JR Facility Science Evaluation Panel Meeting 6-9 January 2014 Scripps Institution of Oceanography, La Jolla, CA USA

Science Subgroup

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Kathleen Marsaglia California State University Northridge

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Attended via web-teleconference

Unable to attend

1

¹ Alternate for Amelia Shevenell

Site Subgroup

James Austin University of Texas at Austin
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Dae Choul Kim Pukyong National University

Sebastian Krastel Christian-Albrechts University of Kiel Jiabiao Li Second Institute of Oceanography David Mallinson East Carolina University (SEP Co-Chair)

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Gabriele Uenzelmann-Neben Alfred Wegner Institute

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Liaisons and Observers

Jamie Allan NSF Kan Aoike JAMSTEC

Rita Bauer IODP SSO - UCSD/SIO

Keir Becker IODP Forum Chair - University of Miami

Peter Blum USIO - TAMU

Dru Clark IODP SSO - UCSD/SIO

Sarah Davies ESO - University of Leicester

David Divins USIO – Consortium for Ocean Leadership

Nobu Eguchi JAMSTEC

Holly Given IODP SSO - UCSD/SIO
Karsten Gohl ECORD Facility Board Chair

Susan Humphris JOIDES Resolution Facility Board Chair - Woods Hole Oceanographic Institution

Tom Janecek NSF

Barry Katz IODP EPSP Chair - Chevron

Yuzuru Kimura Japan Ministry of Education (MEXT)

Adam Klaus USIO - TAMU Leah Levay USIO - TAMU

Charna Meth USSSP – Consortium for Ocean Leadership

Dick Norris IODP SSO - UCSD/SIO

Attended via web-teleconference

Unable to attend

² Alternate for Ken Ikehara

2

Liaisons and Observers (cont.)

Jeff Schuffert USSSP – Consortium for Ocean Leadership

Angela Slagle USIO - TAMU

Karen Stocks IODP SSO - UCSD/SIO Aaron Sweeney IODP SSO - UCSD/SIO

Shouting Tuo IODP China - Tongji University

Michiko Yamamoto IODP SSO - UCSD/SIO

Attended via web-teleconference

09:00 1. Welcome and Introductions

1.1 Welcome to Scripps Institution of Oceanography

Dick Norris, IODP Science Support Office (SSO) Principal Investigator, and Holly Given, SSO Executive Director, welcomed the SEP, Liaisons, and Observers to Scripps Institution of Oceanography.

1.2 Call to order and self-introductions

SEP Co-Chair Dick Kroon called the meeting to order at 9:10 am and asked attendees to perform self-introductions.

1.3 Logistical Announcements

Holly Given and Rita Bauer (IODP SSO Project Coordinator) outlined logistics for the meeting. Dick Kroon noted that several people were absent because of weather and said there would be some resulting adjustments to the schedule.

1.4 Approval of Meeting Agenda

With a few comments about knowing when proposals will be discussed and how to balance the review of the proposals, the agenda was approved.

09:40 2. Reports from IODP Entities

2.1 Perspectives from the JRFB Chair

Susan Humphris, JRFB Chair, reviewed the:

- Role of the JRFB in the IODP program
- Membership of the JRFB
- Approved 2014 expedition schedule and the recommended 2015 expedition schedule
- Roles and responsibilities of the science and site panels
- Justification for the merger of the PEP and SCP panels into the Science Evaluation Panel
- Objectives to which the JOIDES Resolution Facility Board plans
- Guidelines for the development of commercial work on the JOIDES Resolution
- Criteria for transferring riserless drilling operations from the JOIDES Resolution to the Chikyu
- Ways the SEP can best assist the JOIDES Resolution Facility Board

More information is provided in Humphris' powerpoint presentation, which is posted at iodp.org.

