

**IODP Proposal Evaluation Panel  
2nd Meeting, 14-15 May 2012  
Edinburgh, Scotland**

Proposal Evaluation Panel – PEP

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Richard Arculus*	Australian National University
Jennifer Biddle	University of Delaware
Tim Bralower*	Pennsylvania State University
Zanna Chase <sup>a</sup>	University of Tasmania
Adélie Delacour	Université ToulouseIII
Jerry Dickens <sup>b</sup>	Rice University
Tim Ferdelman	Max-Planck-Institut für marine Mikrobiologie
Marguerite Godard <sup>c</sup>	Université Montpellier
Verena Heuer <sup>d</sup>	University of Bremen
David Hodell	University of Cambridge
Matthew Hornbach	University of Texas at Austin
Barbara John	University of Wyoming
Juergen Koepke	Institut für Mineralogie, Leibniz Universität Hannover
Dick Kroon**	The University of Edinburgh
Kyung Eun Lee	Korea Maritime University
Cecilia McHugh	Queens College, CUNY
Katsuyoshi Michibayashi	Shizuoka University
Tomoaki Morishita	Kanazawa University
Maryline Moulin	Instituto Dom Luiz
Masafumi Murayama	Kochi University
Clive Neal	University of Notre Dame
Hiroshi Nishi	Tohoku University
Koichiro Obana	Japan Agency for Marine-Earth Science and Technology
Ingo Pecher <sup>e</sup>	University of Auckland & GNS Science
Stuart Robinson	University College London
Amelia Shevenell	University of South Florida
Ashok Singhvi	Physical Research Laboratory
Aleksey Smirnov	Michigan Technological University
David Smith	University of Rhode Island
Michael Strasser*	ETH Zurich
Nabil Sultan	IFREMER
Yohey Suzuki	The University of Tokyo
Yoshinori Takano*	Japan Agency for Marine-Earth Science and Technology
Eiichi Takazawa	Niigata University
Jun Tian	Tongji University
Jody Webster	Sydney University
Yasuhiro Yamada	Kyoto University
Yusuke Yokoyama	The University of Tokyo
James Zachos	University of California, Santa Cruz

Unable to attend.

\*\* – Chair

\* – Subchair

a –Alternate for Webster

b –Alternate for Bralower

c –Alternate for Delacour

d –Alternate for Ferdelman

e –Alternate for Arculus

## Liaisons, Guests, and Observers

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Jamie Allan	National Science Foundation (NSF), USA
Peter Blum	Integrated Ocean Drilling Program, Texas A&M University, USA
Se Won Chang	Korea Institute of Geoscience and Mineral Resources (KIGAM), Korea
Jamus Collier	IODP Management International, Inc., Japan
Sarah Davies	University of Leicester, UK
Jan de Leeuw	Royal Netherlands Institute for Sea Research, The Netherlands
David Divins	Ocean Drilling, The Consortium for Ocean Leadership, USA
Nobuhisa Eguchi	Center for Deep Earth Exploration (CDEX), JAMSTEC, Japan
Robert Gatliff	British Geological Survey, UK
Tom Janecek	National Science Foundation (NSF), USA
Issa Kagaya	IODP Management International, Inc.
Barry Katz	Environmental Protection and Safety Panel
Yoshihisa Kawamura	IODP Management International, Inc.
Anthony Koppers	United States Science Advisory Committee
Shin'ichi Kuramoto	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
Hans Christian Larsen	IODP Management International, Inc.
Alberto Malinverno	Lamont-Doherty Earth Observatory of Columbia University, USA
Margo Morell	U.S. Science Support Program, Consortium for Ocean Leadership, USA
Dhananjai Pandey	National Centre for Antarctic and Ocean Research, India
Katerina Petronotis	Integrated Ocean Drilling Program, Texas A&M University, USA
Emily Powell	U.S. Science Support Program, Consortium for Ocean Leadership, USA
Doug Schmitt	Scientific Technology Panel
Jeff Schuffert	U.S. Science Support Program, Consortium for Ocean Leadership, USA
Angela Slagle	Lamont-Doherty Earth Observatory of Columbia University, USA
Shouting Tuo	Tongji University, China
Gabriele Uenzelmann	Neben Site Characterization panel
Michiko Yamamoto	IODP Management International, Inc.

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**DRAFT MEETING AGENDA (Ver. 2)**

<b>Monday</b>	<b>14 of May 2012</b>	<b>08:30-17:30</b>
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**1. Introduction**

**1.1. Call to order and self-introductions**

PEP chair Dick Kroon called the meeting to order at 8:30. All meeting participants introduced themselves.

**1.2. Welcome and meeting logistics**

Kroon welcomed the meeting participants and outlined the logistics for the meeting.

**1.3. PEP and new SAS**

Kroon went over the current roles of PEP.

1. PEP nurtures and evaluates all proposals in the context of the themes of the new science plan
2. PEP selects the best proposals and forwards them to OTF and SIPCOM
3. PEP participates in OTF (chairs and sub-chairs)
4. PEP stimulates proposal pressure in certain scientific areas in case needed

Kroon explained the past, present and future of the SAS structure.

- The SAS until 1 Oct. 2011 consisted of 3 committees, the Science Steering and Evaluation Panel (SSEP), the Science Planning Committee (SPC) and the Scientific Advisory Structure Executive Committee (SASEC) and 4 service panels (SSP, EPSP, STP and EDP regarding site survey, environmental protection and safety, technology and engineering issues, resp.).

