative Fees.
- Modification 31: Corrected a typographical error (deleted $95,285 stated in Modification 30 and replaced it with $95,286); provided incremental funding of $3,166,980 for the FY08 Annual Program Plan, thus fully funding the FY08 Annual Program Plan contract budget of $39,427,884; deleted S. Bohlen and added D. Divins as key personnel; added a new requirement for advance payment request backup documentation effective 1 August 2008.
- Modification 32: Updated Section B.5. Indirect Costs, removing the listed fringe benefits rate on the "Total Direct Labor" base and instructing Ocean Leadership to provide the National Science Foundation (NSF) with fringe benefit costs (as supporting financial data), which will be reviewed during acceptance of Ocean Leadership's annual incurred cost proposal. Approved the draft IODP-USIO FY09 Annual Program Plan submitted on 27 May 2008 with a proposed budget of $60 million and provided incremental funding of $9,239,000 to support FY09 Annual Program Plan activities through 26 November 2008. Approved Ocean Leadership's proposed G&A rate of 34% that was included in the draft FY09 Annual Program Plan.
- Modification 33: U.S. Scientific Ocean Drilling Vessel (SODV).
- Modification 34: Provided incremental funding of $712,599 toward FY09 Annual Program Plan activities.

#### *OCEAN LEADERSHIP SUBCONTRACT JSC 4-03 WITH LDEO*

Ocean Leadership did not issue any modifications during this reporting period.

#### *OCEAN LEADERSHIP SUBCONTRACT JSC 4-02 WITH TAMRF*

Ocean Leadership issued the following modifications during the reporting period.

[1] In this document, references to TAMU include Texas A&M Research Foundation (TAMRF).

- Modification 30: Decreased the FY07 Annual Program Plan budget and incremental funding by the FY07 unobligated carryforward amount of $2,430,839; increased the FY08 Annual Program Plan budget by $2,430,839; provided additional incremental funding of $3,174,995; reduced total estimated costs through FY013 to $409,983,241; approved the FY07 obligated carry forward amount of $5,360,728; decreased the total U.S. Systems Integration Contract costs (SIC) and the FY08 SIC operating budget by $15,000 and increased the total estimated platform operating costs (POC) and the FY08 POC Operating budget by $15,000; and added a new clause allowing for the acceptance of electronic signatures.
- Modification 31: Provided incremental funding of $167,313 toward science operating costs (SOC) Nonoperations, fully funding the FY08 Program Plan budget of $38,288,875.

### TAMRF

#### *CONTRACTS/PROCUREMENT ACTIVITY ($100,000 OR GREATER)*

- 18 September 2008: Purchase of an Operations Time Estimator Software Program ($139,910)

#### *MISCELLANEOUS ACTIVITY*

- 15 August 2008: Submitted the Annual Motor Vehicle Budget Summary to Ocean Leadership.
- 23 September 2008: Submitted a Request for Approval to Ocean Leadership to dispose of property at the closing West Coast Repository (WCR) and East Coast Repository (ECR).
- 30 September 2008: Submitted a Request for Approval to Ocean Leadership to purchase an Inductively-Coupled Plasma-Atomic Emission Spectrometer.

## HEALTH, SAFETY, AND ENVIRONMENT

### TAMU HEADQUARTERS PROJECTS AND ACTIVITIES

**Crisis Management Plan:** Review of the Crisis Management Plan continued, with the finalized plan to be posted the first quarter of FY09.

**Project Safety Analysis:** The Simulated Borehole Test Facility (SBTF) performance evaluation was satisfactorily completed at Riverside campus, and all parties signed off on the test.

**Other Health Issue:** An Automatic External Defibrillator, state-of-the-art medical resuscitation equipment, was installed in the TAMU lobby.

## PERSONNEL STATUS

### OCEAN LEADERSHIP

The following positions were vacated during the quarter:

- President, JOI Division (Steve Bohlen): 31 July 2008

There were no positions opened, advertised, or filled during the quarter.

### LDEO

There were no positions vacated, opened, advertised, or filled during the quarter.

### TAMU

The following positions were vacated during the quarter:

- Research Assistant (Matt Butler): 16 July 2008
- System Analyst I (James Slone): 18 July 2008
- Administrative Coordinator (Agatha Moy): 8 August 2008
- Systems Administrator (David Kratz): 11 August 2008
- Systems Analyst I (Irina Goll): 8 August 2008
- Production Editor (Nancy Luedke): 31 August 2008
- Research Associate (Derryl Schroeder): 31 August 2008
- Associate Research Engineer (Bob Aduddell): 26 September 2008
- Temporary Research Assistant (Bruce Horan): 30 September 2008
- Temporary Research Assistant (Susan Andershock): 30 September 2008
- Temporary Research Assistant (Yasmin Yabyabin): 30 September 2008

The following positions were opened and advertised during the quarter:

- Communications Specialists (3): 22 July 2008
- Senior Marine Instrumentation Specialist: 23 July 2008
- Research Assistant: 23 July 2008
- Research Associate: 24 July 2008
- Assistant Research Specialist: 2 September 2008

There were no positions filled during the quarter.

# TECHNICAL, ENGINEERING, AND SCIENCE SUPPORT

## IODP-USIO EXPEDITION SCHEDULE

The schedule below was in effect for planning activities during the quarter. However, in September 2008, it became clear that the ship would not be delivered in time for international operations to begin in November 2008. A new delivery date of March 2009 was determined and the main planning effort at the end of the quarter responded to this change, including working with the Operations Task Force (OTF) to develop a revised expedition schedule.

| Expedition | | Port (Origin) | Dates[1, 2] | Total Days (Port/Sea) | Days at Sea (Transit/Ops) | Co-Chief Scientists | USIO Contact(s)[3] |
|---|---|---|---|---|---|---|---|
| Deployment, mobilization, sea trials, transit[4] | NA | Singapore | 28 August–12 November 2008 | 76 (45/31) | 24/7 | NA | TAMU: J. Baldauf<br>LDEO: E. Meissner |
| Canterbury Basin | 317 | Wellington, New Zealand | 12 November–4 January 2009 | 53 (6/47) | 2/45 | C. Fulthorpe, K. Hoyanagi | TAMU: J. Geldmacher*<br>LDEO: G. Guerin^ |
| Wilkes Land[5] | 318 | Wellington, New Zealand | 4 January–9 March 2009 | 64 (5/59) | 16/43 | C. Escutia, H. Brinkhuis | TAMU: A. Klaus*<br>LDEO: T. Williams^ |
| Pacific Equatorial Age Transect (PEAT)[6] | 320 | Wellington, New Zealand | 9 March–9 May 2009 | 61 (5/56) | 23/33 | H. Pälike, N. Ahagon | TAMU: K. Gamage*<br>LDEO: H. Evans^ |
| PEAT/Juan de Fuca Remedial Cementing[7] | 321 | Honolulu, Hawaii | 9 May–9 July 2009 | 61 (5/56) | 21/35 | M. Lyle, I. Raffi | TAMU: C. Zarikian*<br>LDEO: A. Malinverno^ |

Notes:

[1] Dates for expeditions may be adjusted pending final vessel delivery date from shipyard or non-IODP activities.

[2] The start date reflects the initial port call day. The vessel will sail when ready.

[3] The USIO contact list includes both the Expedition Project Manager (*), the primary contact for the expedition, and the Logging Staff Scientist (^). In addition, further expedition information is available at www.iodp-usio.org.