Humphris pointed out that the FY16 schedule will be determined at the JRFB's April 2014 meeting, and that the FY16 (US Fiscal Year 2016) schedule is already the third year of the five years of the new JR operations contract. One of the FY15 expeditions is a complementary project proposal (CPP) where another entity/country provides about 70% of the funding, which is important for stable funding for the new IODP program. Humphris asked the panelists to look:

- At the proposals and determine if the drilling time is justified
- For windows in which we might book short term commercial work (1-3 weeks)
- For riserless drilling that appropriately could be transferred to Chikyu

Humphris asked that the panelists provide strategic advice regarding optimization of the science return (meaning a major impact in achieving some number of the objectives of the science plan) in a 5-year program scenario. The JRFB welcomes advice regarding which proposals will be key to impact on the 5-year program. Kroon stated that the panel plans to address this on Thursday as part of the summary review.

Humphris asked for a prioritization of the proposals that the panel feels are key in meeting science plan objectives; not a ranking, but some indication of the degree of impact on meeting the science plan objectives. Keir Becker asked how important the prioritization of challenges to meeting the science plan (developed in Denver) should be to this panel? Humphris stated that those priorities were developed for the 10-year timeframe, not the 5-year this panel should use, but the panel will have to consider that those priorities will be used as input to the next JRFB meeting.

2.2 Report from NSF and Status of the JR Facility Jamie Allan highlighted:

- The importance of international contributions; including complementary project proposals (CPPs).
- The National Science Board (NSB) approval for 5 years of JOIDES Resolution operations for the IODP under a new Cooperative Agreement with Texas A&M University
- The importance for the science community to provide input to the National Academy-led Decadal Survey of Ocean Sciences, as the Survey's recommendations to NSF will heavily influence the amount of resources made available by NSF for scientific ocean drilling.
- NSF's award of a new Cooperative Agreement to UCSD for the IODP Science Support Office (SSO).
- The transfer of the NSF/OCE/ODP to the Integrative Programs Section of NSF (Bob Houtman, Section Head) which reflects NSF's focus on managing the JOIDES Resolution as a Facility rather than a Program.

More information is provided in Allan's powerpoint presentation, which is posted at iodp.org.

2.3 JR Activities/ IO Report

David Divins provided a review of *JOIDES Resolution* expeditions and USIO Education and Outreach activities since the June 2013 PEP/SCP meeting in Santa Cruz, CA. This included the:

- Details, objectives, and results of the expeditions completed (341 and 346)
- Scheduled expeditions for 2014
- Details of the routine (5-year) dry-dock maintenance
- Proposed expeditions and schedule for 2015
- School of Rock workshop topics and details
- E&O activities in Canada and Korea
- USIO newsletters and publications

More information is provided in Divins' powerpoint presentation, which is posted at iodp.org.

Divins also summarized the status of discussions with the government of India on the Arabian Sea CPP, currently scheduled as Expedition 355 in (April/May) FY15.

2.4 Mission-Specific Platforms / IO Report (ECORD/ESO)

Karsten Gohl, ECORD FB Chair, provided an overview of ECORD activities and perspective for the SEP's work. These included:

- Recent ECORD development and news
- Proposal guidelines
- ECORD's preferences regarding the call for proposals
- ECORD's policies on APLs and CPPs for MSP
- Scheduling of the next MSP expeditions
- Timing of proposal flow from SEP to the ECORD Facility Board

More information is provided in Gohl's powerpoint presentation, which is posted at iodp.org.

Gohl pointed out that the SEP needs to work out the timing of their meetings to make sure ECORD can consider the forwarded proposals in a timely fashion.

Sarah Davies presented a summary of Expedition 347 (Baltic Sea Paleoenvironment). She reviewed the schedule/potential schedule for 2014/2015, the planning for upcoming expeditions drilling the Chicxulub Impact Crater and Atlantis Massif Seafloor, and the engineering development tasks scheduled for 2014. Davies also stated that the MeBo 200 sea floor drilling rig (developed by MARUM) was delivered to MARUM, and the British Geological Survey (BGS) and MARUM will collaborate to produce tools that can be used on both the MeBo and the BGS drill. Gohl noted that the MeBo is scheduled to be tested in port this summer, and its test cruise will likely happen about 6 months later. Davies also discussed the global distribution of MSP proposals, and summary of ECORD Summer School topics.

