

**IODP Science Steering and Evaluation Panel
4th Meeting, 16-19 May 2005
Tongji University, Shanghai, China**

Executive Summary

1. Joint Session, Reports:

1.1. Introduction of panel members, liaisons, and guests.

1.2. Opening remarks by local host.

Zhimin Jian and Zhifei Liu welcomed attendees and summarized logistics. Gilbert Camoin thanked the hosts for organizing the meeting and field trip to Suzhou on May 15.

1.3. Approval of last SSEPs meeting minutes

SSEP Consensus 0505-1: The SSEP approves the minutes of their third meeting on 16-19 November 2004 in Nago, Japan.

1.4. Approval of SSEP meeting agenda

SSEP Consensus 0505-2: The SSEP approves the revised agenda of their fourth meeting on 16-19 May 2005 in Shanghai, China.
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1.5. SPPOC and SPC reports

Mike Coffin provided an overview of how the Science Advisory Structure is organized and how it is being restructured. In short, the 3rd SPPOC meeting was held in San Francisco during December 2004. The 5th SPC meeting was held in Lisbon, March 14-17, 2005. As the first priority in scheduling MSP operations, SPC recommends implementing only highly ranked proposals, even if that means not conducting an MSP operation in a particular year. All fully or partially unscheduled proposals forwarded to the Operations Task Force as part of the highest priority Group 1 should remain there for drilling schedule scenarios for FY2006 and beyond. The SPC global ranking exercise resulted in a grouping of three proposals that will be forwarded to the Operations Task Force for drilling schedule scenarios for FY2007 and beyond: 603C-Full NanTroSEIZE Plate Interface; 595-Full3 Indus Fan; and 626-Full2 Pacific Equatorial Age Transect. None of the APLs considered by SPC was forwarded to the Operations Task Force.

1.6. SSP report

Xuelin Qiu reported on the 4th meeting of the SSP, which was held in Durham, England on 21-23 Feb 2005. The next meeting of SSP will be in Sapporo, Japan on 12-14 September 2005.

1.7. JOI Alliance (USIO) report

Adam Klaus reported on the USIO and JOI Alliance activities. He provided highlights of recently completed Expeditions The *JOIDES Resolution* expedition schedule will conclude in January 2006 with demobilization. The USIO Phase II Scientific Ocean Drilling Vessel is currently facing a 3-year funding model.

1.8. ESO report

Tim Brewer reported on the status of the forthcoming Tahiti Sea Level Expedition 310, which will be drilled using a mission specific platform.

1.9. IODP-MI report

Jeff Schuffert provided an update concerning IODP-MI activities and staffing. The web site has been consolidated <www.iodp.org>. Proposals submitted for April 2005 included 10 preliminary (8 new, 2 revised), 19 full (6 new, 13 revised), 5 externally reviewed (21 reviews, 5 response letters), and 1 ancillary project letter. Panel membership will be affected by a startling 16 rotations after the May 2006 meeting.

1.10. CDEX report

Aoike-san updated the panel on the CDEX activities. The shakedown/training cruises will commence August 2005 and extend into USFY07. Progress continues in setting up lab facilities and core storage at the Kochi Core Center. The SIO7 data management system is also operational <sio7.jamstec.go.jp>.

1.11. STP and EDP referrals

Mike Lovell, chair of STP, presented suggestions for improving communication among SSEP, STP, and EDP. A simple check-box needs to be added to the proposal review form. The form should include the following:

Do the scientific objectives require:

- New in situ technology or engineering?
- Observatory monitoring?
- Non-standard sampling procedures or measuring technology?

If the answer is YES, then the proposal will be referred to the STP and/or EDP chairs.

2. Meeting Overview

2.1. Reviewing process:

Mike Underwood discussed the SSEP mandate, conflict-of-interest rules, watchdog responsibilities, organization and objectives of breakout sessions, the purpose and content of watchdog reports during general sessions, the content of final reviews for proposals forwarded to SPC, the translation and intent of the 5-star grouping system, procedures for rejecting proposals, and issues surrounding ancillary project letters.

A total of 35 proposals were reviewed during the meeting: 5 externally reviewed, 14 revised proposals, 15 new proposals, and 1 APL; all are summarized in the table below. Panel members were subdivided into four breakout sessions for detailed discussions of the proposals: B.S.1: *Palaeoceanography/Palaeoclimatology + Tectonic-Climate Links* (chaired by G. Camoin); B.S.2: *Solid Earth/Geodynamics* (chaired by Arai-san); B.S.3: *Fluid Flow/Deep Biosphere* (chaired by M. Underwood); combined session for *CRISP Seismogenic Zone* (chaired by M. Underwood). Proposal 678-Full was discussed jointly by B.S.1 and B.S.2.

The conflict of interest rules and confidentiality requirements were respected during the entire review procedure (breakout sessions, general sessions and grouping). The table below lists the conflicted SSEP members, liaisons and guests who left the room during the review of the relevant proposals. In all cases, the conflicts arose because the member/liaison is a proponent on the given proposal and/or CDP.

