

## **IODP-Industry Science Program Planning Group Meeting**

### **Minutes**

23-24 July 2007

Sapporo, Japan

#### IIS-PPG Attendees:

Andrew Pepper, apepper\_at\_hess.com, IIS-PPG (Host)  
Martin Perlmutter, mperlmutter\_at\_chevron.com, IIS-PPG  
Kurt Rudolph, kurt.w.rudolph\_at\_exxonmobil.com, IIS-PPG  
Ralph Stephen, rstephen\_at\_who.edu, IIS-PPG (Chair)  
Yoshihiro Tsuji, tsuji-yoshihiro\_at\_jogmec.go.jp, IIS-PPG  
Yasuhiro Yamada, yama\_at\_electra.kumst.kyoto-u.ac.jp, IIS-PPG

#### Ex-Officio Attendees:

Jamie Allan, NSF, by conference call on Tuesday morning  
Tim Byrne, Science Planning Committee Liaison  
Nobu Eguchi, science\_at\_iodp-mi-sapporo.org, IODP-MI  
Hiroshi Kawamura, IODP-MI  
Issa Kagaya, J-DESC  
Hans Christian Larsen, IODP-MI  
Manami Ono, AESTO  
Toshiyuki Oshima, MEXT  
Manik Talwani, mtalwani\_at\_iodp.org, IODP-MI

#### IIS-PPG Regrets:

Richard Davies, Richard.Davies\_at\_durham.ac.uk, IIS-PPG  
Harry Doust, harrydoust\_at\_hotmail.com, IIS-PPG  
Didier-Hubert Drapeau, didier-hubert.drapeau\_at\_totalfinaelf.com, IIS-PPG  
David Roberts, d.g.roberts\_at\_dsl.pipex.com, IIS-PPG  
Neil Frewin, IIS-PPG

## **Executive Summary**

This was the third meeting of the IODP/Industry Science Program Planning Group. To promote development of industry related drilling proposals, to facilitate communication, and to develop effective links between academic and industry scientists, we generated seven consensus statements at the meeting:

**IISPPG Consensus Statement 0707-01:** SASEC Consensus Statements 0706-07 and 0706-08 represent radical changes in the manner with which academic scientists collaborate with industry in ocean drilling. The “Deal” between academic scientists and the funding agencies and the drill ship operators is changing dramatically. We recommend that options for pursuing substantial industry support for the IODP drilling platforms be pursued by an Industry Task Force (ITF) independent of the IODP SAS. The ITF would consist of representatives from the petroleum industry, the Implementing Organizations, IODP-MI and SAS (ex-officio) facilitated by IODP-MI.

**IISPPG Consensus Statement 0707-02:** Given the already strong proposal pressure and the much reduced availability of the IODP drilling platforms for the remainder of the program, there is little point in further “promoting development of IODP drilling proposals to address industrial priority research within SAS or within the context of the ISP”. We recommend an IISPPG meeting in Paris in January-February 2008 to complete the white papers and to consider other avenues for pursuing academic-industry liaisons within SAS (for example, more mini-workshops similar to the Tokyo workshop).

**IISPPG Consensus Statement 0707-03:** The industry members of IISPPG would like to investigate the potential of using platforms currently utilized by IODP for industry developed drilling consortiums. A possible project envisioned could be, for example, an Arctic basin analysis program. In order to proceed in a timely manner, we request that IODP-MI ascertain the level of interest of the IO’s in pursuing and facilitating this approach to solving IODP funding issues. If there is interest, prior to the IISPPG or ITF engaging the entire industrial community to inquire about creating this consortium, we need the following information that will drive corporate decisions: (1) the approximate cost of the ships for drilling in both ice free and ice covered locations in the Arctic, (2) the drilling capabilities of each ship, (3) the scheduling and availability, and (4) the fiscal responsibilities (liability, etc). While this potential program would be driven by industry interests we believe that there could be significant opportunities for scientific collaboration with academia and government.

**IISPPG Consensus 0707-04:** We recommend that the SPC appoint Andrew Bell (Shell) as a new member of the Industry-IODP Science Program Planning Group (IIS PPG), replacing resigned member Neil Frewin, effective immediately.

**IISPPG Consensus 0707-05:** We request that SPC and the National Funding Agencies sort out all funding issues with respect to IISPPG member travel reimbursement. To be effective, the IISPPG needs members from multi-national oil companies and negotiating “who pays the travel” is not an effective use of IISPPG time.