More information is provided in Davies' powerpoint presentation, which is posted at iodp.org.

2.5 Chikyu Activities/ IO Report

Yuzuru Kimura and Nobu Eguchi presented the following MEXT and CDEX IODP information:

- Results of the Second Midterm Evaluation (November 2013)
- Budgetary situation for fiscal year 2014
- Chikyu IODP Board (CIB) membership, mandate, and 2013 meeting consensus items
- New concepts in Chikyu proposal review and expedition planning processes
- Expedition 348 plans and progress

Kimura noted that the next CIB meeting had been scheduled for February, but is postponed until mid-year.

Nobu Eguchi pointed out that the CIB funds a proposal workshop each year as part of the proposal review process. The CIB's implementation of this step requires that the SEP (prior to full proposal acceptance by the SEP) tell the CIB if a proposal's science is good enough to go to the CIB. The CIB will then determine if they will move forward with the proposal (workshop, etc.). Dick Kroon noted that the SEP doesn't always sync their process with the CIB's activities, and the group noted that the process for riserless proposals (and their need or lack of need for a workshop) had yet to be discussed by the CIB.

More information is provided in the Kimura/Eguchi powerpoint presentation posted at iodp.org.

13:15 3. The Proposal Review and Advisory Process

3.1 Highlights from the SEP Terms of Reference

Dick Kroon reviewed the SEP Terms of Reference for the panel members.

3.2 Review Procedures - Concept for expected integrated SEP review / form

Dick Kroon highlighted the review procedures, proposal evaluation criteria, rating levels, current proposal status, and proposal WDs/Conflicts of Interest (as summarized in the following table). David Mallinson discussed the new guidelines and general requirements for site survey data (emphasizing flexibility), and the review procedures and characterization of site survey data.

New ID	Short Title	PI	WD1 (Science)	WD2(Science)	WD3 (Site)	WD4 (Site)	COI
567-Full4	South Pacific Paleogene	Thomas	Bralower		Flood	Huuse	
696-Add	Izu-Bonin-Mariana Deep Forearc Crust	Julian Pearce	Neal		Pandey	Sawyer	
702-Full2	Southern African Climates	Rainer Zahn	Christensen		Burberry	Kawamura	Uenzelmann-Neben
708-Full	Central Arctic Paleoceanography	Ruediger Stein	Webster	Romans	Kim	Flood	O'Regan
751-Full2	West Antarctic Ice Sheet Climate	Robert McKay	Miller	Marsaglia	Huuse	Reis	
781A-Full	Hikurangi: observatory	Saffer	Strasser		Pockalny	Mallinson	Marsaglia, McNeill
781B-Full	Hikurangi: Riser	Laura Wallace	Strasser	Ferre	Mosher	Pandey	
795-Add	Indian Monsoon Rainfall	Clemens	Singhvi		Uenzelmann-N	Mallinson	Clift
799-Full2	Western Pacific Warm Pool	Yair Rosenthal	Yokoyama	Robinson	Sun	Clennell	
807-Full	Indonesian Throughflow	Gallagher	Clift		Sawyer	Krastel	
811-Full	Cape Fear Slope Stability	Peter Flemings	McNeill	Morishita	Clennell		Sawyer
813-Full	Antarctic Cenozoic Paleoclimate	Trevor Williams	Bralower	Bahk	Pockalny	Austin	
819-APL2	Arabian Sea OMZ	Arun Deo Singh	Robinson	Ikehara	Kawamura	Flood	Pandey
820-Full	Maldives monsoon	Christian Betzler	Webster	Yokoyama	Huuse	Kim	
821-Full2	South-East Pacific Paleoceanography	Rainer Gersonde	Christensen	Bralower	Sawyer	Pandey	Uenzelmann-Neben
823-Full2	Bengal Bay monsoon	Tilmann Schwenk	Smith	Singhvi	Burberry	Mosher	Clift, Strasser
830-APL2	Scott Plateau Subseafloor Life	Steven D'Hondt	Heuer	Takano	Uenzelmann-N	Kawamura	Pockalny
834-Pre	Agulhas-Transkei Transect	Gabriele Uenzelmanı	Tian	Robinson	Burberry		Uenzelmann-Neben
835-pre	Japan Trench Tsunamigenesis	Shuichi Kodaira	McNeill	Tarduno	Austin		Strasser
836-APL	Continental Margin Mathane Cycling	Alberto Malinverno	Takano	Sylvan	Reis Clennell		Heuer
837-Full	Sumatra Seismogenic Zone	Lisa McNeill	Ferre	Strasser	Reis	Burberry	McNeill, Austin, Clift
838-CPP	SCS Lithosphere Thinning	Zhen Sun	Tarduno	Ishimaru	Austin	Uenzelmann-N	Sun
839-Full	Amundsen Sea Ice Sheet history	Karsten Gohl	O'Regan	Guizan Silva	Flood	Sun	Uenzelmann-Neben
840-Pre	Niger Transform Margin	Thomas Wagner	Marsaglia	Rabe	Sun		Biddle
841-APL	Creeping Gas Hydrate Slides	Ingo Pecher	Obana	McNeill	Clennell	Mosher	Strasser
842-Pre	Madeira Abyssal Plain Hydrogeology	Robert N. Harris	Delacour	Biddle	Huuse		Sylvan
843-Pre	Amazon margin drilling	Paul Arthur Baker	Clift	Smith	Mallinson		
844-Pre	Comet Nucleus Material	Michael Jaye	Geldmacher	Sun	Mallinson		
845-APL	Agulhas LGM Density	Jess Adkins	Yokoyama	Miller	Sawyer		
846-APL	Falkland water depth record	Victoria L Peck	Hovan	Tian	Krastel	Kim	
847-Pre	Drake Passage paleoenvironment	Michael E Weber	Romans	O'Regan	Kawamura		
848-Pre	Weddell Sea History	Michael E Weber	Bralower	Rabe	Krastel		
849-APL	Indian Peninsula Paleoclimate	Liviu Giosan	Bahk	Christensen	Mallinson	Pockalny	Clift, Pandey