[4] An intermediate Darwin, Australia, port call is targeted for approximately 19 and 20 October 2008. Sea trials will be completed at Deep Sea Drilling Project Site 588.

[5] Wilkes Land activities include completion of the Adelie Drift project.

[6] Scientists will embark the vessel at Tahiti, French Polynesia, on approximately 18 March 2009.

[7] Expedition will consist of operations in both the Equatorial Pacific (30 days) and Juan de Fuca Ridge (5 days). Scientists are tentatively targeted to disembark the vessel in San Diego, California, on approximately 27 June 2009.

## EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES

### IODP-USIO CANTERBURY BASIN EXPEDITION

**Expedition Planning:** Territorial clearance was obtained to operate in New Zealand waters. Because of potential shallow gas hazards associated with Canterbury Basin drilling, we sought and completed negotiations for a hydrocarbon gas specialist to sail on the expedition. Science and research planning continued with the science party. The communication plan for the expedition was finalized and an educator was selected to sail during the expedition. The Environmental Protection and Safety Panel (EPSP) recommended approval of two alternate sites.

**Expedition Staffing:** One scientist withdrew from the expedition and a potential replacement was identified**.**

### IODP-USIO WILKES LAND EXPEDITION

**Expedition Planning:** EPSP recommended approval of new alternate sites. Effort continued toward locating a weather/ice observer and forecasting services for the expedition. Draft communication and education plans were developed and review of the plans began. Science and research planning with the science party was initiated.

### IODP-USIO Pacific Equatorial Age Transect Expeditions

**Expedition Planning:** The revised *Scientific Prospectus* was published. Science and research planning with the science party was initiated.

## Projects and Other Activities

### Common Downhole Data Acquisition System

Development of the new Common Downhole Data Acquisition (CDAQ) system was completed, and a successful acceptance test with external participation was conducted in July 2008. The CDAQ is designed to work with most IODP and relevant third-party downhole tools, including temperature and pressure tool and pressure core or fluid samplers; however, the firmware must be configured for each tool and it is currently only configured for use with the new Sediment Temperature (SET) tool.

The CDAQ acceptance team concluded that the system has the potential to serve as the foundation for a range of downhole tools in the future and recommended that the capability for the CDAQ system be advertised to the scientific community. P. Flemings (Professor, Jackson Chair of Geosystems, University of Texas at Austin), chairman of the CDAQ acceptance team, further commented, "My one suggestion is that you advertise to the scientific community the capability for this system as soon as possible (perhaps through a Web site?). I envision that third-party developers may build off your design (as I am sure we will). This is a great example of designing a tool that will have broad impact and be picked up by a range of users."

### Downhole Sensor Sub and Remote Memory Module

Data transmission and recording problems during testing conducted in March 2008 were traced to an intermittent fault in the cable connector between the tool and the surface box. Modifications were made and testing was rescheduled for September 2008. The presumptive last land test was postponed because of hurricane damage to the test facility. The rig at the test facility must be recertified prior to testing and the next availability for the final land test is not known at this time.

### Instrumented Water Sampler

The overall design and most of the motor control design and drawing package for the Instrumented Water Sampler were completed by summer 2008. However, the tool was not completed because the project leader resigned; the project has been suspended and will not continue at this time because of a lack of staff and funding. All drawings and documentation were archived for future use.

### Lockable Flapper Valve Project

The purpose of the lockable flapper valve (LFV) is to prevent fluids from backflowing up through the drill pipe during logging operations. The current design presents a potential obstacle during logging operations because a prematurely closed LFV could snag the logging cable and tools as they are being retrieved. The goal of the LFV project is to modify the valve's design to minimize the risk of this problem occurring during future IODP operations.

Preliminary land tests were conducted at Schlumberger in Webster, Texas, but did not reproduce the premature LFV closure problem. Hence, the initially planned redesign of the entire system was abandoned in favor of a modest improvement using a simple sleeve system to maintain the

open position of the valve during logging operations. Plans were made for Schlumberger engineers to evaluate this sleeve design with USIO oversight during FY09 and determine its feasibility for use on future USIO expeditions.

### METROLOGY LABORATORY (CALIBRATION LABORATORY)

Acceptance testing for the Metrology Laboratory was conducted in August 2008. The acceptance team was chaired by J. Germaine (Massachusetts Institute of Technology). Temperature and pressure calibration equipment and procedures were demonstrated to the acceptance team. The facility and procedures were accepted with suggestions for future improvements to data storage.

### SCHLUMBERGER TELEMETRY PROJECT

The final stage of the Schlumberger telemetry project was successfully concluded with a bench test in Webster, Texas, in which a simulated future USIO tool demonstrated real-time communication with the Schlumberger telemetry system. This generic USIO-Schlumberger toolstring communication mechanism will allow the Multifunction Telemetry Module, the USIO's next-generation telemetry system, to run any combination of USIO tools in one logging pass with Schlumberger tools and Schlumberger telemetry.

### SEDIMENT TEMPERATURE TOOL

Parts for five SET tool sets were ordered and received, and we began preparing two tools for deployment on the *JOIDES Resolution* shakedown cruise and the first Phase 2 expeditions.

### SIMULATED BOREHOLE TEST FACILITY

The SBTF was completed and acceptance testing was initiated with a team chaired by a representative from the TAMU College of Geosciences. The linear encoder failed during acceptance testing, causing the final phase of the testing to be postponed until the encoder could be replaced or repaired. The majority of the SBTF was accepted and acceptance of the final portion of the facility will take place in FY09 if and when time and funding becomes available. Given the lack of resources, the SBTF is unlikely to be used for tool testing in the foreseeable future.

# ENGINEERING DEVELOPMENT

There are no Engineering Development deliverables scheduled for FY08.

# DATA MANAGEMENT

## PROJECTS AND OTHER ACTIVITIES

With the exception of items specified below, data management activities are currently supported by the SODV Project and are therefore not reported here.

### INFORMATION TECHNOLOGY ASSESSMENT

During the months of August and September 2008, members of the TAMU staff were engaged in an information technology (IT) assessment contracted by Ocean Leadership to Krenek Consulting, LLC. The main goals of the assessment were to (a) look for ways to improve services, and (b) provide feedback to Ocean Leadership on how work is done in the areas of IT support, applications development, and data management. Interviews were conducted with staff

representing two groups—staff in the three areas being assessed and users from the other functional sections within TAMU. In-depth review meetings were held with individuals from the three functional groups being assessed, and written documentation was provided. Krenek Consulting provided a report to Ocean Leadership at the end of September 2008.

### Inventory Asset Management System

Work continued on the final Inventory Asset Management System module (i.e., property).

### Log Database Upgrade

Center for Deep Earth Exploration (CDEX) agreed to provide metadata on nonmoratorium log data for inclusion in the log database. Data files will remain on CDEX servers and the log database will allow users to locate and access these data via a CDEX uniform resource locator (URL). USIO and CDEX staff continued working to coordinate data and metadata formats to realize this integration.

## IODP Databases

### Janus Database

Scanned images of close-up photos from Ocean Drilling Program (ODP) Legs 146–210 were sent to the National Geophysical Data Center (NGDC). In addition, close-up photos from Deep Sea Drilling Project (DSDP) Legs 48–96 were scanned, added to the Janus database, and sent to NGDC.

### Log Database

European Consortium for Ocean Research Drilling (ECORD) Science Operator (ESO) and USIO personnel worked together to reprocess standard and Formation MicroScanner data from IODP Expedition 302. These data are now available to the public in the IODP online log database.