Proposal No	Short Title	Lead Proponent	COI
537-CDP6	CRISP Overview	von Huene	Fulthorpe
537B-Full2	CRISP Phase A	Vannucchi	Fulthorpe
537B-Full2	CRISP Phase B	Ranero	Fulthorpe
601-Full2	Okinawa Trough Deep Biosphere	Takai	Takai, Ishibashi
603D-Full2	NanTroSEIZE Observatories	Screaton	Underwood, Saffer, Obana, Henry, Morgan
605-Full2	Asia Monsoon	Tada	Tada
654-Full2	Shaksky Rise Origin	Sager	Klaus
661-Pre	Newfoundland Sediment Drifts	Norris	Norris
667-Full	NW Australian Shelf Eustasy	Fulthorpe	Fulthorpe
674-Pre	Izu-Bonin Arc 4D Evolution	Tamura	Yamazaki, Ishibashi, Ishizuka
677-Full	Mid Atlantic Ridge Microbiology	Edwards	Edwards, Bach

The course of action regarding each of the 35 proposals reviewed during the Shanghai meeting was achieved by consensus. The dispositions are as follows:

- Pre-Proposals for revision = 4.
- Pre-Proposals and APL to be developed to Full proposals = 6.
- Full-Proposals for revision = 11.
- Full-Proposals sent out for external review = 10.
- Full-Proposals forwarded to SPC = 2.
- Pre-Proposals deactivated = 1.
- Full Proposals deactivated = 1.

A 5-star grouping was assigned to each of the two proposals forwarded to the SPC. Each grouping was obtained by consensus of the full panel.

2.2. Working group

One working group was formed to consider further a list of potential PPGs and DPGs that was compiled by SSEPs members during the May 2004 meeting in Granada. The working group conducted its deliberations by e-mail. Members of the working group are: Arai-san, Erba, Thurow, Norris, Dickens, Backman, Stein, Chen, Tada-san, Saffer, and Erzinger.

3. Discussions and Recommendations

3.1. Ancillary project letters

The subject of APL submission and review was discussed during the PANCH meeting in Lisbon. The opinion expressed by SSEP members is for co-chairs to reject late submissions unless there is sound justification for proponents not hitting the deadline.

3.2. Project scoping

This discussion involved the role that SSEP should play in evaluating and nurturing a CDP after a Project Scoping Group is formed. Another opinion expressed by SSEP members is for the panel to cease its involvement once the PSG is formed, expect for cases in which a new proposal enters the SAS while scoping is ongoing for mature proposals.

3.3. Interplay with SSP

This discussion started with a review of the mandate for Site Survey Panel and focused on the overlapping responsibilities of SSEP and SSP. One suggestion was for SSEP watchdogs to contact SSP watchdogs after having read the most recent set of panel comments.

SSEP watchdogs should also “red-flag” proposals that appear to be particularly problematic, for SSP attention during its next meeting.

3.4. Nominations of panel members and co-chairs

It is important for SSEP to include a distribution of expertise among co-chairs that reflects the three science themes of the LRP. Another opinion of SSEP members is that institutional multiples should be avoided, but the final decision should be left to the national/consortium committees.

3.5. Observatory science and ultra-deep drilling

In the interest of time, this discussion was deferred to the next SSEP meeting.

3.6. Selection of meeting locations

SSEP members are content with the existing balance between travel convenience and opportunities for scientific and cultural exchange.

3.7. Report from MSPHDS participants

Five students from the Minorities Striving and Pursuing Higher Degrees of Success (MSPHDS) program in Earth system science attended the SSEP meeting. Mentors from SSEP included Greg Ravizza, Dick Norris, Jerry Dickens, Shemin Ge, and Gerry Iturrino.

3.8. Recommendation for co-chair

Jörg Erzinger nominated Rüdiger Stein to serve as the next co-chair of SSEP, replacing Gilbert Camoin. The nomination of Stein was approved by vote of the full panel.

SSEP Recommendation 0505-3: The SSEP recommends that SPC consider Rüdiger Stein for appointment as the next co-chair of SSEP.

4. Resolutions for outgoing SSEP members

Resolutions were presented thanking (and roasting) outgoing SSEP Co-Chair Gilbert Camoin and outgoing SSEP members Rolf Pedersen, Katrina Edwards, Shemin Ge, and Nina Rosenberg.

5. Next SSEP meetings

Greg Ravizza graciously announced that the 5th SSEP meeting will be during November 2005 in Hawaii. Jörg Erzinger kindly extended an invitation for the 6th SSEP meeting to be held in Potsdam, Germany. Tentative dates are 15-18 May 2006.

6. Conclusion

The co-chairs Shoji Arai, Mike Underwood, and Gilbert Camoin thanked again the hosts Zhimin Jian and Zhifei Liu for their excellent logistical arrangements and warm hospitality throughout the meeting. Watchdogs submitted drafts of all proposal reviews to the IODP-MI Office representatives (Jeff Schuffert and Nobu Eguchi) before the meeting ended.

**IODP Science Steering and Evaluation Panel
4th Meeting, 16-19 May 2005
Tongji University, Shanghai, China**

Minutes

1. Joint Session, Reports:

1.1. Introduction of panel members, liaisons, and guests.

1.2. Opening remarks by local host.

Zhimin Jian and Zhifei Liu welcomed attendees and summarized logistics. Gilbert Camoin thanked the hosts for organizing the meeting and field trip to Suzhou on May 15.

1.3. Approval of last SSEPs meeting minutes

SSEP Consensus 0505-1: The SSEP approves the minutes of their third meeting on 16-19 November 2004 in Nago, Japan.

1.4. Approval of SSEP meeting agenda

SSEP Consensus 0505-2: The SSEP approves the revised agenda of their fourth meeting on 16-19 May 2005 in Shanghai, China.