**IISPPG Consensus 0707-06:** We recommend industry participation at the IODP rapid climate change workshop if approved (Kurt Rudolf).

**IISPPG Consensus 0707-07:** We recommend that technical sessions and/or panel discussions be held at AAPG, GSA and/or EAGE (Kurt Rudolf, Andy Pepper, and Marty Perlmutter to evaluate).

We thank Yoshihiro Tsuji and Yasuhiro Yamada for graciously hosting the meeting that was held at the IODP-MI Sapporo offices. We also thank Tatsuya Murayama and Takashi Agatsuma from JAPEX for hosting a celebratory, traditional Japanese dinner on Tuesday night and Osamu Takano for organizing the tour of the JAPEX Yufutsu Oil and Gas Field on Wednesday morning.

In conjunction with the IIS-PPG meeting on Monday and Tuesday in Sapporo, the PPG participated in a mini-workshop on Thursday at the JAMSTEC Tokyo offices. Over 60 representatives of academia, government and industry from the Tokyo area participated in the mini-workshop that was organized by Tsuji-san and Yamada-san. Taira-sensei, Director General of CDEX/JAMSTEC, gave the key-note address. The excellent presentations were followed by active discussion and the mini-workshop was a great success.

### 1) Introduction

In addition to furthering the white paper process that had been initiated in The Hague, a primary concern of this meeting was responding to programmatic changes associated with budget restrictions.

### 2) Minutes of the Previous Meeting

The minutes of the previous meeting, in Houston, 19-20 January, 2007 were accepted.

### 3) Review and Progress on Consensus Items from the Houston Meeting.

IIS-PPG Consensus 0701-1: IISPPG is promoting the submission of two projects for the April 1/07 proposal deadline: 1) A South Atlantic rifted margins project which will be included in a rifted margins mission proposal. 2) A pre-proposal on the theme of silica diagenesis, shallow compaction and fluid flow. **The South Atlantic rifted margins project was included in the rifted margins mission proposal at the April 1/07 deadline. The silica diagenesis pre-proposal was not submitted.**

IIS-PPG Consensus 0701-2: IISPPG is promoting a proposal or pre-proposal on Mesozoic source rocks and paleo-oceanography for possible submission in April 1/08. **As reported below we are making good progress with the Mesozoic source rocks and paleo-oceanography white paper and pre-proposal.**

IIS-PPG Consensus 0701-3: The Arctic Basin is one of the last remaining scientific frontiers on a number of fronts, from basin evolution to paleo-oceanography and paleo-climate change. IISPPG believes this is an area of great mutual interest to academia and industry. The panel will prepare a 2-3 page white paper scoping out possible Arctic drilling of joint industry-academic scientific interest. **See below.**

IIS-PPG Consensus 0701-4: IISPPG recommends that IODP-MI increase the awareness of IODP in the Japanese petroleum industry in addition to US and European efforts, for

example by having a booth at the JAPT. In conjunction with the next meeting in Sapporo, IISPPG will participate in a mini-workshop in Tokyo on "Applications of IODP data in petroleum exploration". **IISPPG members have been active in raising the awareness of IODP in the Japanese petroleum industry, and the mini-workshop was held on July 26, 2007.**

IIS-PPG Consensus 0701-5: IISPPG supports the IODP data management efforts (SEDIS portal) which involve interoperable data portals. Coordination between US, Japanese, and European data management efforts is obviously essential. Specifically we request that the industry "user community" be involved in pilot projects to guide the development and to ensure the utility of the data management infrastructure. **After investigating these issues further we concluded that no further action was required at this time.**

ISS-PPG Consensus 0701-6: IISPPG will contact EGI (Energy Geoscience Institute - University of Utah) to identify whether they would have interest in developing with IODP scientists an integrated database of DSDP, ODP and IODP well data. **See above.**

IIS-PPG Consensus 0701-7: IISPPG supports the membership of IODP-MI in the RPSEA and Deep Star projects. IISPPG will monitor developments on the Deep Star Technical Advisory Committees on Geoscience and Downhole Measurements. **IODP-MI has joined RPSEA and DeepStar and has been attending planning meetings.**

IIS-PPG Consensus 0701-8: IIS-PPG members will identify alternates for themselves whom they know and with whom they can communicate easily. Ideally these alternates will meet the criteria for PPG membership outlined in the terms of reference. National committees (PMOs for US and Japan) should confirm that they will pay travel costs for the designated alternates if necessary. Action item for IIS-PPG members and Chair. **The concept of alternates met with mixed reviews at the March SPC meeting. The perennial problem of "who pays for travel" is an issue here. Given the attendance of European members at the Sapporo meeting we still feel that alternates would be a good idea, but PPG members have been slow to embrace the concept.**

