

IODP Council Meeting June 26-27, 2007, Bremerhaven, Germany

IODP Council

|                                     |   |
|-------------------------------------|---|
| Eija Kanto*                         | Academy of Finland, Finland   |
| Rodey Batiza                        | National Science Foundation (NSF) USA   |
| Reinhard Belocky*                   | Austrian Science Fund (FWF), Austria  |
| Are Birger Carlson*                 | Research Council of Norway, Norway  |
| Luis Delgado*                       | Ministry of Education and Science, Spain                                      |
| Stefan Winker-Nees (for Sören Dürr) | German Research Foundation (DFG), Germany                                     |
| Chris Franklin*                     | Natural Environment Research Council, United Kingdom                          |
| Kathy Gillis*                       | School of Earth and Ocean Sciences, University of Victoria, Canada            |
| Jean-Pierre Henriët*                | Ghent University, Belgium   |
| Dan Holtstam*                       | Swedish Research Council, Sweden  |
| Ulla H. Hansen*                     | Danish Natural Science Research Council, Denmark                              |
| Kristjan Kristjansson*              | The Icelandic Centre for Research-RANNIS, Iceland                             |
| Marcel Kullin*                      | Swiss National Science Foundation, Switzerland                                |
| Young-Joo Lee                       | Korea Institute of Geoscience and Mineral Resources                           |
| Elisabeth Kohler (for Bruno Goffé)  | National Institute of Earth Sciences and Astronomy (INSU-CNRS), France        |
| Kristján Kristjánsson*              | Geological Survey of Ireland, Ireland   |
| Catherine Mével                     | ECORD Managing Agency (EMA), France   |
| Fernando Barriga*                   | Department of Marine Geology, Geological and Mining Institute (IGM), Portugal |
| Sergio Persoglia*                   | National Institute of Oceanography and Experimental Geophysics (OGS), Italy   |
| Jianzhong Shen*                     | Ministry of Science and Technology, China                                     |
| Raymond Schorno                     | Netherlands Organization for Scientific Research (NWO), Netherlands           |
| Kazuya Shukuri                      | Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan  |

Liaisons, Observers, and Guests

|                       |  |
|-----------------------|--|
| Jamie Allan           | National Science Foundation (NSF), USA                                       |
| Julie Morris          | National Science Foundation (NSF), USA                                       |
| Toshiyuki Oshima      | MEXT Liaison to NSF  |
| Masato Sugiyama       | Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan |
| Yoko Totani           | Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan |
| Dan Evans             | ECORD Science Operator, British Geological Survey, United Kingdom            |
| Therese Lowe          | IODP Management International, Inc., Washington, DC, USA                     |
| Yoshi Kawamura        | Center for Deep Earth Exploration (CDEX), Japan                              |
| Hans Christian Larsen | IODP Management International, Inc., Sapporo, Japan                          |
| Pierre Mathy*         | European Union   |

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Yoichiro Otsuka  
USA

IODP Management International, Inc., Washington, DC,

Alan Edwards\*  
\*Unable to attend

European Union

## **Tuesday June 26, 2007**

### Opening remarks

Rodey Batiza welcomed the council to the June 2007 meeting and thanked Joern Thiede as host at the AWI venue. Introductions followed of council members; Bruno Goffe was unable to attend and was represented by Elizabeth Kohler.

### Approval of the 2006 IODP Council minutes

Minor changes in 2006 IODP Council minutes needed e.g., spelling of names.

Motion to approve: J. Allan; Seconded C. Mevel.

### Agency Reports (Oshima and Allan)

**New membership FY2007:** Thanks were given to IODP-MI for holding a New Membership Forum during the year with seven new countries in an effort to attract new members.

- India has forwarded a draft memorandum for 1/6 membership for FY2008. From June 07 lead agencies will negotiate and make an agreement with it.
- Australia interested in ¼ membership and currently seeking funds for mid FY2008.
- Republic of Korea can supply \$300,000 per year for associate membership until founding a consortium

Lee adds that \$300,000 per year not exactly true as KIGAM continuously try to increase budget.

### **Annual Program Plan for FY2007:**

Approved on September 22, 2006. Additional carry forward sum (\$361,451 in total) was approved for SEDIS development and the continuation of Core Redistribution. There was a reduction (\$382,500) in the LTMS engineering project as the date of the contract changed with schedule changes.

The Lead Agencies were reviewing the Annual Program Plan for FY2008. Mevel mentioned that ECORD approved an increase in \$700,000 for the New Jersey Margin expedition POC budget because of a change in drilling platform.