- The present SAS structure (1 Oct. 2011 until 30 Sept. 2013) consists of 2 committees, the Proposal Evaluation Panel (PEP) and the Science Implementation and Policy committee (SIPcom) and 3 service panels (the Environmental Protection and Safety Panel (EPSP), the Site Characterization Panel (SCP) and the Science Technology Panel (STP)).

- The future SAS structure (starting 1 Oct. 2013) will consist of the PEP and 3 service panels (SCP, EPSP and STP) with similar Terms of Reference as at present and embedded in the new

framework of the International Ocean Discovery Program (IODP) starting 1 Oct. 2013.

Kroon asked the panel members to discuss about PEP's future role and relation with FGBs outside of the meeting ( in the corridors of the hotel, or during coffee breaks etc.) and put forward their ideas later in the meeting.

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SIPCOM chair Jan de Leeuw introduced the SIPCOM duties.

[SIPCOM duties]

- Workshop Proposal Evaluation
- Monitoring science plan delivery
- Long-term planning
- Regional planning
- Collaboration issues (ICDP,PAGES, OOI, DCO, etc.)
- IODP Website
- General operational performance assessment
- Improving transparency at all levels
- Overarching educational issues
- Monitoring and evaluating engineering development
- Monitoring and stimulating overarching outreach and PR activities
- Overseeing Rapid Response Drilling-type activities and their impact on planned expeditions.
- Ethical issues, such as conditions of co-funding by commercial entities
- Exploring optimum platform flexibility, e.g. exploring alternatives for coring expeditions by using local/regional research vessels, seabed drilling by local/regional research vessels, etc.
- Standardization of reporting formats, an important issue now that individual FGBs will become responsible for data collection/archiving, shipboard reports, preliminary reports, etc., etc.
- Budget approval for Support office
- Oversight of planning and scoping of the BEAM and other major projects.

De Leeuw reported the consensuses from the SIPCOM January meeting in Goa as follows:.

- IODP forum and FGB's should have very strong representation of scientists and FGB chairs should be scientists.
- SIPcom duties/activities will be transferred to other IODP entities as indicated in the SIPcom minutes.
- Interactions between OTF and SIPcom are established by the SIPcom chair at the OTF

meetings and vice versa.

-SIPcom reports to funding agencies and IODP-MI through its minutes and by regular contacts of its chair with representatives of these IODP bodies.

-SIPcom, being asked by IWG+, forms a subcommittee to draft the Terms of Reference for the IODP forum and to present this draft at the SIPcom meeting in June for discussion and approval.

-SIPcom approves the latest version of the FY12 APP budget taking into account additional costs for technical support for the J-FAST expedition and the 945 kUSD reduction withdrawn by ECORD to be carried over to FY13.

-SIPcom forms a subcommittee to review the budget planning for IODP for FY13 and report on that during the meeting in June.

-SIPcom recommends that IODP-MI have a call for regional workshop proposals to facilitate and encourage the scientific community to develop high quality proposals from regions of the world's oceans that are presently under-represented in the proposal pool. The workshop proposal mechanism is meant to enlarge the proposal pool so that ship track scenarios can be developed that maximize scientific drilling and minimize transit times.

-SIPcom recommends funding a workshop on "observatories in Scientific Ocean Drilling".

-SIPcom declines the request for funding a workshop on the "Med. Sea drilling project".

-SIPcom strongly recommends funding for a workshop proposal "Southwest Pacific Ocean".

-SIPcom declines the request of funding for the "Ultra Deep Drilling Into Arctic Crust". In light of the overall high scientific status of the closely associated scientific proposal at PEP, SIPcom recommends that the proponents consider a focused workshop addressing the technical and engineering aspects of the proposed drilling as well as a technical/engineering risk analysis.

-SIPcom asks PEP to summarize the scientific and regional distribution of preproposals, proposals, CPP's and APL's at PEP and OTF to enable SIPcom at their June meeting to evaluate future covering of the post-2013 IODP Science Plan.

-Regarding the long-term (post FY14) planning of the JR it was recognized that, following the probable work in the Western Pacific, additional proposal pressure at the OTF level is required to facilitate and optimize JR operations and transits, while maximizing scientific return. A recent Indian Ocean workshop and a planned SW-Pacific workshop may increase the number of drillable targets in these areas. To encourage future proposal pressure in the S-Atlantic, Circum-Antarctic and Indian Ocean, which are possible routes for the JR in the long term, SIPcom requests that

future calls for both drilling projects and workshops specifically solicit submissions concerning these areas.

#### **1.4. Approve PEP meeting agenda**

Kroon summarized the major agenda items for the meeting. He asked if there needed to be any changes to the agenda. No changes were suggested.

#### **1.5. PEP Review Process**

##### **1.5.1: Participants' declarations of COI for current proposal set**

Kroon reminded the members of the following PEP COI rule.

1. If you are an author or co-author on a proposal, one is expected to leave the room.
2. If your colleague is involved in a proposal, one is expected to stay in the room but is not to comment on that proposal.

##### **1.5.2: Homogenize response letters according rating criteria**

Kroon pointed out that some of the previous PEP review letters to the proponents did not show complete clarity from the common perspective of the official rating criteria. He asked PEP watchdogs to write the reviews along the following criteria and make it obvious to the proponents.