## IODP Database Data Requests

### Janus Database

| Top 10 Countries Accessing Janus Web Database* | | |
|---|---|---|
| **Rank** | **Country** | **Visitor Sessions** |
| 1 | United States | 6,357 |
| 2 | Germany | 570 |
| 3 | Japan | 401 |
| 4 | United Kingdom | 342 |
| 5 | China | 166 |
| 6 | Norway | 136 |
| 7 | France | 120 |
| 8 | The Netherlands | 105 |
| 9 | Australia | 104 |
| 10 | Canada | 84 |
| | All others | 930 |
| | **Total** | **9,315** |

*Excluding access from TAMU.

| Top 20 Janus Web Queries* | | |
|---|---|---|
| **Rank** | **Query** | **Uploads** |
| 1 | Sample report | 1,395 |
| 2 | Core photos | 1,306 |
| 3 | D tube | 1,176 |
| 4 | Site summary | 759 |
| 5 | Sample requests | 628 |
| 6 | Core summary | 604 |
| 7 | Hole trivia | 451 |
| 8 | Hole summary | 253 |
| 9 | Age model | 248 |
| 10 | Prime data images | 231 |
| 11 | Moisture and density (MAD) | 213 |
| 12 | Point calculator | 209 |
| 13 | Bulk density (GRA) | 208 |
| 14 | Core summary old | 199 |
| 15 | Smear slide | 196 |
| 16 | Magnetic susceptibility loop (MSL) | 179 |
| 17 | Leg summary | 177 |
| 18 | Chemistry–carbonates | 171 |
| 19 | Corelog | 143 |
| 20 | Sample invest | 136 |
| | Others | 1,885 |
| | **Total** | **10,767** |

*Excluding access from TAMU.

| Other Web Statistics* | | |
|---|---|---|
| Database query hits | | |
| | Entire site (successful) | 45,847 |
| | Average per day | 498 |
| Visitor sessions | | |
| | Total number of visitor sessions | 9,315 |
| | Average per day | 101 |
| | Average length of visit | 20:55 |
| | International visitor sessions | 31.70% |
| | Visitor sessions of unknown origin | 0.04% |
| | Visitor sessions from United States | 68.25% |
| Visitors | | |
| | Unique visitors | 2,768 |
| | Visitors who only visited once | 1,995 |
| | Visitors who visited more than once | 773 |
| | Average visits per visitor | 3.37 |

*Excluding access from TAMU.

| Data Requests to Data Librarian* | |
|---|---|
| **Requests** | **Total** |
| ***Country:*** | |
| United States | 6 |
| United Kingdom | 5 |
| Australia | 1 |
| Canada | 1 |
| The Netherlands | 1 |
| Turkey | 1 |
| **Total** | **15** |
| ***Data:*** | |
| Photo/images | 6 |
| Seismic | 2 |
| DSDP data | 2 |
| GRAPE | 1 |
| Texture | 1 |
| Lithology | 1 |
| Hole data | 1 |
| **Total** | **15** |

*Excluding access from TAMU.

## LOG DATABASE

| Top 10 Countries Accessing Log Web Database* | | |
|---|---|---|
| **Rank** | **Country** | **Visitor Sessions** |
| 1 | United States | 1,371 |
| 2 | Japan | 100 |
| 3 | United Kingdom | 85 |
| 4 | Germany | 61 |
| 5 | France | 49 |
| 6 | Canada | 38 |
| 7 | Italy | 44 |
| 8 | The Netherlands | 20 |
| 9 | Australia | 28 |
| 10 | India | 5 |
| | All others | 935 |
| | **Total** | **2,736** |

*Excluding access from LDEO.

| Other Log Web Statistics* | | |
|---|---|---|
| Database query hits | | |
| | Entire site (successful) | 10,332 |
| | Average per day | 111.67 |
| Visitor sessions | | |
| | Total number of visitor sessions | 2,736 |
| | Average per day | 29 |
| | Average length of visit | 1:37 |
| | International visitor sessions | 15.72% |
| | Visitor sessions of unknown origin | 34.17% |
| | Visitor sessions from United States | 50.11% |
| Visitors | | |
| | Unique visitors | 1,455 |
| | Visitors who only visited once | 1,117 |
| | Visitors who visited more than once | 394 |
| | Average visits per visitor | 1.88 |

*Excluding access from LDEO.

| Data Requests to Log Data Supervisor | | |
|---|---|---|
| **Expedition** | **Request Number, Name, Affiliation, Country** | **Type of Data** |
| | There were no data requests for this period. | |

## IODP-USIO WEB SERVICES

Main activities during this quarter included finalizing the School of Rock 2008 Web site, creating Science Party photo galleries for Expeditions 317 and 318, working on a Web portal for the *JOIDES Resolution*, establishing a metadata scheme for public relations photos, participating in the IT assessment, coordinating production of new merchandise for the ship's Stores, updating the SODV conversion movie on Ocean Leadership's YouTube channel, and conducting Web orientations for new staff. In addition, the Web Administrator assisted with compiling the revised Crisis Management Plan, interviewed Teacher-at-Sea candidates for Expedition 317, and hosted and networked with R. Johnson (The University Corporation for Atmospheric Research) on educational Web sites.

### WEB SITE STATISTICS

Where possible, visits by USIO employees and search engine spiders were filtered out. A change in the analysis process to exclude spider page views was instituted in August 2008. This will result in a drop in the page views reported, which will more accurately reflect human traffic. Partial or no statistics were collected from 12 to 14 September 2008 because all servers were shut down in preparation for and during Hurricane Ike.

### *USIO WEB SITE*

The USIO Web site is hosted at TAMU, LDEO, and Ocean Leadership.

| FY08 Q4 USIO Web Site | | | | |
|---|---|---|---|---|
| **Parameter** | **www.iodp-usio.org** | **iodp.ldeo.columbia.edu** | **iodp.tamu.edu** | **Total** |
| Page views | 13,396 | 10,332 | 249,067 | 272,795 |
| Site visits | 8,103 | 2,736 | 41,542 | 52,381 |

| New and updated Web pages | Release date | URL |
|---|---|---|
| Participants: Laboratory safety and HazMat memo | July 2008 | http://iodp.tamu.edu/participants/before_exp.html |
| Participants: Preparation/packing checklist | Aug 2008 | http://iodp.tamu.edu/participants/checklist.html |
| Publications: Manuscript copyright form | Aug 2008 | http://iodp.tamu.edu/publications/manuscripts/ |
| Newsroom: Photo gallery: Expedition 317 scientists | Aug 2008 | http://iodp.tamu.edu/publicinfo/gallery/exp317 |
| Newsroom: Photo gallery: Expedition 318 scientists | Aug 2008 | http://iodp.tamu.edu/publicinfo/gallery/exp318 |
| Environmental Impact Statement | Aug 2008 | http://www.iodp-usio.org/Publications/ |
| Participants: Expedition 317 physical | Aug 2008 | http://iodp.tamu.edu/participants/before_exp.html |
| Participants: Expedition 318 physical | Aug 2008 | http://iodp.tamu.edu/participants/before_exp.html |
| Participants: Foot Protection Policy | Aug 2008 | http://iodp.tamu.edu/participants/before_exp.html |
| Participants: Box Inspections Policy | Sept 2008 | http://iodp.tamu.edu/participants/before_exp.html |
| Curation: Repositories: GCR: SAFOD cores | Sept 2008 | http://iodp.tamu.edu/curation/gcr/safod/ |
| Curation: Repositories: ECR/WCR closings | Sept 2008 | http://iodp.tamu.edu/curation/repositories.html |
| Curation: Repositories: GCR update | Sept 2008 | http://iodp.tamu.edu/curation/gcr/ |
| *JOIDES Resolution* Web portal | ongoing | http://ship.iodp.tamu.edu/ (for shipboard use) |