1.5. SPPOC and SPC reports

Mike Coffin provided an overview of how the Science Advisory Structure is organized and how it is being restructured. Among the significant changes: there is now only one SSEP; the Operations Task Force has replaced OPCOM; SciMP has been transformed into the Scientific Technology Panel; the Technology Advice Panel has been transformed into the Engineering Development Panel; and the Industry Liaison Panel has been replaced by a PPG. Membership on the SSEP will be twice that of a normal panel, with both leadership and membership reflecting the three major themes of the IODP Initial Science Plan: *Deep Biosphere and Subseafloor Ocean; Environmental Change, Processes, and Effects*; and *Solid Earth Cycles and Geodynamics*.

The 3rd SPPOC meeting was held in San Francisco during December 2004. There were 16 motions and consensus items. Key outcomes included a model for distribution of cores at three repositories (Bremen, Gulf Coast, and Kochi), approval of the revised annual program plan for FY05/06, revision of the Science Advisory Structure (see above), long-range planning, a plan for performance evaluation of the IODP-MI, scientific program assessment, revision of publication obligations for shipboard scientists, and a Health, Safety and Environmental Policy. The new SAS will be phased in by the end of summer 2005.

The 5th SPC meeting was held in Lisbon, March 14-17, 2005. There were 36 motions and consensus items. As the first priority in scheduling MSP operations, SPC recommends implementing only highly ranked proposals, even if that means not conducting an MSP operation in a particular year. All fully or partially unscheduled proposals forwarded to the Operations Task Force as part of the highest priority Group 1 should remain there for drilling schedule scenarios for FY2006 and beyond. These proposals include: 477-Full3 Okhosk/Bering Sea; 482-Full3 Wilkes Land; 519-Full2 South Pacific Sea Level; 545-Full3 Juan de Fuca; 553-Full2 Cascadia Hydrates; 564-Full New Jersey Sea Level; 589-Full3 Gulf of Mexico Overpressures; 600-Full Canterbury Basin; 603A-Full2 and 603B-Full2 NanTroSEIZE; 621-Full Monterey Bay Observatory. The SPC global ranking exercise

resulted in a grouping of three proposals that will be forwarded to the Operations Task Force for drilling schedule scenarios for FY2007 and beyond: 603C-Full NanTroSEIZE Plate Interface; 595-Full3 Indus Fan; and 626-Full2 Pacific Equatorial Age Transect. None of the APLs considered by SPC was forwarded to the Operations Task Force. The SPC considered modifications to the proposal confidentiality policy. The highest priority for engineering development in FY06 will be the JPIO Long Term Monitoring System; other items for development include the USIO Pulsed Telemetry Module and USIO Common Bottom-Hole Assembly. SPC liaisons to SSEP are now Keir Becker, (USA) Mike Coffin (Japan), Kawahata-san (Japan), Terry Quinn (USA), and Chris MacLeod (ECORD). Mike Coffin ended his presentation by citing favorable news releases that have appeared recently in *Science* and *EOS*.

1.6. SSP report

Xuelin Qiu reported on the 4th meeting of the SSP, which was held in Durham, England on 21-23 Feb 2005. He summarized the site characterization completeness classification used by this panel and gave the list of the 42 proposals that it reviewed. He also indicated that Dale Sawyer was nominated to serve as the new Vice Chair. The next meeting of SSP will be in Sapporo, Japan on 12-14 September 2005.

1.7. JOI Alliance (USIO) report

Adam Klaus reported on the USIO and JOI Alliance activities. He provided highlights of recently completed Expeditions 304/305 (Oceanic Core Complex), 306 (North Atlantic Climate 2), and 307 (Porcupine Basin). The *JOIDES Resolution* expedition schedule will conclude in January 2006 with demobilization. Expedition staffing is finished for Expedition 308 (Gulf of Mexico) and is progressing for 309/313 (Superfast Spreading), 311 (Cascadia Hydrates), and 312 (Monterey Bay Observatories). Klaus described some of the unusual complexities of those expeditions and outlined several contingency plans. The USIO Phase II Scientific Ocean Drilling Vessel is currently facing a 3-year funding model, with only \$15M allocated so far. The remaining funds have been requested/projected for FY06-FY07. The current project plan “suggests” that ship operations will commence by the end of FY07. Successful implementation will depend on continued input and participation from members of the science community through the Science Oversight Committee, the Project Advisory Committee, and the Science Lab Conversion Design Teams.

1.8. ESO report

Tim Brewer reported on the status of the forthcoming Tahiti Sea Level Expedition 310, which will be drilled using a mission specific platform. Co-Chief scientists have been picked (Iryu-san and G. Camoin), and the science party has been finalized. Three drilling platforms are still being assessed for cost and capabilities. All of the drilling permits have been obtained. The optimal time window for the expedition is September-November 2005.

1.9. IODP-MI report

Jeff Schuffert provided an update concerning IODP-MI activities and staffing. The web site has been consolidated <www.iodp.org>. The new web administrator is Laura Paris. The new science coordinator is Barry Zelt. Coming soon: a new site-survey data bank and scientific drilling journal. Proposals submitted for April 2005 included 10 preliminary (8 new, 2 revised), 19 full (6 new, 13 revised), 5 externally reviewed (21 reviews, 5 response letters), and 1 ancillary project letter. Within each category, Schuffert reviewed the possible options

for recommendations by the SSEP. Panel membership will be affected by a startling 16 rotations after the May 2006 meeting.