- Are the scientific questions/hypotheses being addressed exciting and of sufficiently wide interest to justify the requested resources?
- Will the proposal significantly advance one or more goals of the Science Plan?
- Would the proposal engage new communities or other science programs into the drilling program?
- To what degree does the integrated experimental design of site characterization, drilling, sampling, measurements, and downhole experiments constitute a compelling and feasible scientific proposal?

Barry Katz asked who reviews a proposal after site location changes by EPSP. Larsen suggested that proponents submit a letter in response to the EPSP review and in turn PEP reviews the letter.

##### **1.5.3: Reflection on San Francisco meeting (responses from proponents)**

Kroon informed that he received some responses from the proponents. Most of the proponents were very positive and agreed with the PEP comments, but only one proponent questioned the deactivation process. Some proponents reported that they will resubmit 1 October 2012 (e.g. Zahn, Coxall, Betzler, and others).

#### **1.5.4: Workshops**

Kroon introduced the following SIPCOM consensus.

SIPCOM Consensus in GOA: SIPCOM recommends that PEP has the authority to form limited - term, small membership Detailed Planning Groups (DPG), as needed, to foster the formation of feasible drilling leg proposals from one or more existing proposals.

He asked whether DPGs could be formed at this stage, but no suggestions were raised.

## **2. Question-and-answers to Agency reports**

MEXT(Japan), NSF(U.S.), EMA(ECORD), MOST(China), KIGAM(KIGAM), ANZIC(Australia/New Zealand) ,MoES(India)

Jamie Allan from NSF explained NSF's effort and timelines for the program transition. NSF intends to seek authorization for a one-year extension of the current contract to the Consortium for Ocean Research for operation and management of the JOIDES Resolution. Action Items will be presented to NSB in July 2012 for their authorization to extend current contract to operate JR. If NSB approves, solicitation for JR management office will be issued by end of August 2012 with a 90 days window for proposal submission. NSF will seek support from NSB in Dec. 2013 to provide support for the JR beyond FY14 .

Dhananjai Pandey from MoES reported IODP-India's status. India holds discussions about whether to join IODP post-FY13. Scientists are trying to convince the government to fund IODP membership post-FY13, but facing difficulty to justify it. Indian Ocean WS and Indian Ocean proposals/expeditions may help to convince the Indian government to fund the program.

Clive Neal asked MEXT how Japanese scientists responded to the new system? Kuramoto commented that an internal workshop about Chikyu would be held to discuss about the new system and what can be done scientifically and technologically.

Barbara John asked ECORD about the status of the following proposal P672 Baltic Sea Basin Paleoenvironment. Robert Gatliff replied that there are only a few issues with ESPS. EPSP chair Katz commented that the proponents were required to submit some materials for

EPSP evaluation.

### 3. IODP Management International, Inc. (IODP-MI) report

Michiko Yamamoto provided the IODP-MI report.

[Proposal submission for 2012 May deadline]

MI received 18 proposals in total. 3 proposals are “revised proposals” and 15 are new proposals. 15 new proposals is the second best record for these 11 years.

[Proposal statistics]

Total number of active proposal: 87

Breakdown by science plan theme

Theme	Number of proposal
Climate and Ocean	42
Biosphere Frontier	14
Earth Connections	14
Earth in Motion	17

Breakdown by ocean

Ocean	Number of proposal
Arctic	8
Atlantic	21
Indian	14
Pacific	37
Southern	4
Mediterranean	3

Breakdown by SAS evaluation stage

SAS Stage	Number of proposal
PEP	51
OTF	35
Holding Bin	1

Breakdown by lead proponent’s country

Country of PI	Number of proposal
US	42
Japan	11
ECORD	27
China	1
Korea	1
ANZIC	3
India	4



## Breakdown by platform

Platform	Number of proposal
Non-Riser	57
Riser	10
MSP	13
Multiple	7

## [Schedule of SAS meeting]

1 June		Data submission deadline
19-20 June	SIPCOM	Washington DC, USA
7-9 August	SCP	Barcelona, Spain
August	STP	TBD (USA)
1 October		Proposal deadline
November or December	PEP	TBD (Japan)

## [IODP-MI news]

- New web site will launch in June
- New proposal submission system should run for the April deadline-

**4. Implementing Organization (IO) reports**

## 4.1. CDEX

Nobu Eguchi provided CDEX report.

Expedition #	Title	Time window
Non-IODP	(Off Sri Lanka operation)	
Exp 343	Japan Trench Fast Drilling Project (JFAST)	1 April - 24 May
Exp 337	Deep Coalbed Biosphere off Shimokita	6 July -15 Sep.
Exp 338	NanTroSEIZE Plate Boundary Deep Riser - 2	19 Sep. - 6 Jan.

## [Exp 343: Japan Trench Fast Drilling Project (JFAST) ]

- Main Goal of the JFAST Project: Understand the level of stress (friction), which control the large slips (20 – 50 m) on the shallow portion of the megathrust.
- Temperature Measurements to Estimate Friction
- Fault Zone Sampling for Physical Properties

-Ongoing result:

Water depth-Approximately 7,000 m, Target Depth: 900 - 1,000 mbsf

C0019A (6883.5 mbsl); Wellhead installation failure

C0019B (6889.5 mbsl); LWD hole, succeeded

C0019C (6900 mbsl); Wellhead installation succeeded but LWD lost in hole

C0019D (6897.5 mbsl); Wellhead installation succeeded but UWTV cable trouble

C0019E (6903.5 mbsl); Coring hole, next coring starts from 650 mbsf

## 4.2 USIO

David Divins provided USIO report.