### NSF Update

Jamie Allan reported that NSF must comply with Congressionally-mandated requirements for Major Research Equipment Facility Construction (MREFC) in regard to the SODV in Phase II operations. NSF and MEXT are still in consultation with these requirements but in short they necessitate tracking and reporting on the obligation of U.S. funds for MREFC facility operations, including funds used to support SOC Operations

for FY2008 and beyond. It is impossible to do this in the current system, where SOC funds to support SODV operations are commingled with other member contributions to IODP-MI, and then transferred via subcontract from IODP-MI to the Consortium for Ocean Leadership (formerly JOI). There have been no changes in the overall SOC approval process or in the distribution of other SOC funds. Mevel asked for examples. The purchase of d-tubes to keep the cores, salaries for a Curator at sea, support for labs and data management at sea were given as examples of activities supported by SOC operational funds, although the exact delineation is not precise and is in the process of being defined.

All MREFC projects must follow this new reporting requirement. Modifications to the NSF funding obligation system are needed and are being developed. NSF will no longer fund the ship dayrate from SODV MREFC funds on January 1, 2008 and must use the new reporting structure by then. The major outcome is that these SODV SOC operational funds, provided through NSF funds rather than commingled funds, will be routed directly through the NSF contract to Ocean Leadership, rather than by subcontract through the NSF IODP-MI contract.

#### MEXT Update

Toshiyuki Oshima, MEXT Liaison to NSF, in his report informed the Council that the Japanese finance ministry is working with a tight budget which will prevent the full operation of *Chikyu*. The current status of *Chikyu* will be recorded by CDEX at tomorrow's IODP Day. *Chikyu* will be ready for operations in September 2007 with an opening ceremony planned for September 21 by JAMSTEC at Shingu Port, Wakayama prefecture, before setting sail for NanTroSEIZE Expedition 314. MEXT will send more details of the ceremony at a later date and invite the Council to attend.

#### ECORD/EMA

Catherine Mevel outlined the ECORD Council, made up of 17 members from each of the participating ECORD countries. At this time, the chair is Raymond Schorno (Netherlands), and vice chair, Bruno Goffé (France). Goffé apologizes for not attending the meeting. Stefan Winkler-Nees (Germany) will also attend for Sören Dürr.

#### Mission Specific Expeditions

The New Jersey Margin expedition was postponed for various reasons; one of these was finding a suitable platform and to assist ESO in approving an increase in 750k in POC funds for a new platform. This funding increase has been approved by the ECORD Council; it is hoped that the New Jersey Margin expedition will get underway in the summer of 2007. ESO was also working on implementation of the Great Barrier Reef expedition.

#### Science Support

In September, the ESSAC office will move from Cardiff (Chair: Chris MacLeod; Coordinator: Elspeth Urquhart) to Aix-en-Provence with new chair Gilbert Camoin. ECORD plans to increase its activity within ECORD member countries and increase outreach to non-ECORD countries. ECORD encouraged ESSAC to involve scientists and

institutions in these activities, including cruises and expeditions, as an incentive for scientists to become members. Ways in which to achieve this were given:

- Summer schools
  1. Past Global Change Reconstruction & Modelling Techniques. Urbino, Italy.
  2. ECORD Summer School in Paleoceanography. Bremen, Germany

10 scholarships will be awarded, to 48 applicants from 12 ECORD countries.

- Lectures series
- Workshops on Marine Research Drilling (Magellan Workshop Series)  
ESF and EUROMARC funded projects
- ECORD Teachers' Workshop 2007 funded by ECORNET. Look for new funding for 2008
- EGU Booth and Town Hall Meeting (in conjunction with ICDP)  
Considering joint booth for 2008

Schorno added that ESF was funding new meetings within European countries for scientists to come up with new proposals, and will introduce a multi-lateral funding scheme when it is mature. A goal is for greater integration of science in Europe. More information on [www.esf.org](http://www.esf.org).

#### Funding

The challenge is to meet the 60% increase in participation unit starting 2008. Many ECORD countries evaluated their contribution to IODP during the time Oct 2003 to Sept 2006, assisted by an ECORD-wide evaluation by an independent committee. It reported that MSPs are essential to the program and intellectual contribution of scientists is highly valued.

For FY08 and beyond, contributions from several small countries are unchanged; other small countries did increase their contributions, –including Norway, Netherlands, Sweden and Switzerland and Spain. Major contributors will increase their funding, but in 3 countries, a decision regarding funding has not been made. The UK will evaluate their contribution after 5 years.

Funding to be provided to NSF will cover 3 Participation Units of SOCs, with the POCs for the Great Barrier Reef expedition split between FY08 and 09. ECORD is currently in talks with the European Commission to allow new funding schemes for MSP Operations. ECORD is trying to sell increased participation by noting they are an important part of a global program.