1.10. CDEX report

Aoike-san updated the panel on the CDEX activities. Delivery of *Chikyu* will occur on 29 July 2005. The shakedown/training cruises will commence August 2005 and extend into USFY07. This phase of testing will include instrument setup and development of procedures in onboard laboratories, in addition to drilling operations. International operations are scheduled to begin in USFY07 (October 2006 to September 2007). Site surveys have been completed for two riser-drilling training areas in the forearc of the Japan Trench. CDEX scientists are also actively processing and interpreting site-survey data from Nankai Trough. Progress continues in setting up lab facilities and core storage at the Kochi Core Center. The center is now open to national scientists, with 26 proposals accepted for JFY04. The SIO7 data management system is also operational <io7.jamstec.go.jp>; its two components consist of core data management (J-CORES) and site survey data management (DEXIS). A new CDEX newsletter has been produced, entitled *Chikyu Hakken* (Earth Discovery).

1.11. STP and EDP referrals

Mike Lovell, chair of STP, presented suggestions for improving communication among SSEP, STP, and EDP. Because proponents increasingly propose the latest technology and/or novel measurements with additional costs or unproven technology, it is essential for the SAS to identify such proposals as soon as possible. SSEP members need to flag these proposals during their reviews. Criteria for referring proposals to STP and EDP should be discussed by watchdogs during the breakout sessions, and a simple check-box needs to be added to the proposal review form. The form should include the following:

Do the scientific objectives require:

- New in situ technology or engineering?
- Observatory monitoring?
- Non-standard sampling procedures or measuring technology?

If the answer is YES, then the proposal will be referred to the STP and/or EDP chairs.

2. Meeting Overview

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A total of 35 proposals were reviewed during the meeting: 5 externally reviewed, 14 revised proposals, 15 new proposals, and 1 APL; all are summarized in the table below. Panel members were subdivided into four breakout sessions for detailed discussions of the proposals: B.S.1: *Palaeoceanography/Palaeoclimatology + Tectonic-Climate Links* (chaired by G. Camoin); B.S.2: *Solid Earth/Geodynamics* (chaired by Arai-san); B.S.3: *Fluid Flow/Deep Biosphere* (chaired by M. Underwood); combined session for *CRISP Seismogenic Zone* (chaired by M. Underwood). Proposal 678-Full was discussed jointly by B.S.1 and B.S.2. Watchdog assignments retained appropriate balance between what had been interior and environmental subdivisions of the SSEPs. The purpose of each breakout session was to

build a consensus among watchdogs on recommended actions and draft a summary for a subsequent full panel discussion. The breakout sessions worked quite well, with active discussions of the merits of each proposal and suggestions for how proposals might be improved.

Palaeoceanography/palaeoclimatology + Tectonic-climate (14 proposals) - Chair: G. CAMOIN

Proposal	Short Title	Proponent	Lead Watchdog
514-Full5	Maldives Sea Level	Droxler	Thurow
549-Full6	Northern Arabian Sea Monsoon	Lueckge	Thurow
602-Full3	Tropical Epeiric Seas, Part I	Edgar	Tada
605-Full2	Asian Monsoon	Tada	Ravizza
618-Full3	East Asia Margin	Clift	Hasegawa
634-Full	Antarctic Circumpolar Current	Barker	Backman
643-Pre2	Okinawa Trough Tectonics and Paleoceanography	Wei	Moore
644-Pre2	Mediterranean Outflow	Molina	Jian
661-Full	Newfoundland Sediment Drifts	Norris	Erba
667-Full	NW Australian Shelf Eustasy	Fulthorpe	M. Ito
670-Pre	SW Pacific Climate Change	Carter	Norris
672-Pre	Baltic Sea Basin Paleoenvironment	Andren	Norris
676-Full	Tropical Epeiric Seas, Part II	Stattegger	Dickens
678-Full*	Mediterranean Geodynamics and Paleoceanography	Jolivet	Erzinger

Fluid Flow and Deep Biosphere (10 proposals) – Chair: M. UNDERWOOD

574-Full2	Rainbow Hydrothermal Field, Mid Atlantic Ridge	Fouquet	Rosenberg
601-Full2	Okinawa Trough Deep Biosphere	Takai	Edwards
603D-Full2	NanTroSEIZE Observatories	Screaton	Fulthorpe
635-Full2	Hydrate Ridge Observatory	Torres	Ge
637-Full2	New England Shelf Hydrogeology	Person	Saffer
651-APL	Irminger Basin Microbiology	Warthman	Edwards
662-Full2	South Pacific Gyre Microbiology	D'Hondt	Takai
663-Pre	Gas Hydrate Perturbation Experiment	Paull	Stein
673-Pre	Morocco Margin Mud Mound	Henriet	Ishibashi
677-Full	Mid Atlantic Ridge Microbiology	Edwards	Takai

Solid Earth and Geodynamics (9 proposals) – Chair: S. ARAI

535-Full4	735B Deep	Dick	Gee
620-Full3	Hotspot Seamounts	Sager	Yamazaki
654-Full2	Shatsky Rise Origin	Sager	Teagle
659-Full	Newfoundland Rifted Margin	Tucholke	Teagle
669-Pre	Walvis Ridge Hotspot	Sager	Bach
671-Pre	Campi Flegrei Caldera	Sacchi	Ishizuki
674-Pre	Izu-Bonin Arc 4-D Evolution	Tamura	Umino
675-Pre	Baltic Sea Basin Evolution	Korja	Morgan
678-Full*	Mediterranean Geodynamics and Paleoceanography	Jolivet	Erzinger