Expedition #	Title	Time window
Exp 336	Mid-Atlantic Mbio	16 Sep - 17 Nov.
Exp 339	Mediterranean Outflow	17 Nov - 17 Jan
	Unscheduled Dry Dock	17 Jan - 15 Feb
Exp 340T	Atlantis Massif (779 APL)	15 Feb - 3 March
Exp 340	Lesser Antilles	3 March –17 April
Exp 342	Newfoundland Sediment Drifts	2 June – 1 August

[Exp 339: Mediterranean Outflow]

-Objective: Investigation of the Mediterranean Outflow Water (MOW) through the Gibraltar gateway and its influence on global circulation and climate. APL-763: recover Pleistocene marine reference section.

-Expedition Highlights: Confirmed a two-phase onset of Gibraltar gateway opening, in which the MOW onset is not noted until 4.1-4.4 Ma. Demonstrated that exactly the same climate signal is evident at several of the drift sites. The sedimentation rate is 3-6 times as high.

[Exp 340T: Atlantis Massif APL]

-Objective: Log Hole U1309D, focusing on temperature, acoustic velocity measurements, and offset VSP.

[Exp 340: Lesser Antilles]

-Objective: To better understand the constructive and destructive processes related to volcanism along island arcs.

-Expedition Highlights: Drilled 22 Holes at 9 Sites, 2384 m of core recovered. Successfully logged 510 m of formation at 4 sites, 34 measurements of downhole temperature at 7 sites.

-Based on the downhole temperature data, a new heat-flow model for the area has been developed with a draft manuscript already completed.

[E&O activities]

-Lisbon Port Call, January 2012

Almost 800 tour visitors VIPs incl. Portuguese Sec. of State for Science, Parliament, and a former President. Press briefing attended by ~30 regional media, including TV and radio.

-Journalist on board Hess Deep

Jason Fagone, on assignment for NY Times Magazine. Also gathering material for book project.

-Core Discoveries Newsletter, Spring 2012 issue out in mid-May.

Coverage includes Newfoundland preview, logging tools "How it Works," and update on Publications.

-Onboard Educators

Atlantis Massif: Virginia Jones, The School of Rock 2005, alumni from Idaho Falls, Idaho, produced two dozen live video interactions with urban schools in the United States.

Lesser Antillies: Teresa Greely, education program director at the University of South Florida (USF), completed 35 video broadcasts to a wide range of international groups, including those in France, Guadeloupe, the U.K., Canada, and numerous U.S. states.

-Others

#Ocean Sciences Meeting, Salt Lake City, Utah, 20-24 February: Deep Earth Academy staff chaired a thematic session titled Live from the Ocean: Engaging Students and the Public in Active Research Projects at Sea.

# School of Rock 2012 - Ship to Shore Science the JOIDES Resolution as a Platform for Education: Onboard the JOIDES Resolution in a transit from Curacao to Bermuda, 23 May -2 June 2012.

#School of Rock 2012 - Introduction to Curriculum on Climate History for Minority Serving Institution Faculty: Gulf Coast Repository 4-7 June 2012.

[FY13 JR Operation schedule]

<b>Expedition #</b>	<b>Title</b>	<b>Time window</b>
	Non-IODP/Tie-Up	1 August – 23 Oct '12
Exp 344	Seismogenesis Project 2 (CRISP)	23 Oct – 11 Dec '12
Exp 345	Hess Deep Plutonic Crust	11 Dec – 10 Feb '13
Tie-Up		10 Feb – 29 May '13
Exp 341	Southern Alaska Margin Tectonics, Climate & Sedimentation	29 May – 29 July '13
Exp 346T	Transit	29 July – 20 Aug '13
Exp 346	Asian Monsoon	20 Aug – 28 Sep '13

#### 4.3 ESO

Sara Davis provided ECORD report.

MSP schedules:

<b>Proposal #</b>	<b>Title</b>	<b>Time window</b>
581	Late Pleistocene Coralgal Banks	FY12
672	Baltic Sea Basin Paleoenvironment	Planned Spring/ Summer 2013
548	Chicxulub K-T Impact Crater	Forwarded March 2010, SPC ranked #4
758	Atlantis Massif Seafloor Processes	Forwarded March 2011, SPC ranked #1
716	Hawaiian Drowned Reefs	Forwarded March 2009, SPC ranked #6
581	Late Pleistocene Coralgal Banks	Forwarded March 2010, SPC ranked #10

[Proposal 581: Coralgal Banks Technical test on Southern Bank]

-Objectives: Test suitability of coring equipment on R/V Seaprobe 1 to recover relict coralgal reef material (Opportunity is potentially open for later this year)

-Permit already granted by the Bureau of Ocean Energy Management, Regulation and Enforcement. EPSP approval gained for drilling at chosen site.

[Proposal 672: IODP Expedition 347 Baltic Sea Paleoenvironment]

Co-chiefs: Thomas Andrén (Södertörn Univ.) & Bo Barker Jørgensen (Aarhus Univ.)

-Additional core taken specifically to meet microbiological objectives

-Expected to start Spring/Summer 2013, duration 60 days.

[Expedition 374 Baltic Sea: Planning]

-Notice of interest for platform issued 7 March, deadline 11 April

-At least one provider can supply one platform to tackle all sites

-Final EPSP site approval required following submission of a revised site survey package

[Proposal 548: Chicxulub Impact Crater]

-Objectives: To drill into one of the largest & best preserved impact craters on Earth,

-Target: a topographic feature of crater known as the peak ring

e.g., What is peak ring made of?, How did the peak ring form?, How do rocks weaken during large impacts?, What caused the environmental changes that lead to mass extinction?