### *IODP PUBLICATIONS WEB SITE*

The IODP Publications Web site is hosted at TAMU. New online publications are shown in the "Publications" section of this report.

| FY08 Q4 IODP Publications Web Site | |
|---|---|
| **Parameter** | **publications.iodp.org** |
| Page views | 107,651 |
| Site visits | 15,095 |

### *U.S. IODP EDUCATIONAL WEB SITES*

| FY08 Q4 Deep Earth Academy Web Sites* | | |
|---|---|---|
| **Web domain** | **www.joiscience.org/learning** | **www.oceanleadership.org/learning** |
| Page views | 1,273 | 10,188 |

*Ocean Leadership's educational Web sites are funded jointly by the USIO and USSSP.

### *LEGACY WEB SITES*

The ODP Science Operator Web site and the DSDP Publications Web site are hosted at TAMU. The ODP Legacy Web site is hosted at Ocean Leadership.

| | FY08 Q4 ODP Web Site | | | FY08 Q4 DSDP Web Site |
|---|---|---|---|---|
| **Parameter** | **www-odp.tamu.edu** | **www.odplegacy.org** | **Total ODP** | **www.deepseadrilling.org** |
| Page views | 1,614,757 | 8,861 | 1,623,618 | 107,192 |
| Site visits | 206,115 | 3,327 | 209,442 | 12,734 |

# CORE CURATION

## SAMPLE REQUESTS

All core sample requests were handled by the Bremen Core Repository (BCR), Gulf Coast Repository (GCR), and Kochi Core Center (KCC).

| IODP Expedition/ Repository | Visitors | Request Number, Name, Country | Number of Samples |
|---|---|---|---|
| ***Gulf Coast Repository:*** | | | |
| | | 21590A, Hays, USA | 51 |
| | | 21592A, Flores, Spain | 358 |
| | 1 | 21598A, Hogan, USA | 28 |
| | 1 | 21086B, Hull, USA | 1,799 |
| | | 21307B, Dunbar, New Zealand | 144 |
| | | 20721D, Kirtland, USA | 8 |
| | | 21567A, Davies, Canada | 7 |
| | | 21599A, Sharma, USA | 8 |
| | | 21588A, Cardenas, USA | 14 |
| | | 21519A, Jordan,Japan | 10 |
| | | 21584A, Teagle, United Kingdom | 7 |
| | | 20236C, Henderiks, Sweden | 26 |
| | | 21568A, Yamazaki, Japan | 133 |
| | | 21581A, Westerhold, Germany | 54 |
| | | 21544A, Sexton, USA | 182 |
| | | 20579B, Jorgensen, Germany | 31 |
| | | 21614A, Pusz, USA | 145 |
| | | 21614B, Pusz, USA | 130 |
| | 1 | 21564A, Firth, USA | 0 |
| | | 21219C, Scott, New Zealand | 7 |
| | | 21561B, Ravizza, USA | 33 |
| | | 21602A, Scott, New Zealand | 7 |
| | | 21274C, Groenveld, Germany | 105 |
| | | 21209B, Wei, Taiwan | 118 |
| | | 21611A, Pyle, United Kingdom | 8 |
| | | 21613A, Martinez-Boti, Spain | 90 |
| | | 21540B, Chun, USA | 39 |
| | | 21132E, Tripati, United Kingdom | 757 |
| | | 21461A, Voigt, Germany | 459 |
| | 1 | 21639A, Wade, USA | 24 |
| | | 21567A, Davies, Canada | 5 |
| | | 21637A, Rickaby, United Kingdom | 4 |
| | 1 | 21644A, Tice, USA | 4 |
| | 1 | 21633A, Firth, USA | 7 |
| | | 21520A, Suto, Japan | 316 |
| | 41 | Educational Tours (4) | No samples |
| | 33 | Public Relations Tours (2) | No samples |
| Total science | **6** | **35** | **5,118** |
| Total education: | **41** | | |
| Total PR: | **33** | | |
| **Total:** | **80** | **35** | **5,118** |

## DSDP/ODP Core Redistribution project

The ECR and WCR were officially closed on 30 September 2008, with the last containers from WCR and ECR to GCR and from GCR to KCC shipped the last week of September. The BCR racked all core received during the quarter; the KCC and the GCR will rack the remainder of their redistributed core during the first quarter of FY09.

# PUBLICATIONS

## IODP-USIO Reports

### FY08 Q3 IODP Quarterly Report

The IODP-USIO report for the third quarter of FY08 (April–June 2008) was submitted to the NSF and the IODP central management office (IODP Management International, Inc. [IODP-MI]) on 14 August 2008.

### FY08 Annual Report

Production of the IODP-USIO FY08 Annual Report was initiated with planning meetings and development of a table of contents, design template, production workflow chart, and production schedule. Photographs and graphic images were collected for potential use in the report, and efforts began toward developing the first draft of the report's contents.

### FY09 Annual Program Plan

On 8 August 2008, the USIO submitted to IODP-MI and NSF for review and evaluation a revised version of the IODP-USIO FY09 Annual Program Plan for SOC and POC.

The IODP-USIO FY09 Annual Program Plan consists of requests for SOC Nonoperations and POC costs of non-SODV mobilization activities; SOC Operations costs; IODP Expedition 317 (Canterbury Basin), IODP Expedition 320 (Wilkes Land Expedition), Pacific Equatorial Age Transect (PEAT) Expedition 1/Juan de Fuca Remedial Cementing, and PEAT Expedition 2; long–lead time planning costs for expeditions proposed for FY10; and continuing SOC shore-based activities during FY09. The IODP-USIO FY09 Annual Program Plan budget totals $66,289,264, with $3,614,815 in SOC Nonoperations requested from IODP-MI and $8,019,967 in SOC Operations and $54,654,481 in POC requested from NSF.

On 13 August 2008, the USIO submitted to NSF a revised version of the Appendix to the FY08 Annual Program Plan for SIC. The Appendix to the IODP-USIO FY09 Annual Program Plan outlines requests related to the IODP-USIO U.S. Systems Integration Contract, which include costs that cover USIO efforts for education and outreach and associated management and administrative support. The FY09 Annual Program Plan Appendix to NSF includes a SIC budget totaling $896,893 and also provides SOC Operations, SOC Nonoperations, and POC budget details.

### 2008 Ocean Drilling Citation Report

The 2008 study of the Ocean Drilling Citation Database, which in February 2008 contained 23,814 citation records related to DSDP, ODP, and IODP, was produced this quarter. The study is available online at http://iodp.tamu.edu/publications/citations/AGI_study.pdf. The Ocean Drilling Citation Database is produced by the American Geological Institute (AGI) in collaboration with the USIO. Compilation of this database began in 1999, and the database has

been online since August 2002. The first citation records related to IODP were included in the database in 2006.