:Site Survey Data submitted with/without Addendum
:Came back from external reviews
:Revised propsoals
:New proposals

Kroon emphasized that the panel's goal is, if possible, to work with proponents to get each proposal to the "excellent" stage, he encouraged panelists to be flexible when reviewing CPPs, and he noted that, while he would like to keep procedures as they are, they are always open for discussion.

Barry Katz stressed the EPSP's need for alternate sites on all pre- and full proposals. Without alternate sites, the EPSP risks gutting the proposal's science, if they deem the original sites are not viable.

The Ancillary Project Letters (APLs are scoped for less than a "leg") are unusual in that they are not going to external review. While it's more cost effective to run a two-month leg, the Board could select a few APLs with a one-month proposal to create a full expedition with good science.

The panelists requested that:

- A field be added to the proposal form for entry of any previous proposal number(s) to which the current proposal might be related. Michiko Yamamoto (SSO Proposal Manager) pointed out that this already exists.
- WDs establish and maintain communication with the proponents throughout the year. Dick committed to passing on to the WDs any communication he receives from proponents. Dave Mallinson recommends that WD communication with proponents be made a requirement.
- Review letters tell proponents to direct their questions to all the WDs assigned to their proposal.
- Full proposals with external reviews be subject to a request for revision. Dick stated that this is possible either through an extended response letter and/or an addendum in case a site is moved..
- For *Chikyu* riser proposals a "holding bin" remain available. Kroon agrees, stressing that the SEP must strive to obtain a complete proposal package as soon as possible.

Kroon said that the Facility Boards asked SEP to identify proposals that could be fast-tracked.

15:00 4. Science Support Office Report

4.1 Proposal and Site Survey Data Statistics

Michiko Yamamoto (SSO Proposal Manager) gave a summary of the proposals as detailed in the following tables.