[Proposal 758: Serpentinization and life]

-Objectives: Biogeochemical & tectono-magmatic processes in young mafic & ultramafic seafloor. Drill a spreading-parallel profile across the southern wall of the Atlantis Massif.

e.g., How biological processes change with rock type changes.

The role of serpentinisation in hydrothermal systems.

How serpentinisation might sustain microbial communities,

What processes lead to variations in lithologies and detachment faulting.

[QA/QC Documentation]

ESO, lead by Bremen, is making its QA/QC web interface available

All quantitative & detailed information on measurements of standards, reference materials and blanks during sample measurements.

Presented at STP Meeting in Kochi, STP Consensus Statement 1203-11.

[Outreach]

-European Geosciences Union (EGU) Annual Meeting, Townhall Meeting: 24 April

IODP-ICDP Booth, ECORD DVD – shown at the EGU GeoCinema, IODP-Forum session

-Upcoming Meetings where ESO will be promoting IODP Activities, 24 May, Gdansk, Poland  
– IODP/Baltic Expedition Meeting. ESO Chair (Bob Gatliff), Staff Scientist & Outreach Manager. Will start the outreach process for the Baltic Expedition.

[JR Portcalls]

Lisbon in January 2012

-ESO Outreach supported USIO and IODP Portugal, St John's, Newfoundland

-ESO Outreach will be supporting USIO and IODP Canada

-ECORD Summer School 2012

## 5. Proposal status as background for IODP Science 2013-2023

SIPCOM asked PEP to analyze the active proposals in the system.

**SIPCOM Action Item 1201-17:** SIPCOM asks PEP to summarize the scientific and regional distribution of pre-proposals, proposals, CPPs, and APLs at PEP and OTF, to enable SIPCOM at their June 2012 meeting to evaluate future coverage of the post-2013 IODP Science Plan.

Kroon emailed the all proponents asking what challenges fit their proposal the most. He compiled their responses and his own opinions into one list (See Appendix). He also made the following statistics.

[CO: Climate and Ocean Change: Reading the Past, Informing the Future]

CO: Challenge 1: How does Earth's climate system respond to elevated levels of atmospheric CO<sub>2</sub>? -35x (16.7%)

CO: Challenge 2: How do ice sheets and sea level respond to a warming climate? -23x (11%)

CO: Challenge 3: What controls regional patterns of precipitation, such as those associated with monsoons or El Niño? -16x (7.6%)

CO: Challenge 4: How resilient is the ocean to chemical perturbations? -10x (4.8%)

Total hits Climate and Oceans: 40.1%

Total hits Climate and Oceans at OTF: 38.1%

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[Biosphere Frontiers: Deep Life, Biodiversity, and Environmental Forcing of Ecosystems]

BF: Challenge 5: What are the origin, composition, and global significance of subfloor communities? -17x (8.1%)

BF: Challenge 6: What are the limits of life in the subseafloor? -14x (6.7%)

BF: Challenge 7: How sensitive are ecosystems and biodiversity to environmental change? -15x (7.1%)

Total hits Biosphere: 21.9%

Total hits Biosphere at OTF: 22.9%

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[Earth Connections: Deep Processes and Their Impact on Earth's Surface Environment]

EC: Challenge 8: What are the composition, structure, and dynamics of Earth's upper mantle? -6x (2.9%)

EC: Challenge 9: How are seafloor spreading and mantle melting linked to ocean crustal architecture? -14x (6.7%)

EC: Challenge 10: What are the mechanisms, magnitude, and history of chemical exchanges between the oceanic crust and seawater? -4x (1.9%)

EC: Challenge 11: How do subduction zones initiate, cycle volatiles, and generate continental crust? -11x (5.2%)

Total hits Earth Connections: 16.7%

Total hits Earth Connections at OTF: 16.2%

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[Earth in Motion: Processes and Hazards on Human Time Scales]

EM: Challenge 12: What mechanisms control the occurrence of destructive earthquakes, landslides, and tsunami? -22x (10.5%)

EM: Challenge 13: What properties and processes govern the flow and storage of carbon in the subseafloor? -7x (3.3%)

EM: Challenge 14: How do fluids link seafloor tectonic, thermal, and biogeochemical processes? -16x (7.6%)

Total hits Earth in Motion: 21.4%

Total hits Earth in Motion at OTF: 22.9%

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[Total]

Total hits Climate and Oceans: 40.1%

Total hits Biosphere: 21.9%

Total hits Earth Connections: 16.7%

Total hits Earth in Motion: 21.4%

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De Leeuw thanked Kroon's effort on the homework and commented that this would help SIPCOM to consider the future plan. Larsen commented that this kind of analysis would not be helpful, because many proposals cannot be fully explained with the existing challenges. There need to be a mechanism to evaluate science out of the science plan. Allan and Dickens agreed with Larsen. De Leeuw also agreed and added that the quality of science is more important. He, however, commented that this kind of statistics would be surely helpful for SIPCOM to know how the program is going and should be passed to the IODP Forum.