The records in the Ocean Drilling Citation Database provide information on how Program-related research is being disseminated into the scientific community through publications. Beginning in 1999, the Publication Services Department at ODP and, since 2004, the IODP Publication Services Department has produced annual studies of the Ocean Drilling Citation Database. Each annual study is based on the data that exists in the database as of February of each calendar year. The results of these annual studies have been included in panel reports and have been used to track Program publication trends, and individual reports have been provided to member countries on request (contact CitationStats@iodp.tamu.edu). IODP funding agencies, implementing organizations (IOs), Program Member Offices, or individual member countries may request customized reports at any time.

## IODP Scientific Publications

| Publication | Release Date | Digital Object Identifier | Comments |
|---|---|---|---|
| ***Scientific Prospectus:*** | | | |
| Expeditions 320/321 (Pacific Equatorial Age Transect) | August 2008 | 10.2204/iodp.sp.320321.2008 | |
| ***Proceedings of the Integrated Ocean Drilling Program:*** | | | |
| **Volume 301** | | | |
| Data report: specific surface area and physical properties of subsurface basalt samples from the east flank of Juan de Fuca Ridge | 24 September 2008 | 10.2204/iodp.proc.301.205.2008 | |
| **Volume 308** | | | |
| Data report: consolidation characteristics of sediments from IODP Expedition 308, Ursa Basin, Gulf of Mexico | 1 July 2008 | 10.2204/iodp.proc.308.204.2008 | |
| Data report: isotope compositions of sedimentary organic carbon and total nitrogen from Brazos-Trinity Basin IV (Sites U1319 and U1320) and Ursa Basin (Sites U1322 and U1324), deepwater Gulf of Mexico | 3 September 2008 | 10.2204/iodp.proc.308.208.2008 | |

## IODP Scientific Publication Deadline Extension Requests

The IODP Sample, Data, and Obligations Policy requires all Science Party members to conduct research and publish the results of their work. To fulfill this obligation, scientists must have their papers published in a peer-reviewed scientific journal or book that publishes in English, or as a peer-reviewed data report in the *Proceedings of the Integrated Ocean Drilling Program.* Manuscripts must be submitted within 20 months postmoratorium (26 months for synthesis papers). Science Party members may request a deadline extension of up to one year. The Platform Curator reviews and approves these extension requests, and IODP Publication Services monitors fulfillment of the publishing obligation. The new table below shows the current status of deadline extension requests. Tables in subsequent reports will also show quarterly activity.

| Expedition | Initial submission deadline (20 months postmoratorium) | Deadline extensions for papers/data reports | | Synthesis submission deadline (26 months postmoratorium | Deadline extensions for synthesis papers | |
|---|---|---|---|---|---|---|
| | | Number approved | Number fulfilled | | Number approved | Number fulfilled |
| 301 | 20 April 2007 | | | 22 October 2007 | 1 | 1 |
| 302 | 23 July 2007 | | | 21 January 2008 | 1 | 1 |
| 304/305 | 4 February 2008 | 13 | 5 | 4 August 2008 | 1 | |
| 308 | 7 March 2008 | 9 | 6 | 8 September 2008 | 1 | |
| 303/306 | 9 May 2008 | 12 | 2 | 10 November 2008 | | |
| 307 | 13 June 2008 | 4 | 2 | 15 December 2008 | | |
| 311 | 27 June 2008 | 12 | 1 | 29 December 2008 | | |
| 309/312 | 28 August 2008 | 9 | 3 | 27 February 2009 | | |
| 310 | 4 November 2008 | | | 4 May 2009 | | |

## SCIENTIFIC PUBLICATION DISTRIBUTION

| Publication | Number Distributed |
|---|---|
| **IODP Publications:** | |
| *Proceedings of the Integrated Ocean Drilling Program* Expedition Report DVDs | 30 |
| **ODP Publications:** | |
| *Proceedings of the Ocean Drilling Program, Initial Reports* | 13 |
| *Proceedings of the Ocean Drilling Program, Scientific Results* | 5 |

## IODP DIGITAL OBJECT IDENTIFIERS

IODP is a member of CrossRef, the official digital object identifier (DOI) registration agency for scholarly and professional publications. All IODP scientific reports and publications are registered with CrossRef and assigned a unique DOI that facilitates online access. DOIs have also been assigned to ODP and DSDP scientific reports and publications. CrossRef tracks the number of times a publication is accessed, or resolved, through the DOI system. Statistics for the fourth quarter are shown in the table below.

| Reports and Publications | DOI Prefix | Number of Resolutions | | | |
|---|---|---|---|---|---|
| | | July 2008 | August 2008 | September 2008 | FY08 Q4 Total |
| **IODP** | 10.2204 | 3,272 | 2,370 | 2,707 | 8,349 |
| **ODP/DSDP** | 10.2973 | 7,589 | 4,798 | 2,404 | 14,791 |

## PROJECTS AND OTHER ACTIVITIES

### ODP CUMULATIVE INDEX

Publication Services completed editing and proofing the Cumulative Index to the *Proceedings of the Ocean Drilling Program.* The cumulative index consolidates entries from all published ODP *Proceedings* indexes into four separate indexes: subject, taxonomic, geographic/site, and author.

The Cumulative Index to the *Proceedings of the Ocean Drilling Program* was published on 30 September 2008 (http://www-odp.tamu.edu/publications/), bringing together more than 22 years of scientific material across a wide range of marine geoscience subdisciplines into a comprehensive reference tool. In FY08, this ODP legacy project was supported directly by NSF through SIC funding.

### FINAL ODP ENGINEERING LEGACY MANUAL

The last of 15 ODP engineering legacy manuals was completed in September 2008. The "Borehole Completions Manual" compiles information on ODP Circulation Obviation Retrofit Kit (CORK), Advanced CORK (ACORK), CORK-II, and Borehole Instrument Hanger installations, including listings of all holes where a hard rock base (HRB), mini guide base, or casing or reentry cone were set. Information on lost holes is also included. The manual contains an introductory chapter describing the different types of completion installations; a chapter organized by hole that includes text from leg operations reports; completion drawings and installation drawings (where available); installation instructions; summaries of operations performed on a hole with cruise dates; parts lists; machine drawings; photos of HRB installations; and miscellaneous files. In FY08, this ODP legacy project was supported directly by NSF through SIC funding.

# EDUCATION

U.S. education activities are supported by NSF through SIC funding. These activities are not included in the POC and SOC budgets.

## DEEP EARTH ACADEMY

### EDUCATION VISUAL IDENTITY—DEEP EARTH ACADEMY WEB SITE

Planning progressed for a new Web portal for the *JOIDES Resolution*. This site, which will be linked to resources and materials currently on the Deep Earth Academy Web site, is aimed at encouraging teachers, students, and families to follow along and participate in the *JOIDES Resolution*'s upcoming expeditions—taking part in blogs, viewing videos and photos from the ship, asking questions of the scientists, and learning about the science actively taking place on board each expedition. The site will feature interactive games, coloring pages for younger children, introductions to each expedition's goals and participants, and information about the ship and its history. The site is scheduled to launch in November 2008, but a temporary splash page went live during this quarter at www.joidesresolution.org.

Deep Earth Academy continued to add new materials to its Web site, including new Activities of the Month. The activity featured in September 2008 is the first one completed from a contribution from the School of Rock 2008 class.