Science Theme	Number of Proposals
Climate and Ocean	51
Biosphere Frontiers	12
Earth Connections	20
Earth in Motion	23
Ocean	
Arctic	8
Atlantic	22
Indian	22
Pacific	46
Southern	7
Mediterranean	1
Active Proposal Status	
SEP	59
FB	43
Holding Bin	4
Platform	Number of
	Proposals
JOIDES Resolution	75
Chikyu	8
MSP	15

Multiple	8
IODP Member Country	Number of
	Proposals
ANZIC	9
China	2
ECORD	34
India	2
Japan	11
Korea	1
US	47

IODP Member Country	Number of
	proponents
ANZIC	54
Brazil	5
China	27
ECORD	414
India	22
Japan	122
Korea	11
US	396
Other	61

More information is provided in Yamamoto's powerpoint presentation, which is posted at iodp.org.

4.2 Submission system update

Holly Given gave a summary of Science Support Office activities, focusing on the recent proposal and site data submission deadlines. Holly indicated that 30% of the site survey data files came in after the submission deadline, some by several weeks. Therefore, the SSO will likely start enforcing submission deadlines more formally, with exceptions being considered on a case-by-case basis.

Dave Mallinson asks the panel to please let him know what the SSO might do to make the review process easier or better.

4.3 Other office functions

Holly's summarized a Denial of Service (DoS) attack on the Site Survey Data Bank (SSDB) in December 2013, and preventative actions going forward, and she noted that the Facility Board and Panel memberships are current on iodp.org.

More information (for section 4.2 and 4.3) is provided in Given's powerpoint presentation, which is posted at iodp.org.

16:00 5. Watchdog Preparation of Proposal reviews

Dick Kroon reviewed the roles of each Watchdog (WD) and how review letters are produced. If any WD was unable to attend, the remaining WD assumes the tasks of both WDs. Dick encouraged everyone to declare their COIs as early as possible. The SEP Chairs make the final decision regarding what constitutes a conflict of interest.

Tuesday	7th of January 2014	09:00-17:30
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09:00 6. Review of Proposals

6.1. Review of submitted new site survey data

Because several key WDs were not in attendance, the team started their review with the previously submitted proposals.

17:30 Meeting adjourned for the day

Wednesday	8th of January 2014	09:00-17:30

09:00 6. Review of Proposals

6.1. Continued

The few remaining previously submitted proposals were completed before the panel began working on the new proposals.

17:30 Meeting adjourned for the day

Thursday 9th of January 2014

09:00 6. Review of Proposals

6.2 Continued

The new proposals were completed before the panel began working remaining agenda items (see below).