#### **4) Update on IODP activities and the March 2007 SPC meeting**

Although Harry Doust did not attend this meeting he did prepare some valuable materials that were presented and discussed. Harry's updated figure on "Active proposals of possible industry interest" was presented (see Appendix 1). It was noted that *Gulf of Mexico - 589Full-3 MacDonald/Flemings* was missing. It was also noted that [threetwo](#) possible new themes of industry interest were gas hydrates, borehole observatories and formation monitoring.

Tim Byrne gave an update on IODP activities (see Appendix 2). This was based on a presentation that Keir Beckerf made to the EDP in June. Sections of the Executive Summary and Minutes that are relevant to the IISPPG from the March SPC meeting were

presented (Appendix 3). In June 07 SASEC accepted a working group report on the IODP Science Advisory Structure (Appendix 4). In the report no changes to the IISPPG were recommended, but it was clear the IISPPG performance would be reviewed in its third year.

Two important Consensus Statements from the June 2007 SASEC meeting (encouraging industry funded legs and complementary project proposals) were presented (Appendix 5).

## **5) Progress reports on IIS-PPG white papers.**

### **5a) Rifted margins mission proposal**

Ralph Stephen presented a progress report on the BESACM (Birth and Evolution of the South Atlantic Conjugate Margins) white paper (see Appendix 6 for an overview of the relevant documentation). There was a planning meeting in Houston in March 07 hosted by Garry Karner to prepare the BESACM section of the Rifted Margins Mission Proposal. (Exxon subsidized some of the travel for academic scientists to attend this meeting.) Harm van Avendonk lead the effort by writing an updated white paper on South Atlantic passive margin drilling (Appendix 7). The BESACM project was a subsection in the Rifted Margins Mission Proposal (COBBOOM - #720 ) that was submitted for the April 1, 2007 deadline by John Hopper. The South Atlantic project provided a case study of the issues involved in proprietary industry data and other materials (see the GXT data offer - Appendix 8).

### **5b) Mesozoic paleo-oceanography and source rocks**

In Harry Doust's absence Marty Perlmutter lead the discussion on Mesozoic Source Rocks (Appendix 9). Harry had prepared a white paper (Appendix 10) and a slide presentation (Appendix 11). Harry had also prepared an outline for a workshop on paleo-oceanography and source rocks to be held in Durham, U.K. in September 2007 (Appendix 12).

### **5c) Silica diagenesis, shallow compaction and fluid flow**

There were no presentations or discussion on this topic.

### **5d) High-scientific-value single wells**

There were no presentations or discussion on this topic.

### **5e) Source-to-sink sediment transport processes (TBD),**

There were no presentations or discussion on this topic.

## **6) Updates on national IODP-Industry Liaison efforts.**

### **6a) UK ILP**

There were no presentations or discussion on this topic.

#### **6b) Japanese - encouraging industry participation and planned mini-workshop**

Yoshihiro Tsuji gave a summary of activities that had been carried-out in Japan (Appendix 13). These included a progress report on the post-meeting mini-workshop to be held on Thursday, July 26.

#### **6c) US liaison efforts - RPSEA, DeepStar, Society of Exploration Geophysicists, Offshore Technology Conference**

Ralph Stephen gave an update on the membership of IODP-MI in both RPSEA and DeepStar (Appendix 14). More details on the collaboration, which was initiated at the IISPPG Houston meeting, are given in Tom Janecek's presentation at the June SASEC meeting (Appendix 27). There was also discussion of special sessions at the SEG meeting in San Antonio and the OTC next Spring.

#### **7) Industry role in IODP data management and an integrated data base for all well data (ISS-PPG Consensus 0701-6)**

There had been some discussion at the Houston IISPPG meeting on making DSDP, ODP, and IODP data bases compatible with interoperable data portals (eg, SEDIS portal). (**IIS-PPG Consensus 0701-5**) Coordination between US, Japanese, and European data management efforts is obviously essential. Some correspondence following-up on the Houston meeting is given in Appendices 15. Hans Christian Larsen gave overviews and demonstrations of SEDIS which is being developed by IODP-MI Sapporo (Appendix 16). Although we had originally thought that the industry “user community” should be involved in pilot projects to guide the development and to ensure the utility of the data management infrastructure, the SEDIS program seems to be handling this very well. Direct involvement by the IISPPG is not required at this time.