## 6. Proposal review

### 6.1 Pool of proposals to be reviewed

20 proposals in the list below were reviewed at this meeting

Proposal	Short title	WD1	WD2	WD3
696-Full4	Izu-Bonin-Mariana Deep Forearc Crust	Neal	Takazawa	Morishita
735-CPP	South China Sea Tectonic Evolution	Smirnov	Koepke	Godard
778-Full2	Tanzania Margin Paleoclimate Transect	Zachos	Nishi	Singhvi
781A-Full	Hikurangi: observatory	Moulin	John	Yamada
791-APL2	Continental Margin Methane Cycling	Biddle	Suzuki	Takano



792-Pre	Shiva Impact Structure	Tian	Obana	Hornbach
793-CPP	Arabian Sea Monsoon	Shevenell	Tian	Robinson
794-Pre	Arctic slope stability	Yamada	Sultan	McHugh
795-Full	Indian Monsoon Rainfall	Nishi	Dickens	Chase
796-Full	Ligurian Landslide	Hornbach	Smirnov	John
797-Pre	Alaska Beaufort Margin	Dickens	Murayama	Robinson
798-MDP	Gulf of Lion Drilling	Smith	Zachos	Biddle
799-full	Western Pacific Warm Pool	Hodell	Lee	Yokoyama
800-full	Indian ridge Moho	Takazawa	Neal	Pecher
801-Pre	Brazil Argentina Margin Microbiology	Suzuki	Smith	Heuer
802-Pre	Marmara tectonics	John	Michibayashi	Sultan
803-pre	Greenland IceSheet	Yokoyama	Shevenell	Tian
804-Pre	Antarctic Cryosphere Evolution	Lee	Nishi	Chase
805-MDP	MoHole to the Mantle	Neal	Pecher	Smirnov
806-Pre	Beaufort Gas Hydrate	Takano	Biddle	Heuer

	: Submission of revised version
	: Came back from External review
	: New proposals

## 6.2 Breakout session

The panel members were thematically divided into four breakout groups to review and discuss on the proposals.

Below are the lists of breakout groups.

<i>Main Room: Earth Connections and Earth in Motion</i> (Chair:Neal, Strasser)	[Note] Attendants: all EC and EM specialists Obana and Hornbach attend also the CO session for discussion of the 792-Preproposal
EC proposals (Chair:Neal)	
696-Full4	Izu-Bonin-Mariana Deep Forearc Crust
800-Full	Indian Ridge Moho
805-MDP	MoHole to the Mantle
EM proposals (Chair: Strasser)	[Note]Sub-chair Strasser arrives somewhere in the afternoon, Yamada-san takes over temporarily
735-CPP	South China Sea Tectonic Evolution
781-Full	Hikurangi Observatory
794-Pre	Arctic Slope stability
796-Full	Ligurian Landslide

802-Pre	Marmara tectonics
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<i>Break-out room 1: Climate and Oceans</i> (Chair: Shevenell)	[Note] Attendants: all CO specialists Zachos attends also the BF session for discussion of the 798-full proposal
792-Pre	Shiva Impact Structure
793-CPP	Arabian Sea monsoon
795-Full	Indian monsoon Rainfall
797-Pre	Alaska Beaufort Margin
799-Full	Western Pacific Warm Pool
778-Full2	Tanzania Margin Paleoclimate Transect
803-Pre	Greenland Ice Sheet
804-Pre	Antarctic Cryosphere

<i>Break-out room 2: Biosphere</i> (Chair: Takano)	[Note] Zachos moves to CO after discussion of P798.
798-MDP	Gulf of Lyon Drilling
791-APL2	Continental Margin Methane cycling
801-Pre	Brazil Argentina Microbiology
806-Pre	Beaufort Gas Hydrate

### 6.3 Brief plenary session

Kroon confirmed that the plenary session would start next day at 10:30am.

<b>Tuesday</b>	<b>15 of May 2012</b>	<b>08:30-17:30</b>
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## 7. Proposal review continue

### 7.1 Breakout session

The four breakout groups gathered again to continue their discussion.

## 8. Reports from breakout sessions

Sub-chairs presented the summary of the breakout discussions. The course of action regarding each of the 20 PEP proposals reviewed during the 2nd PEP meeting was achieved by consensus of the full panel. The specific dispositions for each proposal were as follows:

Proposal #	Short title	PEP's recommendation
696-Full4	Izu-Bonin-Mariana Deep Forearc Crust	Forward to OTF
735-CPP	South China Sea Tectonic Evolution	Send to external review
778-Full2	Tanzania Margin Paleoclimate Transect	Forward to OTF
781A-Full	Hikurangi: observatory	Forward to OTF
791-APL2	Continental Margin Methane Cycling	Forward to OTF
792-Pre	Shiva Impact Structure	Deactivate
793-CPP	Arabian Sea Monsoon	Submit revised CPP
794-Pre	Arctic slope stability	Deactivate
795-Full	Indian Monsoon Rainfall	Submit revised full
796-Full	Ligurian Landslide	Submit revised full
797-Pre	Alaska Beaufort Margin	Develop MDP with 806 or Revise full
798-MDP	Gulf of Lion Drilling	Deactivate
799-full	Western Pacific Warm Pool	Submit revised full
800-full	Indian ridge Moho	Submit MDP
801-Pre	Brazil Argentina Margin Microbiology	Submit full
802-Pre	Marmara tectonics	Deactivate
803-pre	Greenland IceSheet	Deactivate
804-Pre	Antarctic Cryosphere Evolution	Deactivate
805-MDP	MoHole to the Mantle	Submit revised MDP
806-Pre	Beaufort Gas Hydrate	Develop MDP with 797 or Revise full

The current proposal guidelines prescribe only two destinations for CPPs, forward to OTF or deactivate. PEP found the guideline obsolete, as the guideline does not assume CPPs from important new member countries. PEP concluded that the guideline needs to have two more options for CPPs, submit revised version and forward to external review. De Leeuw promised that SIPCOM would discuss this issue at their June meeting.