#### Deep Sea Frontier

Is an initiative to integrate existing programs at a workshop in Naples in June 06. Check [www.ecord.org](http://www.ecord.org) soon for papers. Endorsed by EU.

#### Aurora Borealis Project

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Large icebreaking ship with mounted rig that could potentially be used as an MSP in polar areas. Project is led by Thiede, in AWI but yet to find funding. Russia has expressed interest to participate. It is in the ESFRI list of priorities, and ESF Marine Board to support the preparation phase.

European Commission

Green paper signed by Initiative towards a future Maritime Policy for the Union. May help achieve support in EU in general for marine and maritime research.

Lastly, Mevel congratulates the Dutch Utrecht Project who won a prestigious academic prize worth €100,000 to spend on bringing science to the public.

Questions:

Any follow up on Arctic expedition? Talks about submitting new proposal.

New Jersey Shelf Expedition? Contract still not signed but optimistic. High demand from oil companies for platforms.

### **MOST**

Shen unable to join meeting from China. Renewed his offer to host this meeting in China next year. All agreed that we would need to meet in China and encourage their participation.

### **KIGAM**

Presented by Young-Joo Lee. Joining as Asian consortium in 2006, Korea reported that it could only provide \$300k for FY08 IODP SOC activities. Funding is not all on science also to support travel for research and E&O activities.

- The Asian Consortium is looking for New Zealand, Australia, Taiwan, and Russia. The New Zealand GNS are building a team to work towards acquiring funds from the government for membership. Plan to meet in October 07 to go over details. The New Membership Forum held in IODP-MI was a good process to invite more countries to join the Asian consortium.
- Other activities:  
Participate in AOGS in Bangkok with IODP booth. 2008 AOGS is being held in Pusan in Korea – hope to enforce IODP in Korea.  
Have contacted CCOP and SOPAC  
K-J workshops and working groups to drill Korean waters in the following five areas: Gas Hydrates; Tectonics; Paleoceanography; Deep Biosphere, and Backarc volcanism.
- Host SSEP 2008
- Interest in ICDP also. 1.2m to participate in ICDP for next year – still in negotiation stage.

Lee pointed out that Gas Hydrates were located using own vessel *Tamae 2*, piston coring facilities. 8m piston cores found gas hydrate, 99% methane. 1,700m. Drilling was supported by Ministry for Commerce and Energy. The excitement with site may increase money for drilling and it may expand in other waters around Asian waters.

Questions: Possible to invite the 3 countries to AOGS for a meeting as discussed in May meeting in Washington DC (New Membership Forum). Good timing for New Zealand, Russia is to follow up on membership.

#### SODV

An update on SODV reported that available funds were inadequate to stretch the ship as initially planned. Instead, the SODV would be rebuilt within the existing hull, making new hotel and science space by more efficient use of the hull. A Continuing Resolution was voted by the U.S. Congress for FY07 governmental funding, causing a delay until mid- February for availability of needed funds to enter into a shipyard contract. The new design in the hull proved too expensive for available funding, necessitating the shipowner to invest \$15M in their own funds in the project, paid back by NSF through increased dayrate from 2009 to 2013.

Break

#### **Role of IODP Council in IODP**

*The recommendation of IODP-MI Triennium Report suggests that the role of IODP Council in the program should be clarified. Based on our MOU, the Council serves as a consultative body reviewing financial, managerial, and other matters involving the overall support of the IODP. The Council will exchange views or opinions about the role of IODP Council.*

This implies great power; however, ODP Council in comparison showed more and was attended by all members as well as observed by the JOI Board of Governors. Not so with IODP-MI and its Board. The Council is composed of representative from government members funding the program who want a say in what is happening. The question arises if IODP-MI should consult with the Council on a regular basis, or should it only consult with the Lead Agencies. The recent one day meeting in April between the Lead Agencies solidified the draft program plan for FY08 activities. Mevel requested that as EMA provides platforms they should be involved in program plan construction at an earlier stage.

The Council should be a venue for all who contribute not just for information but also to raise concerns as they did in ODP. The IODP Program Plan will be sent to all members.

Schorno: ECORD. Works well to convey opinion of ECORD but miss the contact ECORD official decision to send representatives to speak as one voice at IODP Council meetings works well to convey ECORD opinion but diminishes the members contact with the program. The Lead Agencies meeting has become more important in drafting the APP.

The Council can only develop relationships by meeting face to face. The Council must reaffirm its importance and provide opportunities to strengthen relationships.