### EDUCATIONAL MATERIALS DISTRIBUTION

During the quarter, Deep Earth Academy distributed 1,162 posters and 85 DVDs at conferences and outreach activities and in response to requests received through the Deep Earth Academy Web site, and distributed 30,000 bookmarks promoting the new joidesresolution.org site through the Geological Society of America annual teacher mailing. Materials were distributed at the following meetings.

| Conference/Meeting/Workshop | Date | Location |
|---|---|---|
| Distinguished Lecturer Series Meeting | 1 and 2 August 2008 | Washington, D.C. |
| Science Division Teachers Meeting | 15 August 2008 | Woodstock, Virginia |

## MATERIALS DEVELOPMENT AND EDUCATION PROGRAMS

### *MATERIALS DEVELOPMENT*

Deep Earth Academy produced a new *JOIDES Resolution* poster, which features a photomosaic of the new ship on one side and a Legacy of Ocean Drilling poster on the reverse side (www.oceanleadership.org/learning/materials/posters/legacy). This poster was produced in partnership with K. Petronotis (Web Administrator, TAMU) and L. Orsi (Graphics Specialist, TAMU). In addition to showcasing both the past and future of ocean drilling research, this poster promotes the new *JOIDES Resolution* Web site.

During this quarter, Deep Earth Academy also produced *JOIDES Resolution* rubber stamps for conferences and teacher workshops; new ship cookie-cutters; sticker collages for public events, port calls, and museum outreach; and new versions of several posters that were still branded with the old *JOI Learning* identity.

### *SCHOOL OF ROCK 2008*

The School of Rock teacher workshop was the highlight of the year for Deep Earth Academy. Sixteen participants from 13 states gathered at the GCR in College Station, Texas, from 6 to 13 July 2008 for School of Rock 2008: Using Ocean Cores to Explore Past Climate Change. This year's participants included middle- and high-school faculty, an adult education instructor, and a preservice teacher. New instructors included T. Williams (Logging Staff Scientist, LDEO), S. Mrozewski (Mechanical Engineer, LDEO), J. Geldmacher (Staff Scientist, TAMU), J. Miller (Staff Scientist, TAMU), and School of Rock 2007 alumni B. King and T. King. A full list of activities, materials, participants, and instructors is available on the School of Rock 2008 Web page (www.oceanleadership.org/schoolofrock2008/). This year's program also featured the use of a new interactive "Moodle" site (http://moodle.deepearthacademy.org/), an online instructional environment where participants and instructors could introduce themselves, chat, interact, download documents, and complete pre- and postworkshop assignments.

### *TEACHER-AT-SEA PROGRAM*

Deep Earth Academy worked with C. Fulthorpe (Canterbury Basin Expedition Co-Chief Scientist), J. Geldmacher (TAMU Staff Scientist), K. Petronotis (TAMU Web Administrator), and K. Ellins (Member, U.S. Advisory Committee for Scientific Ocean Drilling) to select a teacher-at-sea for the Canterbury Basin Expedition. The selected teacher, J. Pollard (Birdville Independent School District, Texas), will conduct live and asynchronous Web-based outreach activities for teachers and students through the NSF-funded Texas Earth and Space Science Revolution, a rigorous professional development program preparing minority and minority-serving Texas teachers for the upcoming Earth and Space Science capstone course. Pollard will use the new joidesresolution.org Web page as a tool to reach out to her own and hundreds of other students during the expedition.

### *TEACHER WORKSHOPS*

| Conference/Meeting* | Date | Location |
|---|---|---|
| School of Rock 2008 | 5–14 July 2008 | College Station, Texas |
| National Marine Educators Association (NMEA) 2008 (L. Pacunas, Ocean LeadershipTeacher Fellow) | 21–23 July 2008 | Savannah, Georgia |
| Sally Ride Science and NOAA Climate Change Educator Conference (S. Cooper, Ocean Leadership Assistant Education Director) | 23 and 24 July 2008 | Silver Spring, Maryland |
| GEOFORCE (L. Peart, Ocean Leadership Education Director) | 24 September 2008 | Port Aransas, Texas |

*Teacher workshops that were conducted by representatives of the Deep Earth Academy or at which representatives of Deep Earth Academy gave presentations.

## DIVERSITY SUPPORT ACTIVITIES

### HISTORICALLY BLACK COLLEGES AND UNIVERSITIES FELLOWSHIP

In September 2008, the USIO released the first Historically Black Colleges and Universities (HBCU) 2008–2009 fellowship payment of $7,500 to S. Compton, an undergraduate student in the Marine Science Program at Savannah State University (SSU), Georgia. Working under the guidance of C. Pride (Assistant Professor of Marine Sciences, SSU), Compton will research the density, distribution, and stable isotropic composition of live benthic foraminifera in estuarine to outer-shelf waters of the South Atlantic Bight in Georgia.

The USIO continues to explore mechanisms that will improve the recruitment of faculty/research mentors and HBCU students in the USIO HBCU Fellowship initiative.

# OUTREACH

## PUBLIC AFFAIRS

USIO communications and outreach activities this quarter focused on opportunities to publicize scientific ocean drilling through related publications and events with the goal of raising public and media awareness.

Highlights include the following events:

- USIO scientists used deep ocean-floor drilling and experiments to show how volcanic rocks off the U.S. west coast and elsewhere might be used to securely imprison huge amounts of globe-warming carbon dioxide captured from power plants or other sources. The findings were published online on 22 July 2008 (see “Articles Authored by USIO Staff” below) and generated news coverage in such venues as National Public Radio’s Science Friday, *The New York Times, Wired, Scientific American, The [London] Guardian,* and others.
- In August 2008, C. Brenner (Technical Services Specialist, LDEO) produced an updated photo chronicle, complete with soundtrack, of the gigantic scope of work–from demolition to rebuilding–that thousands of shipyard workers have done on the *JOIDES Resolution* since the beginning of the U.S. SODV Project (www.youtube.com/OceanLeadership).
- The USIO participated in the first annual Geosciences Congressional Visits Day in September 2008 by bringing four IODP-experienced scientists (B. Christensen [Adelphi University], J. Jaeger [University of Florida], B. Taylor [University of Hawai’i at Manoa], and D. Smith [University of Rhode Island]) to meet with their congressional delegations. The visiting geoscientists conveyed to their Members of Congress the importance of geoscience research to America’s competitiveness in the global marketplace and, furthermore, made the

case that geoscience research should be a priority given the tremendous challenges arising from a rapidly changing climate. As scientists actively involved in IODP, they were able to deliver those messages through stories about individual accomplishments within scientific ocean drilling.

## PUBLIC RELATIONS MATERIALS

### *USIO MEDIA ADVISORIES/NEWS RELEASES*

The following media advisories were distributed this quarter:

- Using ocean floor core samples to explore past climate change. (2 July 2008)

The following news releases were distributed this quarter:

- Teachers experience "School of Rock." (8 July 2008)
- Journey to the center of the earth: could it really happen? (17 July 2008)
- IODP discovery: deep biosphere home to 90 billion tons of microbial creatures. (22 July 2008)
- USC scholar awarded prestigious fellowship. (28 July 2008)
- Yale scholar awarded prestigious fellowship. (29 July 2008)
- Harvard scholar awarded prestigious fellowship. (29 July 2008)

### *ARTICLES AUTHORED BY USIO STAFF*

Science and other articles authored by USIO staff published during this quarter include the following. Bold type indicates USIO staff. Other Program-related science articles are available online through the ocean drilling citation database (iodp.tamu.edu/publications/citations/database.html) and the IODP Expedition-related bibliography (iodp.tamu.edu/publications/citations.html).