13:00 7. Summary of SEP reviews

New ID	Short Title	PI	Stage	Ship	Theme	Destination
567-Full4	South Pacific Paleogene	Thomas	JRFB	NR	СО	JRFB
696-Add	Izu-Bonin-Mariana Deep Forearc Crust	Julian Pearce	JRFB	JR	EC	JRFB
702-Full2	Southern African Climates	Rainer Zahn	НВ	JR	СО	Holding Bin
708-Full	Central Arctic Paleoceanography	Ruediger Stein	SEP	MSP	СО	External review
751-Full2	West Antarctic Ice Sheet Climate	Robert McKay	SEP	JR	CO	External review
781A-Full	Hikurangi: observatory	Saffer	JRFB	NR	EM	JRFB
781B-Full	Hikurangi: Riser	Laura Wallace	SEP	Chikyu	EC	CIB
795-Add	Indian Monsoon Rainfall	Clemens	JRFB	NR	СО	JRFB
799-Full2	Western Pacific Warm Pool	Yair Rosenthal	SEP	JR	СО	External review
807-Full	Indonesian Throughflow	Gallagher	JRFB	NR	СО	JRFB
811-Full	Cape Fear Slope Stability	Peter Flemings	SEP	JR	EM	Revise
813-Full	Antarctic Cenozoic Paleoclimate	Trevor Williams	SEP	MSP	СО	ECORD-FB
819-APL2	Arabian Sea OMZ	Arun Deo Singh	SEP	JR	CO	Holding Bin
820-Full	Maldives monsoon	Christian Betzler	SEP	JR	СО	External review
821-Full2	South-East Pacific Paleoceanography	Rainer Gersonde	SEP	JR	СО	Deactivate
823-Full2	Bengal Bay monsoon	Tilmann Schwenk	SEP	JR	Со	Deactivate
830-APL2	Scott Plateau Subseafloor Life	Steven D'Hondt	SEP	JR	BF	Holding Bin
834-Pre	Agulhas-Transkei Transect	Gabriele Uenzelmann-Neben	SEP	JR	EC	Develop Full
835-pre	Japan Trench Tsunamigenesis	Shuichi Kodaira	SEP	Chikyu	EM	Develop Full
836-APL	Continental Margin Mathane Cycling	Alberto Malinverno	SEP	JR	EM	Revise
837-Full	Sumatra Seismogenic Zone	Lisa McNeill	SEP	JR	EM	External review
838-CPP	SCS Lithosphere Thinning	Zhen Sun	SEP	JR	EC	Revise
839-Full	Amundsen Sea Ice Sheet history	Karsten Gohl	SEP	JR	СО	External review
840-Pre	Niger Transform Margin	Thomas Wagner	SEP	JR	СО	Develop Full
841-APL	Creeping Gas Hydrate Slides	Ingo Pecher	SEP	JR	EM	Revise
842-Pre	Madeira Abyssal Plain Hydrogeology	Robert N. Harris	SEP	JR	EC	Deactivate
843-Pre	Amazon margin drilling	Paul Arthur Baker	SEP	JR	BF	Deactivate
844-Pre	Comet Nucleus Material	Michael Jaye	SEP	JR	EC	Deactivate
845-APL	Agulhas LGM Density	Jess Adkins	SEP	JR	СО	JRFB
846-APL	Falkland water depth record	Victoria L Peck	SEP	JR	СО	Revise
847-Pre	Drake Passage paleoenvironment	Michael E Weber	SEP	JR	СО	Develop Full
848-Pre	Weddell Sea History	Michael E Weber	SEP	JR	СО	Develop Full
849-APL	Indian Peninsula Paleoclimate	Liviu Giosan	SEP	JR	СО	Holding Bin

:Site Survey Data submitted with/without Addendum		
:Came back from external reviews		
:Revised propsoals		
:New proposals		

HB: Holding Bin

8. Review of motions and consensus items

There were no motions or consensus items from this meeting.

9. Schedule of next SEP meeting

After a moderate amount of discussion and a new Doodle poll, the panel and chairs decided on the week of June 23 as the date for the next meeting. The location was tentatively set as Rutgers University.

10. All Other Business (AOB)

Per the previously discussed request, the SEP recommends that proposals 708, 799, and 837 be fast-tracked for external review such that they might be presented to the JRFB at their April 2014 meeting. The panel recommended that Proposal 820 be fast-tracked to external review after they obtain their new data (August 2014).

Dick Kroon asked the panel to nominate one or more scientists to serve as co-chiefs for Expedition 813 and the panel nominated/recommended Trevor Williams, Carlotta Escutia Dotti, and Tina Van de Flierdt

Dick Kroon asked for feedback from the panel regarding the review process and how it might be improved. The panelists stated the following:

- More discussion time between WDs (in smaller groups) would be appreciated.
- Some panelists might be more willing to speak out in smaller / breakout groups.
- Break up the day and the format to include both plenary and breakout sessions.
- Small groups with intensive discussion would be more productive.
- Give the panelists the sequence of proposal discussion in advance to permit them to prepare appropriately.
- Start the review with the full proposals, then review the pre-proposals, and end with the APLs.
- A three-day format is preferred over the current four-day format.
- Keep all speakers to 10 minutes and/or reduce the number of slides permitted in each presentation.

Dave Mallinson pointed out that the SEP Site subgroup is smaller than the Science subgroup and it would be difficult if not impossible to have one or more Site panelist in all of the breakout groups if breakout groups were implemented. Other participants suggested that this could be addressed by addressing the proposals in smaller / operable chunks – do six in plenary and then use breakouts to cover those six.

16:00 Meeting adjourned