CRISP Seismogenic Zone (3 proposals) – Chair: M. UNDERWOOD

537-CDP6	CRISP Overview	Von Huene	Ogawa
537A-Full4	CRISP Phase A	Vannucchi	Henry
537B-Full3	CRISP Phase B	Ranero	Hirano

The conflict of interest rules and confidentiality requirements were respected during the entire review procedure (breakout sessions, general sessions and grouping). The table below lists the conflicted SSEP members, liaisons and guests who left the room during the review of the relevant proposals. In all cases, the conflicts arose because the member/liaison is a proponent on the given proposal and/or CDP.

Proposal No	Short Title	Lead Proponent	COI
537-CDP6	CRISP Overview	von Huene	Fulthorpe
537B-Full2	CRISP Phase A	Vannucchi	Fulthorpe
537B-Full2	CRISP Phase B	Ranero	Fulthorpe
601-Full2	Okinawa Trough Deep Biosphere	Takai	Takai, Ishibashi
603D-Full2	NanTroSEIZE Observatories	Screaton	Underwood, Saffer, Obana, Henry, Morgan
605-Full2	Asia Monsoon	Tada	Tada
654-Full2	Shatsky Rise Origin	Sager	Klaus
661-Pre	Newfoundland Sediment Drifts	Norris	Norris
667-Full	NW Australian Shelf Eustasy	Fulthorpe	Fulthorpe
674-Pre	Izu-Bonin Arc 4D Evolution	Tamura	Yamazaki, Ishibashi, Ishizuka
677-Full	Mid Atlantic Ridge Microbiology	Edwards	Edwards, Bach

The course of action regarding each of the 35 proposals reviewed during the Shanghai meeting was achieved by consensus. The dispositions are as follows:

- Pre-Proposals for revision = 4.
- Pre-Proposals and APL to be developed to Full proposals = 6.
- Full-Proposals for revision = 11.
- Full-Proposals sent out for external review = 10.
- Full-Proposals forwarded to SPC = 2.
- Pre-Proposals deactivated = 1.
- Full Proposals deactivated = 1.

A 5-star grouping was assigned to each of the two proposals forwarded to the SPC. Each grouping was obtained by consensus of the full panel.

2.2. Working group

One working group was formed to consider further a list of potential PPGs and DPGs that was compiled by SSEPs members during the May 2004 meeting in Granada. The working group will conduct its deliberations by e-mail and arrive at a prioritized list by 10 June 2005. Members of the working group are: Arai-san, Erba, Thurow, Norris, Dickens, Backman, Stein, Chen, Tada-san, Saffer, and Erzinger.

3. Discussions and Recommendations

3.1. Ancillary project letters

The subject of APL submission and review was discussed during the PANCH meeting in Lisbon. The following suggestions were delivered to the SSEP for consideration and

discussion: once the program is approved by SPC and SPPOC, APLs should no longer be accepted; new APLs need to be submitted as early as possible after each year's May SSEP meeting, when a list of proposals for external review will be released; APLs must be submitted before the 1 October deadline to be reviewed by SSEP during its November meeting. The opinion expressed by SSEP members is for co-chairs to reject late submissions unless there is sound justification for proponents not hitting the deadline.

3.2. Project scoping

This discussion involved the role that SSEP should play in evaluating and nurturing a CDP after a Project Scoping Group is formed. One possibility would be to send a SSEP liaison to all PSG meetings. Another would be for PSG activities to be included in liaison reports from SPC to SSEP. The opinion expressed by SSEP members is for the panel to cease its involvement once the PSG is formed, except for cases in which a new proposal enters the SAS while scoping is ongoing for mature proposals. Communication between the PSG and SSEP via a liaison would be advantageous during the nurturing stages of a new proposal.

3.3. Interplay with SSP

This discussion started with a review of the mandate for Site Survey Panel and focused on the overlapping responsibilities of SSEP and SSP. Common problems include conflicting review comments from the two panels and failing to achieve a consistent balance through the nurturing process between assessments of scientific conceptual maturity and assessments of scientific readiness. The SSEP also discussed whether or not proposals should be sent to SPC if they do not contain enough site- survey data for SSEP to assess the conceptual validity of the science plan at each proposed site. SSEP members expressed a desire to improve interactions with SSP. One suggestion was for SSEP watchdogs to contact SSP watchdogs after having read the most recent set of panel comments. Watchdogs could then exchange perceptions about the availability of data (or lack thereof) and data interpretations. SSEP watchdogs should also "red-flag" proposals that appear to be particularly problematic, for SSP attention during its next meeting.

3.4. Nominations of panel members and co-chairs

Several issues have developed with regard to panel membership. It is important for SSEP to include a distribution of expertise among co-chairs that reflects the three science themes of the Initial Science Plan. This goal is difficult to maintain at all times, however, because of staggered rotations. In addition, national committees and consortium committees need to evaluate several important attributes when considering candidates for nomination. The issue of multiple representatives from a single institution was also discussed. This problem has become more significant since the merger of ISSEP and ESSEP into a single panel. The opinion of SSEP members is that institutional multiples should be avoided, but the final decision should be left to the national/consortium committees. Flexibility must be maintained to achieve the desired breadth of expertise on the panel.