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Otsuka: According to the IWG, the Council is to sit as a consultative body. This is a little vague. The Council should discuss and comment on the Draft APP and the Council can provide governmental oversight. NSF and MEXT are to distribute the Draft APP to EMA and KIGAM. Comments can then be given to NSF who provides guidance to IODP-MI as the contract agreement states.

The APP is passed by SASEC and then approved by Lead Agencies. Any changes in APP should alert SASEC and the IODP Council. These alerts and changes can be notified by email rather than scheduling another meeting.

The official delivery date of the APP is August 1; it remains a draft document until that time. The Council can comment on the APP after official date of August 1.

IODP Council must be made more visible on the website.

Schorno: raises the long term plan – beyond year 12 of the Program. SASEC currently refocusing efforts on the ISP, efforts which may begin as early as 2008 to make it more like a 5 year plan. In 2011, planning should begin for beyond 2013. Mevel queried if two years before program end is long enough for the planning for renewal; Batiza thinks it is important to demonstrate some accomplishments well before 2013. Mevel brought up an issue on organization and structure of the program. The Council can set up a working group, no committee needed, but it must include all members. It was requested that this topic be put on the agenda for next year. This may necessitate more meetings towards the end of the program and more countries will get involved as in the IWG meeting. As this will involve EU, a more strategic agenda is required. Shukuri says the future of the council is unclear but there must be some kind of consensus making or share in direction by all members.

The evaluation of IODP-MI as a contractual activity should be shown to all the Council and it is for the Lead Agencies to consult and decide when this is to be distributed.

### **APP FY08**

There are major changes in the schedule with a drop of operating days on the *Chikyu* (4 months). Draft will be seen by all. Some leveling off required throughout the program as it is in excess of the Lead Agency-given fiscal guidance. IODP-MI will consult with IOs for minimum costs for operations.

Within JAMSTEC budgets are being hit too. At this time JAMSTEC does not have the expertise to operate the ship so a few years is needed to reduce operational costs. IODP is mandated to produce scientific results, so difficult in present financial conditions.

### **Management Report**

Many subcontracts within IODP. AESTO (Sapporo office), CDEX (2007), JOI (April 2005), BGS (March 2005); Bremen Core repository (October 2004), UCSD Scripps Inst. (Site Survey Data Bank) (May 2005); MARUM (Data Management) SEDIS Phase 1 (December 2006) and Phase 2 (June 2007).

### **SOC-POC guidance to IOs**

Recent clarification on instrumenting boreholes as 3<sup>rd</sup> party costs; wellhead completion, data transmission and casing represent POC. Development is SOC.

E&O can be supported by SOC funds. Most outreach activities are national activities, the question arises is whether the CMO should be engaged, some argue not at all.

Draft SOC-POC to become guidance and will be provided to IODP-MI.

### **IODP-MI Triennium Review**

Conducted very impressive review – results mostly positive with IODP-MI as a corporation. Improvement needed in communication between the two offices of IODP-MI, SAS needs to be evaluated in its efficiency, effectiveness and costs. The role of the Council should be clarified for the community.

IODP-MI BoG to consider the review further in their meeting later in the week.

### **IODP Funding**

Funds not used in a given fiscal year can be carried forward and must receive approval on what they will be used on in the following fiscal year.

Mevel asked that the extra \$750k New Jersey margin POC increase be included within a revised FY08 APP.

### **Audit report**

Due to an internal NSF delay in the audit, copies will be sent once complete. NSF assured that the money was spent wisely!

### **Payment of Schedule for International contributions**

Fiscal year problems: Member contributions often occur at the end of the fiscal year, too late to be spend on that fiscal year. NSF then needs to make up the difference; it needs to bill members for contributions earlier.

ECORD explained that the European fiscal year starts in January, which leads to a 3-month delay. No ECORD member country will pay before then.

Fiscal year different from US in Japan

NSF needs to clarify things in the billing cycle to make it sound more urgent.

### **New Members**

On May 16 a New Membership Forum meeting was convened to attract non-IODP countries to start a dialog. Presentations were made by SASEC, SPC, and the IOs.

Overall it was a good step towards building momentum.

Introduced the guest scientist mechanism: make contacts to form a pool of non-IODP scientists from which co-chiefs can select.

Difficulties include finding the correct person as a contact within country.

3 areas to concentrate efforts:



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1. Contact Brazil to start a dialog
2. Australia now in process of budget request and will see good results
3. IODP-MI will support Thailand, Pakistan, and Taipei to join the Asian Consortium

Other efforts:

Keep contact with Russia open. Russian financial situation is not good at present.