At the Houston meeting we recommended that an integrated data base for all well data, IODP and industry, be established (**ISS-PPG Consensus 0701-6**). Marty Perlmutter presented a presentation from EGI (Energy Geoscience Institute - University of Utah) (Appendix 17). After further presentations by Hans Christian Larsen on SEDIS (Appendix 18) and GeoMapApp (Appendix 19) it was determined that further direct involvement by the IISPPG is not required at this time.

#### **8) Proprietary Data Stuff**

At the Houston meeting there had been some discussion about the suitability of IODP's policy on proprietary data for industry related work in all phases of the process:

- a) in the proposal and review process,
- b) in open literature pre-drilling,
- c) in the pollution prevention and safety panel review,

- d) in shipboard scientific activities, and
- e) in post-cruise scientific publications.

The discussion here was lead by Ralph Stephen using the South Atlantic Rifted Margins project as case study (Appendices 20 and 21). Although many issues are still confusing it was determined that further direct involvement by the IISPPG is not required at this time. It is best to work through the issues on a case by case basis.

## **9) Guidelines and planning for expeditions of joint industry-IODP interest**

There was considerable discussion on the recent SASEC Consensus Statements (Appendices 22, 23 and 24) involving industry financial support for IODP programs including mechanisms and prospects for the "complementary project concept". Manik Talwani lead this discussion, last thing on Monday afternoon, which included material from David Divens (Appendix 25).

In a conference call with Jamie Allan, first thing on Tuesday morning, we received NSF's perspective. Much of this was summarized in an email to Oshima and Talwani on December 5, 2006 (Appendix 26) and in Tom Janecek's June presentation to SASEC (Appendix 27). Marty Perlmutter reminded us of an earlier summary of topics that were of critical industry interest in IODP (Appendix 28).

## **10) Arctic Drilling White Paper**

At the Houston meeting we had decided that the Arctic was a potentially very interesting area for joint industry-IODP collaboration. Andy Pepper with input from Kurt Rudolf gave a summary of the various geographical regions within the Arctic, work that had been done so far, and possible new projects (Appendix 29). It seemed that the Arctic would be an obvious focus topic for detailed industry-IODP discussion.

After considerable debate it was resolved that industry-IODP collaboration would best be addressed by an Industry Task Force independent of SAS and lead by IODP-MI. At one stage we felt that this effort should be funded by industry but this recommendation did not survive the consensus editing process. It was suggested that a meeting of interested industry representatives be held in Houston in the Fall of 2007 to launch this concept. The industry representatives on IISPPG would be the nucleus for this new Industry Task Force. It was not clear what, if any, role the IISPPG would have after the formation of the ITF. Marty Perlmutter started a list of questions that industry representatives would have prior to getting involved in the ITF (Appendix 30).

## **11) Replacement of Neil Frewin with Andrew Bell.**

Since the process of appointing a Shell representative to the IISPPG was already underway, Ralph Stephen lead a discussion regarding membership (Appendix 31) and the appointment of Andrew Bell to the IISPPG (Appendix 32).

## **12) Review of IIS-PPG mandate & achievements**

Ralph Stephen lead a discussion of the activities that IISPPG had been doing in response to their mandate since The Hague meeting in July 2006 (Appendix 33).

### **13) Next Meeting**

The next meeting was tentatively scheduled for Paris in January or February, 2008. Didier Drapeau, Total, volunteered to host the meeting.

### **14) Mini-Workshop**

In conjunction with the IIS-PPG meeting on Monday and Tuesday in Sapporo, the PPG participated in a mini-workshop on Thursday at the JAMSTEC Tokyo offices. Over 60 representatives of academia, government and industry from the Tokyo area participated in the mini-workshop that was organized by Tsuji-san and Yamada-san. Taira-san, Director General of CDEX/JAMSTEC, gave the key note address. The excellent presentations were followed by active discussion and the mini-workshop was a great success. The list of attendees is given in Appendix 34.

### **Acknowledgements**

We thank Yoshihiro Tsuji and Yasuhiro Yamada for graciously hosting the meeting that was held at the IODP-MI Sapporo offices. We also thank Tatsuya Murayama and Takashi Agatsuma from JAPEX for hosting a celebratory, traditional Japanese dinner on Tuesday night and and Osamu Takano for organizing the tour of the JAPEX Yufutsu Oil and Gas Field on Wednesday morning.