3.5. Observatory science and ultra-deep drilling

In the interest of time, this discussion was deferred. During its next meeting, SSEP working groups will discuss the possibility of drafting three separate primers for observatory science, ultra-deep drilling, and microbiology.

3.6. Selection of meeting locations

Criteria for optimal location of panel meetings were discussed at the PANCH meeting in Lisbon. SSEP members are content with the existing balance between convenience and opportunities for scientific and cultural exchange. There were no suggestions to change the existing procedures.

3.7. Report from MSPHDS participants

Five students from the Minorities Striving and Pursuing Higher Degrees of Success (MSPHDS) program in Earth system science attended the SSEP meeting. Ismael Nieves (U. Connecticut) provided an overview of their experiences. The other students included Asia Johnson (U. Houston), Raymon Sherrell (U. South Carolina), José Trapp (Metropolitan U. Puerto Rico), and Leonard Pace (Virginia Institute of Marine Science). The students gained a “behind the scenes” look at panel activities, built their networking skills, developed a better understanding of the IODP SAS, and learned the roles of SSEP members. They were impressed by the importance of scientific collaborations in developing proposals, the integrity of the review process, the regard among panel members for differences of opinion, the uniqueness of the nurturing process, and the value of good science and effective writing. Mentors from SSEP included Greg Ravizza, Dick Norris, Jerry Dickens, Shemin Ge, and Gerry Iturrino.

3.8. Recommendation for co-chair

Jörg Erzinger nominated Rüdiger Stein to serve as the next co-chair of SSEP, replacing Gilbert Camoin. Stein’s professional and personal qualifications were summarized very effectively by Gilbert Camoin. No other nominations were presented. Jürgen Thurow voiced the desire to approve or reject the nomination by paper ballot, and that procedure was approved by consensus. The nomination of Stein was approved by vote of the full panel.

SSEP Recommendation 0505-3: The SSEP recommends that SPC consider Rüdiger Stein for appointment as the next co-chair of SSEP.

4. Resolutions for outgoing SSEP members

Resolutions were presented thanking (and roasting) outgoing SSEP Co-Chair Gilbert Camoin and outgoing SSEP members Rolf Pedersen, Katrina Edwards, Shemin Ge, and Nina Rosenberg. Gilbert’s scientific knowledge, wisdom, organizational skills, cultural sensitivity, and dedication to IODP will be greatly missed.

5. Next SSEP meetings

Greg Ravizza graciously announced that the 5th SSEP meeting will be during November 2005 in Hawaii. Possible venues include the Turtle Bay resort (North Shore of Oahu), the Westin (Ka'anapali coast of Maui), and the Marriott Kauai. Tentative dates are 14-17 November, but considerations of cost and availability of facilities could push the optimal time window to the week of 7 November. A local field excursion and golf tournament may be organized prior to the meeting.

Jörg Erzinger kindly extended an invitation for the 6th SSEP meeting to be held in Potsdam, Germany. Tentative dates are 15-18 May 2006.

6. Conclusion

The co-chairs Shoji Arai, Mike Underwood, and Gilbert Camoin thanked again the hosts Zhimin Jian and Zhifei Liu for their excellent logistical arrangements and warm

hospitality throughout the meeting. Watchdogs submitted drafts of all proposal reviews to the IODP-MI Office representatives (Jeff Schuffert and Nobu Eguchi) before the meeting ended. The co-chairs, watchdogs, and IODP-MI staff will edit the reviews via e-mail before they are forwarded to the proponents.

Attachments

IODP Science Steering and Evaluation Panel 4th Meeting, 16-19 May 2005 Tongji University, Shanghai, China

Meeting Agenda

Saturday, May 14 and Sunday, May 15 (Optional) :

Trip to Hangzhou (two hours away from Shanghai), visit the West Lake.

Sunday, May 15 (Optional) :

Trip to Suzhou (70 minutes away from Shanghai), visit typical Chinese ancient-style gardens.

Monday, May 16

8:30 Joint Session, Reports

- Introduction of attendees to SSEP
- Opening Remarks by Host (Zhimin Jian, Zhifei Liu)
- Approval of the agenda
- Approval of minutes from our last meeting (November, 2004)
- Introduction to the meeting
- IODP-MI Report (Larsen, Eguchi, Schuffert)
- SPC and SPPOC Reports (Coffin)
- SSP report (Qiu, Tsuru)
- JOI Alliance (Iturrino, Klaus)
- CDEX report (Kimura)
- ESO Report (Brewer)

Introduction to proposal evaluations and working groups (Underwood)

Proposals, Conflict of interest rules. Breakout sessions. General discussions.