## 9. Framework for Post 2013 IODP

Tom Janecek provided the update on the framework for the new program.

[Progress towards post 2013 ]

2009 -2011

IWG Plus designing new program

- Develop "Points of Agreement"
- Similar in design to current program

Summer 2011

Decision by NSF Management to seek a new business model. Based upon:

- Economics of Drilling and NSF budgets
- Need to generate external sources of revenue
- Streamline costs (mgmt and operations)

2011-2012

IWG+ developed a new framework for IODP

- Independent partnerships

[What's not going to change]

- Proposals can be submitted for any platform
- Internationally staffed Science Advisory Structure
- Scientific community involved in scheduling and long-term planning for all platforms
- US scientists will be able to sail on any platform
- Program member offices still nominate scientists
- Funds available for salary support at sea and for post-cruise research

[Elements of New Framework]

Three Platforms

- Independent funding of operations and associated Facility

Science Advisory Structure

- Available for all Platform Providers

Support Office

- Proposal Processing

IODP Forum

- International body for monitoring and advising Platform Providers

[Platform Provider Management]

- Independent funding for each Platform and associated facilities
- Yearly Subscription or Project-by-Project participation
- Overseen by Facility Boards
  - Scientists, Funding agencies, Operator
  - Scheduling
  - Long-term planning
  - US -- Fund Support Office Activities
- Core Archives
  - ECORD - Bremen Repository
  - US - Gulf Coast Repository and JR cores at Kochi
  - Japan - Chikyu Core
- Platform Providers --- Publications, Tech Development, E&O

[Science Advisory Structure]

- Proposal Evaluation Panel (PEP) and essential service panels
  - Site Characterization Panel
  - Environmental Assessment Protection and Safety Panel
  - Scientific Technology Panel
- Available for use by any Platform Provider
- Internationally Staffed
  - Membership quotas TBD
  - Membership selected by Program Member Offices
- Proposals from PEP forwarded to Facility Governing Board(s)
- SIPCOM disappears after FY2013
  - SIPCOM duties move to IODP Forum and Facility Boards

[Support Office]

- Small office
  - ~ 5 people
- Funded by NSF and JR partner contributions
- Primary Functions:
  - Support of Science Advisory Structure
    - Proposal handling (drilling and workshop proposals)
    - SAS Meeting logistics
  - Publication of "Scientific Drilling"
  - Maintain IODP Website

- Solicitation out late summer 2012
  - 5-Year Cooperative Agreement

[IODP Forum]

- Venue for all IODP entities to meet yearly
- Terms of Reference being written by SIPCOM
- Two primary functions
  - Monitor science plan delivery
  - Provide advice on Platform Provider activity
- Participants
  - Active community scientists
  - Funding agencies
  - Operators
  - Program Member Office representatives
- Chaired by well-recognized scientist
  - Support of chair provided by home country

[What's Next?]

May 2012: Info Item to National Science Board for continued operation of JOIDES Resolution

June 2012: IWG Plus meeting to finalize Framework

July 2012: Action Item to National Science Board for continued operation of JOIDES Resolution

Fall 2012: Facility Governing Boards formed / Support Office solicitation / Formalizing JR partnerships

Oct 2013: JR starts new Program in Western Pacific

**10. Review of motions and consensus items**

No motions and consensus

**11. 3<sup>rd</sup> PEP meeting**

Host: Yamada

Place: Kyoto, Japan

Date: TBD

**12. Other business**

No other business was discussed.

Kroon adjourned the meeting at 17:30.

## Appendix: Proposal theme

Proposal#	Version	Short_Title	Theme	Challenge
505	Full5	Mariana Convergent Margin	BF	5+6
522	Full5	Superfast Spreading Crust	BF+EC+EM	9+10+8+14+5+6+13+11
537	CDP7	Costa Rica Seismogenesis Project Overview	EM	12
537A	Full5	Costa Rica Seismogenesis Project Phase A	EM	12
537B	Full4	Costa Rica Seismogenesis Project Phase B	EM	12
548	Full3	Chicxulub K-T Impact Crater	CO	1
549	Full6	Northern Arabian Sea Monsoon	BF+CO	2+3+5
551	Full	Hess Deep Plutonic Crust	EC	8
552	Full3	Bengal Fan	CO	1+3
553	Full2	Cascadia Margin Hydrates	BF+EC+EM	5+10+12+13+14
567	Full4	South Pacific Paleogene	CO	1+2+4
581	Full2	Late Pleistocene Coralgall Banks	CO	1+2+7
589	Full3	Gulf of Mexico Overpressures	BF	5+6
595	Full4	Indus Fan and Murray Ridge	CO	1+3
603	CDP3	NanTroSEIZE Overview	EM	12+14
603A	Full2	NanTroSEIZE Phase 1: Reference Sites	EM	12+14
603B	Full2	NanTroSEIZE Phase 2: Mega-Splay Faults	EM	12+14
603C	Full	NanTroSEIZE Phase 3: Plate Interface	EM	12+14
603D	Full2	NanTroSEIZE Observatories	EM	12+14
605	Full2	Asian Monsoon	CO	1+3
618	Full3	East Asia Margin	CO	1+3
633	Full2	Costa Rica Mud Mounds	BF	5+6
635	Full3	Hydrate Ridge Observatory	EM	11+12
637	Full2	New England Shelf Hydrogeology	BF	5+6?
658	Full2	North Atlantic Volcanism and Paleoclimate	CO	9
659	Full	Newfoundland Rifted Margin	EC	9
661	Full2	Newfoundland Sediment Drifts	CO	1+7
667	Full	NW Australian Shelf Eustasy	CO	2
672	Full3	Baltic Sea Basin Paleoenvironment	CO	1+2
680	Full	Bering Strait Climate Change	BF+CO	2+3+7
686	Full	Southern Alaska Margin 1: Climate-Tectonics	CO	2+1+3
692	Full	Flemish Cap Rifted Margin	EC	9
693	APL	S. Chamorro Seamount CORK	BF	5+6
695	Full2	Izu-Bonin-Mariana Pre-Arc Crust	EC+CO	1+8+11
696	Full4	Izu-Bonin-Mariana Deep Forearc Crust	EC	11