- **Goldberg, D.S.,** Takahashi, T., and **Slagle, A.L.,** 2008. Carbon dioxide sequestration in deep-sea basalt. *Proc. Natl. Acad. Sci. U. S. A.*, 105:9920–9925. doi:10.1073/pnas.0804397105

### *NEWS ARTICLES, PROGRAMS, MEDIA CITATIONS, OR PUBLIC COMMENTARY*

News articles, programs, media citations, or public commentary published during this quarter resulting from IODP media and public awareness efforts included the following. See the "IODP in the news" Web page (www.iodp-usio.org/Newsroom/news.html) for other articles that raise the profile of the Program.

- Bhattacharjee, Y., Kaiser, J., Kintisch, E., Lawler, A., and Mervis, J., 2008. U.S. science faces a flat 2009. *ScienceNOW Daily News,* 29 September 2008.
- Biello, D., 2008. Out of sight, out of clime: burying carbon in a vault of sea and rock. *Sci. Am.*, 14 July 2008. http://www.sciam.com/article.cfm?id=undersea-carbon-capture-and-storage
- *ECOMatrix,* 2008. Rocce sottomarine come pozzi di $CO_2$. [Underwater rocks as $CO_2$ sinks.] *ECOMatrix,* 16 July 2008. http://www.mondosostenibile.org/rocce-sottomarine-come-pozzi-di-co2.htm

- Flatow, I., 2008. Deep-sea carbon sequestration. *(National Public Radio) Science Friday*, 25 July 2008. http://www.sciencefriday.com/program/archives/200807255
- Fountain, H., 2008. In deep-sea rock, a place for $CO_2$. *The New York Times*, 15 July 2008. http://www.nytimes.com/2008/07/15/science/earth/15obcarb.html?_r=1&scp=1&sq=%22columbia+university%22&st=nyt&oref=slogin
- Gabor, P., 2008. 90 milliárd tonnányi mikroorganizmus az óceánfenék alatt. *Origo [Hungary]*, 29 July 2008. http://www.origo.hu/tudomany/elovilag/20080729-90-milliard-tonnanyi-mikroorganizmus-az-oceanfenek-alatt.html
- *Granada Hoy*, 2008. Leslie Peart pide un mayor cuidado para los oceanos. [Leslie Peart calls for greater care for the oceans.] *Granada Hoy*, 30 July 2008. http://www.granadahoy.com/article/ocio/192273/leslie/peart/pide/mayor/cuidado/para/los/oceanos.html
- *HispanicBusiness.com*, 2008. Hispanic business announces 2008 EOY Winner's Circle Scholarship recipients. *HispanicBusiness.com*, 29 September 2008. http://www.hispanicbusiness.com/news/2008/9/29/hispanic_business_announces_2008_eoy_winners.htm
- Jha, A., 2008. Ocean floor could store century of US carbon emissions. *The [London] Guardian* (guardian.co.uk), 14 July 2008. http://www.guardian.co.uk/environment/2008/jul/14/carboncapturestorage.fossilfuels
- *La Opinion de Granada*, 2008. El Ocean Leadership visita el Parque. *La Opinion de Granada*, 30 July 2008.
- *Le Scienze*, 2008. Pozzi sottomarini per stoccare la $CO_2$. [Submarine sinks for $CO_2$ storage.] *Le Scienze*, 15 July 2008. http://lescienze.espresso.repubblica.it/articolo/Pozzi_sottomarini_per_stoccare_la_CO2/1332697
- *Los Angeles Garment & Citizen*, 2008. Echo Parker Gets $28,000 for Ocean Drilling Research. *Los Angeles Garment & Citizen*, 1 August 2008. http://www.garmentandcitizen.com/category/archives/archived-news-stories/2008-08-01-0_2019.php
- Madrigal, A., 2008. Scientists map out "dream reservoir" for $CO_2$ storage. *Wired Blog Network*, 14 July 2008. http://blog.wired.com/wiredscience/2008/07/scientists-map.html
- Madrigal, A., 2008. Barely alive, seafloor microbes might resemble exo-organisms. *Wired Blog Network*, 21 July 2008. http://blog.wired.com/wiredscience/2008/07/seafloor-microb.html
- Munro, M., 2008. Scientists tout Pacific floor for massive carbon capture project. *Canwest News Service*, 14 July 2008. http://www.canada.com/topics/news/world/story.html?id=3e3922a1-211c-4672-90e7-ce39a047cac1
- *Nice-Matin [Nice, France]*, 2008. Au large de la Côte, une mine de sel et peut-être du pétrole. [Off the coast, a salt mine and possibly oil.] *Nice-Matin*, 7 July 2008. http://www.nicematin.com/ta/m%E9diterran%E9e/133402/alpes-maritimes-au-large-de-la-cote-une-mine-de-sel-et-peut-etre-du-petrole

- Parsons, P., 2008. Digging deep on a journey to the centre of the Earth. *The Daily Telegraph,* 8 July 2008. http://www.telegraph.co.uk/earth/main.jhtml?xml=/earth/2008/07/08/sciunderfoot108.xml
- *Santa Cruz Sentinel,* 2008. Gary Griggs, our ocean backyard: drilling reveals drama: asteroid collisions, mass extinction and the loss of an entire sea. *Santa Cruz Sentinel,* 14 September 2008. http://www.scsextra.com/story.php?sid=79508
- *The Eagle [College Station, TX],* 2008. College town for August 24. *The Eagle,* 24 August 2008. http://www.theeagle.com/am/COLLEGE-TOWN2008-08-24T00-18-40

### MUSEUM PARTNERSHIPS

San Francisco's Exploratorium agreed to feature the Wilkes Land Expedition through video, photos, and/or e-mail updates in their NSF-funded, Webbie Award–winning Web site and exhibit "Ice Stories: Dispatches from Polar Scientists." Deep Earth Academy also began collaborating with Parque de las Ciencias in Granada, Spain, home of Wilkes Land Expedition Co-Chief Scientist C. Escutia Dotti. In July 2008, L. Peart visited the museum, which features Antarctic ODP cores, videos, drilling artifacts, and Deep Earth Academy materials in ANTARTIDA estacion polar, an exhibit adapted from Ice Station Antarctica developed by London's Natural History Museum. The ANTARTIDA estacion polar exhibit is slated to run from July 2008 through February 2008. Partnerships with both the Exploratorium and the Parque de las Ciencias offer the potential for visitor programming and/or teacher workshops before and during the Wilkes Land Expedition.

In addition, the Smithsonian's Ocean Hall opened on 27 September 2008 with contributions from IODP and Japan Agency for Marine-Earth Science and Technology. Ocean Leadership staff held preliminary discussions with Smithsonian education personnel regarding opportunities for partnering with the National Museum of Natural History for teacher professional development programs and exhibit floor enrichment.

### CONGRESSIONAL OUTREACH

See highlighted Geosciences Congressional Visits Day event under "Public Affairs."

## USIO INTERACTIONS WITH IODP-MI AND OTHER IMPLEMENTING ORGANIZATIONS

### MEETINGS

#### ENGINEERING DEVELOPMENT PANEL MEETING

An Engineering Development Panel (EDP) Meeting was held 16–18 July 2008 in Salt Lake City, Utah (see "Appendix C" for list of USIO attendees). K. Grigar (Staff Engineer, TAMU) presented an status report for all existing engineering projects, and a special report on the status of the drilling sensor sub development was presented as requested by IODP-MI and EDP. The meeting also focused on the review of existing engineering proposals made to the IODP-MI Engineering Task Force, input to the Scientific Technology Panel (STP) on how to limit contamination of cores collected for microbiology, development of the Engineering Technology Roadmap (Vers. 2), and an in-depth discussion of deep drilling in IODP. The USIO met with other IOs the day before the meeting to discuss engineering updates and issues.