12:30 Lunch

13:30 Breakout sessions

Paleoceanography/Paleoclimatology - Chair : G. CAMOIN		
514-Full5	Maldives Sea Level	Droxler
549-Full6	Northern Arabian Sea Monsoon	Lueckge
602-Full3	Tropical Epeiric Seas, Part I	Edgar
605-Full2	Asian Monsoon	Tada
618-Full3	East Asia Margin	Clift
634-Full	Antarctic Circumpolar Current	Barker
643-Pre2	Okinawa Trough Tectonics and Paleoceanography	Wei
644-Pre2	Mediterranean Outflow	Molina
661-Full	Newfoundland Sediment Drifts	Norris
667-Full	NW Australian Shelf Eustasy	Fulthorpe
670-Pre	SW Pacific Climate Change	Carter
672-Pre	Baltic Sea Basin Paleoenvironment	Andr�n
676-Full	Tropical Epeiric Seas, Part II	Stattegger
676-Full	Tropical Epeiric Seas, Part II	Stattegger
678-Full	Mediterranean Geodynamics	Jolivet

Fluid flows and Deep Biosphere - Chair : M. UNDERWOOD		
574-Full2	Rainbow Hydrothermal Field, Mid Atlantic Ridge	Fouquet
601-Full2	Okinawa Trough Deep Biosphere	Takai
603D-Full2	NanTroSEIZE Observatories	Screaton
635-Full2	Hydrate Ridge Observatory	Torres/Trehu
637-Full2	New England Shelf Hydrogeology	Person
651-APL	Irminger Basin Microbiology	Warthmann
662-Full2	South Pacific Gyre Microbiology	D'Hondt
663-Pre	Gas Hydrate Perturbation Experiment	Paull
673-Pre	Morocco Margin Mud Mound	Henriet
677-Full	Mid-Atlantic Ridge Microbiology	Edwards

Fluid Flows and Solid Earth - Chair : M. UNDERWOOD		
537A-Full4	CRISP Phase A	Vannucchi
537B-Full3	CRISP Phase B	Ranero
537-CDP6	CRISP Overview	von Huene

Solid Earth and Geodynamics - Chair : S. ARAI		
535-Full4	735B Deep	Dick
620-Full3	Hotspot Seamounts	Sager
654-Full2	Shatsky Rise Origin	Sager
659-Full	Newfoundland Rifted Margin	Tucholke
669-Pre	Walvis Ridge Hotspot	Sager
671-Pre	Campi Flegrei Caldera	Sacchi
674-Pre	Izu-Bonin Arc 4D Evolution	Tamura
675-Pre	Baltic Sea Basin Evolution	Korja
678-Full	Mediterranean Geodynamics	Jolivet

Tuesday, May 17

8:30 Breakout sessions
Proposal review.

12:30 Lunch

13:30 Breakout sessions
Proposal review.

18:15 Buffet dinner, Magnolia Hotel.

Wednesday, November 18

8:30 Breakout sessions
Proposal review.

12:30 Lunch

13:30 General session :
Discussion topics :
- Introduction (Arai, Camoin and Underwood)
1) PPGs and DPGs.
2) APLs.
3) Role of SSEP in Project Scoping Group.
4) SSEP/SSP interplay.

- 5) Nominations of SSEP members.
- 6) Observatory science and ultra-deep drilling.
- 7) Microbiology primer.
- 8) SSEP meetings locations.

19:00 Official banquet, Pudong Sea Gull House.

Thursday, November 19

8: 30 General session :

Proposal review.

12:30 Lunch

13:30 General session :

- SSEP's recommendations.
- Nomination of next SSEP co-chair.
- Announcement on coming SSEP meetings.

Meeting attendees**SSEP members**

Arai, Shoji (co-chair)
 Bach, Wolfgang
 Backman, Jan
 Camoin, Gilbert (co-chair)
 Chen Yongshun
 Dickens, Jerry
 Edwards, Katrina J.
 Erba, Elisabetta (alternate for R. Pedersen)
 Erzinger, Jörg
 Fulthorpe, Craig
 Ge, Shemin
 Gee, Jeff
 Hasegawa, Takashi
 Hayashida, Akira
 Henry, Pierre
 Hirono, Tetsuro
 Ishibashi, Junichiro
 Ishizuka, Osamu (alternate for Y. Ohara)
 Ito, Makoto
 Iwai, Masao (alternate for T. Ito)
 Jian Zhimin
 Moore, Ted (alternate for B. Flower)
 Morgan, Julia
 Norris, Richard
 Obana Koichiro (alternate)
 Ogawa, Yujiro
 Ravizza, Greg
 Rosenberg, Nina D.
 Saffer, Demian M.
 Stein, Rüdiger
 Tada, Ryuji
 Takai, Ken
 Teagle, Damon A.H.
 Thurow, Jürgen
 Umino, Susumu
 Underwood, Mike (co-chair)
 Yamazaki, Toshitsugu

Liaisons and guests

Aoike, Kan, CDEX
 Brewer, Tim, ESO
 Burger, Bob, JOI/USSSP
 Castner, Amy, JOI
 Coffin, Mike, SPC
 Eguchi, Nobuhisa, IODP-MI
 Iturrino, Gerry, JOI Alliance
 Johnson, Aisha, U. Houston
 Klaus, Adam, JOI Alliance
 Liu, Zhifei, IODP-China (Local host)
 Lovell, Mike, STP
 Nieves, Ismael U., U. Connecticut
 Okada, Makoto, STP
 Pace, Leonard, VIMS
 Pyrtle, Ashanti J., U. South Florida
 Qiu, Xuelin, SSP
 Schuffert, Jeffrey, IODP-MI
 Sherrell, Raymon, U. South Carolina
 Tirado, Jose, U. Metropolitana
 Tsuru, Tetsuro, SSP
 Zhou, Zuyi, SPC

SSEP members absent

Flower, Ben
 Ito, Takashi
 Ohara, Yasuhiko
 Pederson, Rolf
 Summa, Lori

Dispositions of Pre-proposals and Proposals; 16-19 May 2005 (Shanghai)