697	Full3	Izu-Bonin-Mariana Rear-Arc Crust	EC	11
698	Full3	Izu-Bonin-Mariana Arc Middle Crust	EC	11
702	Full	Southern African Climates	CO	1+7
703	Full	Costa Rica SeisCORK	EM	12+14
704	Full2	Sumatra Seismogenic Zone	EM	12+14
705	Full2	Santa Barbara Basin Climate Change	CO	1+3
707	CDP3	Kanto Asperity Project: Overview	EC+EM	11+12
708	Pre2	Central Arctic Paleoceanography	CO	1+2
716	Full2	Hawaiian Drowned Reefs	BF+CO	1+2+3+5+6+7
724	Full	Gulf of Aden Faunal Evolution	CO	1+7
730	Pre2	Sabine Bank Sea Level	BF+CO	2+3+4+7
732	Full2	Antarctic Peninsula Sediment Drifts	CO	2
735	Full	South China Sea Tectonic Evolution	EC	8+9
740	Full	Galicia Margin Rift History	EC	9
745	CPP	Shimokita Coal Bed Biosphere	BF	5+6
747	Full	North Atlantic Paleogene Climate	CO	1+4
749	Pre	Gulf of California Rifting & Microbiology	BF+CO+EC+EM	5+6+9
750	Pre	Beringia Sea Level History	CO	1+2
751	Full	West Antarctic Ice Sheet Climate	CO	1+2
753	Pre2	Beaufort Sea Paleoceanography	BF+CO+EM	1+2+3+4+7+13
754	Full2	Norwegian Sea Silica Diagenesis	BF	7
756	Pre	Arctic Ocean Exit Gateway	CO+EC	1+2+9
758	Full2	Atlantis Massif Seafloor Processes	BF+EC+EM	5+6+8+9+10+13+14
760	Pre	SW Australia Margin Cretaceous Climate	CO+EC	1+4+7
761	Pre	South Atlantic Bight Hydrogeology	EM	14
763	APL	Iberian Margin Paleoclimate	CO	1
769	APL2	Costa Rica Crustal Architecture	EC+EM	9+10+13+14
770	Full2	Kanto Asperity Project: Observatories	EC+EM	11+12
771	Full	Iberian Margin Paleoclimate 2	BF+CO	1+2+7
772	APL2	North Atlantic Crustal Architecture	EC	9
774	APL	Costa Rica Subseafloor Microbial Mats	BF	5+6
777	APL2	Okinawa Trough Quaternary Paleoceanography	CO	2
778	Full2	Tanzania Margin Paleoclimate Transect	CO+BF	1+2+3+4+7
781	MDP	Hikurangi subduction margin	EM	12+14+11

781A	Full	Hikurangi: observatory	EM	12+14+11
782	Pre	Kanto Asperity Project: Plate Boundary Deformation	EC+EM	11+12
783	APL	Indian Monsoon history	CO	1+3
784	Full	Amundsen Sea Ice Sheet history	CO	1+2
785	APL	Gulf of Mexico SCIMPI field trail	BF	?
786	APL	Alaskan Glacial and Ocean History	CO	1+2
787	RRD	Japan Trench Fast Earthquake Drilling	EM	12
791	APL2	Continental Margin Methane Cycling	BF+EM	5+13
792	Pre	Shiva Impact Structure	CO+EC	1+7
793	CPP	Arabian Sea Monsoon	CO+EC	1+3+9
794	Pre	Arctic slope stability	EM	12
795	Full	Indian Monsoon Rainfall	CO	1+3
796	Full	Ligurian Landslide	EM	12+14
797	Pre	Alaska Beaufort Margin	BF+CO+EM	2+4+5+7+12+13+14
798	MDP	Gulf of Lion Drilling	BF+CO	4+5+6+7
799	Full	Western Pacific Warm Pool	CO	1+3
800	Full	Indian ridge Moho	EC	9
801	Pre	Brazil Argentina Margin Microbiology	BF+CO	1+4+5+6
802	Pre	Marmara tectonics	EM	12
803	Pre	Greenland Ice Sheet	CO	1+2
804	Pre	Antarctic Cryosphere Evolution	CO	1+2
805	MDP	MoHole to the Mantle	BF+EC	6+8+9
806	Pre	Beaufort Gas Hydrate	CO	4