### DATA MANAGEMENT COORDINATION GROUP MEETING

A Data Management Coordination Group Meeting was held 21 and 22 July 2008 in Washington, D.C. (see "Appendix C" for list of USIO attendees). Numerous representatives from the data tool development community at large, including CHRONOS, MARUM, ANDRILL, SAFOD, and CoreWall, attended the meeting. USIO attendees participated in discussions of development planning and direction for IODP's Scientific Earth Drilling Information Service (SEDIS) III project, including methods of creating authoritative, citable data provided through a Web service that could be activated from within SEDIS.

### SCIENTIFIC TECHNOLOGY PANEL MEETING

An STP Meeting was held 28–30 July 2008 in Edmonton, Canada (see "Appendix C" for list of USIO attendees). S. Higgins (Associate Director of Ocean Drilling Programs, Ocean Leadership) and P. Blum (Manager of Tools and Analytical Services, TAMU) presented the "test drive" external team report (www.oceanleadership.org/sodv/test-drive) and gave an overview of the analytical and data management systems and services on the retrofitted SODV. T. Williams (Logging Staff Scientist, LDEO) presented the current status of the magnetic susceptibility tool and gave a presentation on the proposed downhole magnetometer tool.

### SCIENCE PLANNING COMMITTEE

A Science Planning Committee Meeting was held 25–28 August 2008 in Sapporo, Japan (see "Appendix C" for list of USIO attendees). M. Malone (Manager of Science Operations, TAMU) presented a status report on SODV progress.

# APPENDIX A: FINANCE REPORT

Please contact info@oceanleadership.org for hard copies of financial pages.

# APPENDIX B: CONFERENCE AND MEETING SCHEDULE

| Conference/Meeting* | Date | Location |
|---|---|---|
| School of Rock 2008 Workshop | 6–13 July 2008 | College Station, Texas |
| Engineering Development Panel (EDP) Meeting | 16–18 July 2008 | Salt Lake City, Utah |
| Data Management Coordination Group (DMCG) Meeting | 21 and 22 July 2008 | Washington, D.C. |
| Scientific Technology Panel (STP) Meeting | 28–30 July 2008 | Edmonton, Canada |
| NanTroSEIZE Planning Meeting | 3–5 August 2008 | Yokohama, Japan |
| Science Planning Committee (SPC) Meeting | 25–28 August 2008 | Sapporo, Japan |
| Joint Systems Integration Team (JASIT) Meeting | 8 and 9 September 2008 | Palisades, New York |

*Implementing organization meetings, IODP-MI task force meetings, Science Advisory Structure (SAS) panel meetings, Program-sponsored conferences, and scientific and educational conferences at which the USIO had a booth or exhibit.

# APPENDIX C: TRAVEL

| Purpose | Dates | Location | Institution: Personnel |
|---|---|---|---|
| Publication Services meetings, training, and report planning and production | 18 June–2 July 2008 | College Station, Texas | TAMU: G. Lowe |
| Expedition 320 Planning Meeting | 26 June–1 July 2008 | Granada, Spain | TAMU: Adam Klaus |
| School of Rock 2008 Workshop | 6–13 July 2008 | College Station, Texas | Ocean Leadership: L. Peart, S. Cooper, A. Divins |
| Video Editing Training | 13–18 July 2008 | Addison, Texas | TAMU: J. Beck |
| Agilent Gas Chromatography (GC) Training | 13–19 July 2008 | Alpharetta, Georgia | TAMU: K. Fujine |
| International Continental Scientific Drilling Program (ICDP) Workshop | 15–18 July 2008 | Salt Lake City, Utah | LDEO: G. Iturrino |
| Engineering Development Panel (EDP) Meeting | 16–18 July 2008 | Salt Lake City, Utah | Ocean Leadership: S. Higgins<br>LDEO: E. Meissner |
| Science Systems Meeting | 18–20 July 2008 | College Station, Texas | Ocean Leadership: S. Higgins |
| Data Management Coordination Group (DMCG) Meeting | 21 and 22 July 2008 | Washington, D.C. | LDEO: D. Quoidbach<br>TAMU: P. Foster, S. Zeliadt |
| Acoustic Beacon Test | 24–29 July 2008 | Falmouth, Massachusetts | TAMU: R. Grout |
| National Business Travel Association (NBTA) Conference | 27–31 July 2008 | Los Angeles, California | TAMRF: D. DeShetler |
| Science Technology Panel (STP) Meeting | 28–30 July 2008 | Edmonton, Canada | Ocean Leadership: S. Higgins<br>LDEO: T. Williams<br>TAMU: P. Blum, D. Houpt |
| SODV Review** | 28 July–1 August 2008 | Singapore | Ocean Leadership: D. Divins |
| NanTroSEIZE Planning Meeting | 3–5 August 2008 | Yokohama, Japan | TAMU: B. Adduddell, P. Blum |
| DG Systems Training | 4–8 August 2008 | College Station, Texas | TAMU: S. Prinz |
| National Instruments NIWeek 09 Worldwide Graphical System Design Conference | 4–6 August 2008 | Austin, Texas | TAMU: T. Cobine, W. Crawford, D. Fackler, M. Hastedt, Z. Mateo, M. Vasilyev |
| Obtain Transportation Worker Identification Credential (TWIC) card | 21–22 August 2008 | Galveston, Texas | TAMU: R. Mitchell |

| | | | |
|---|---|---|---|
| Expedition 317 teacher interviews at Jackson School of Geosciences† | 20 August 2008 | Austin, Texas | TAMU: J. Geldmacher, K. Petronotis |
| IODP Science Planning Committee (SPC) Meeting | 25–28 August 2008 | Sapporo, Japan | LDEO: A. Malinverno<br>TAMU: M. Malone |
| Obtain TWIC card | 2 September 2008 | Houston, Texas | TAMU: D. Johnson |
| Joint Systems Integration Team (JASIT) Meeting | 8 and 9 September 2008 | Palisades, New York | Ocean Leadership: D. Divins, B. Gagosian |
| Mechanical Specific Energy (MSE) Training | 8 and 9 September 2008 | Houston, Texas | TAMU: K. Grigar, R. Grout |
| FrameMaker Training | 8–12 September 2008 | Dallas, Texas | TAMU: G. Delgado, A. Yeager |
| CMT Meeting** | 10 and 11 September 2008 | College Station, Texas | Ocean Leadership: D. Divins |
| Team Leading Seminar | 10–12 September 2008 | Dallas, Texas | TAMRF: B. Lancaster |
| Employee Leave Issues Training | 10–13 September 2008 | Salt Lake City, Utah | TAMRF: O. Berka |
| East Coast Repository (ECR) closing review | 11–14 September 2008 | Newark, New Jersey | TAMU: J. Firth, P. Rumford |
| 4th International Project Management Conference (ProMAC 2008) | 15–18 September 2008 | Anchorage, Alaska | Ocean Leadership: M. Morell |
| Association of Earth Science Editors (AESE) Conference | 20–23 September 2008 | Flagstaff, Arizona | TAMU: G. Lowe |
| Leadership Training | 23–26 September 2008 | Washington, D.C. | TAMRF: K. Johnson |

*Travel associated with meetings, conferences, port call work, and nonroutine sailing activities.
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# APPENDIX D: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST

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