Pre-Proposals for revision

<u>Proposal</u>	<u>Title Code</u>	<u>Lead proponent</u>	<u>Watchdogs</u>					
671-Pre	Campi Flegrei Caldera	Sacchi	Ishizuka	Umino	Morgan	Gee	Takai	
673-Pre	Morocco Margin Mud Mound	Henriet	Ishibashi	Moore	Erba	Fulthorpe	Ogawa	
674-Pre	Izu-Bonin Arc 4D Evolution	Tamura	Umino	Bach	Henry	Iwai	Hayashida	
675-Pre	Baltic Sea Basin Evolution	Korja	Morgan	Saffer	Teagle	Backman	Stein	

Pre-Proposals and APL to be developed to Full Proposals

<u>Proposal</u>	<u>Title Code</u>	<u>Lead proponent</u>	<u>Watchdogs</u>					
644-Pre2	Mediterranean Outflow	Molina	Jian	M. Ito	Erba	Rosenberg	Erzinger	
651-APL	Irminger Basin Microbiology	Warthmann	Edwards	Takai	Ravizza	Dickens	Chen	
663-Pre	Gas Hydrate Perturbation Experiment	Paull	Stein	Jian	Ravizza	Saffer	Gee	
669-Pre	Walvis Ridge Hotspot	Sager	Bach	Teagle	Ishizuka	Henry	Hayashida	
670-Pre	SW Pacific Climate Change	Carter	Norris	Erba	Hasegawa	Dickens	Henry	
672-Pre	Baltic Sea Basin Paleoenvironment	Andr�n	Norris	Tada	Backman	Thurrow	Chen	

Full Proposals for revision

<u>Proposal</u>	<u>Title Code</u>	<u>Lead proponent</u>	<u>Watchdogs</u>					
514-Full5	Maldives Sea Level	Droxler	Thurrow	Ravizza	Iwai	Fulthorpe	Yamazaki	
535-Full4	735B Deep	Dick	Gee	Bach	Obana	Umino	Hayashida	
574-Full2	Rainbow Hydrothermal Field	Fouquet	Rosenberg	Ishizuka	Henry	Takai	Ishibashi	
601-Full2	Okinawa Trough Deep Biosphere	Takai	Edwards	Hasegawa	Ge	Bach	Morgan	
602-Full3	Tropical Epeiric Seas, Part I	Edgar	Tada	M. Ito	Dickens	Rosenberg	Chen	
620-Full3	Hotspot Seamounts	Sager	Yamazaki	Chen	Teagle	Bach	Hayashida	
634-Full	Antarctic Circumpolar Current	Barker	Backman	Tada	Erba	Stein	Ishizuka	
635-Full2	Hydrate Ridge Observatory	Torres/Trehu	Ge	Ishibashi	Edwards	Yamazaki	Henry	
661-Full	Newfoundland Sediment Drifts	Norris	Erba	Moore	M. Ito	Backman	Ogawa	
662-Full2	South Pacific Gyre Microbiology	D'Hondt	Takai	Dickens	Jian	Ge	Bach	
676-Full	Tropical Epeiric Seas, Part II	Stattegger	Dickens	Moore	Tada	Saffer	Erzinger	

Proposals sent out for external review

<u>Proposal</u>	<u>Title Code</u>	<u>Lead proponent</u>	<u>Watchdogs</u>					
537AFul4	CRISP Phase A	Vannucchi	Henry	Erzinger	Obana	Ishibashi	Iwai	
537BFul3	CRISP Phase B	Ranero	Hirono	Morgan	Obana	Ishibashi	Iwai	
537-CDP6	CRISP Overview	von Huene	Ogawa	Hirono	Saffer	Moore	Ishibashi	
549-Full6	Northern Arabian Sea Monsoon	Lueckge	Thurrow	Norris	Tada	Iwai	Gee	
603DFul2	NanTroSEIZE Observatories	Screaton	Fulthorpe	Hirono	Ogawa	Ge	Ishibashi	
605-Full2	Asian Monsoon	Tada	Ravizza	Jian	Iwai	Fulthorpe	Chen	
637-Full2	New England Shelf Hydrogeology	Person	Saffer	Stein	Edwards	Morgan	Rosenberg	
654-Full2	Shatsky Rise Origin	Sager	Teagle	Erzinger	Hirono	Umino	Hayashida	
667-Full	NW Australian Shelf Eustasy	Fulthorpe	M. Ito	Hasegawa	Thurrow	Obana	Teagle	
677-Full	Mid-Atlantic Ridge Microbiology	Edwards	Takai	Ishibashi	Ge	Saffer	Ishizuka	

Proposals forwarded to SPC

<u>Proposal</u>	<u>Title Code</u>	<u>Lead proponent</u>	<u>Watchdogs</u>					
618-Full3	East Asia Margin	Clift	Hasegawa	Thurrow	M. Ito	Morgan	Hirono	
659-Full	Newfoundland Rifted Margin	Tucholke	Teagle	Fulthorpe	Gee	Iwai	M. Ito	

Deactivated Proposals

<u>Proposal</u>	<u>Title Code</u>	<u>Lead proponent</u>	<u>Watchdogs</u>				
643-Pre2	Okinawa Trough	Wei	Moore	Stein	Norris	Chen	Rosenberg
678-Full Backman	Mediterranean Geodynamics	Jolivet	Erzinger	Yamazaki	Hayashida	Moore	