AOGs convenes in Thailand this year and Asian reps will be supported by IODP-MI as well as CCOP.

CCOP have an annual meeting with steering council. Good to promote IODP there with something more aggressive than a booth, perhaps a presentation. Lee to investigate further as it is directed this year by Korea as the Coordinating Committee of South East Asia.

Other interest:

Israel may join ECORD.

It is often a requirement to accommodate a scientist from the country in whose waters you are drilling.

Have been attempts to get Russia to join ECORD. Russian scientist on ACEX is good from the science perspective but scientists have little connection with funding agencies. By asking some scientists from Russia it can encourage formal collaboration with the idea that scientists sign an expression of interest and official document to lead to more formal collaboration.

### **Wednesday June 27, 2007**

9.30 start

IODP-MI Members observe.

Thanks host (and weather!)

### **IODP-MI Report of Activities and Accomplishments**

Manik Talwani

#### **NEW MEMBERSHIP EFFORTS**

India: Dialog open with India

Asia: AOGS Bangkok and CCOP Phillipines both with IODP Representation

Russia: plagued with financial problems but mentioned option of leasing ships as payment in kind which may be a possibility to renew arctic program with ice breaker.

Australia currently looking for funds for approval

New Zealand being contacted by KIGAM in Korea.

Brazil. Petrobras alone has large profits and 8.6% apportioned to use for academic research. However, this money must be routed through Brazilian universities and there is a need to establish a mechanism for funding Brazil this way.

Repeated the idea of Scientist pool from non-IODP nations as a way of attracting new membership.

Difficulties with attracting new nations:

If a country joins and pays 1m or 5m they ask if they can have drilling in their waters but we explain the proposal process do they see the benefit when any country can submit a proposal. Is their proportionate representation on the committee and panels really worth it? There is little incentive to join.

Talwani gives the example of India leasing the JOIDES Resolution directly (36m for four months) but it lacked the scientific expertise. As proposed in SASEC and it would not be part of IODP if it is useful to talk to different governments to propose that they take on the costs but IODP assists with scientists. This will help with funding but also can attract new countries as members and at the same time salvage something for the scientists and sustain the ship during months of unuse.

### **Budget**

Costs to run ships for 12 months for the USIO alone is 55-90m, and there is only 65m. 35 to 40 short. The increase is mostly due to increase in costs of running the ships.

*Chikyu*: 150-180m per year for riser drilling, this lowers considerably for non-riser.

The IODP started as a “Think Big” but as the reality of high costs and reduced funds emerge there has been unintended consequences with the short falls. Scientists before were told to concentrate on the science not the cost. This will need to change slightly. Morris adds that funds have actually increased 16.2% in 2008 to IODP with more in 2009 but no-one envisioned the budget constraints.

SPC is going to look at the proposals, take the observatories out and see where the priorities lie with the idea to take proposals with observatories in them and look at them in a group and rank them to see which activity is absolutely necessary.

Julie Morris notes that the NSF funds are as good as can be hoped for and hope that it does not take away from the emphasis on science, although it is not at the level once hoped. It is important to inform the community of the loss in funds appropriately but to promote the opportunities at the same time. Jamie Allan adds that scientists must be more flexible.

### **SASEC report**

Susan Humphris

SASEC met three times this year, including one meeting by video conference from three sites. It was a good model for some meetings but better for physical meetings

### **FY2008 DRILLING SCHEDULE**

New Jersey Sea Level is hoped for August

*Chikyu* NanTroSEIZE will do preliminary work logging while drilling and some riserless SODV is scheduled for two.

### **FY2009 DRILLING SCHEDULE**

Canterbury Basin

Antarctic A

Great Barrier Reef

### **LONG TERM PLANNING**

While dealing with short term problems IODP needs to take the successes and push them. SPC proposes to review cruises within the short-term of the next 2 years, the impact in the fundamental science needs to look longer term by an external group. SASEC suggests looking at it by theme rather than by cruise, e.g., 2007: evaluation on cruises on climate, then 2008 and 2009: crustal structure, then seafloor biosphere.

### **FOCUS ON SCIENCE**

The original plan was to update the ISP, a process set up with time line by Dec 08; however, given budget and drilling limitations if we wait till the end of 08 we'd have to write a plan for renewal. We propose writing a shorter document in a shorter amount of time with implementation for the last phase of the program. But we will ensure that planning goes beyond that point.

Will draft guidelines for SPC in August.

Draft guiding principles (see slide) nothing set in stone

1. High scientific impact in next 5 years
2. Necessary precursor for future investigations – build for the future
3. Reach major milestones
4. Balance between risk, cost and science impact (maximize low cost expeditions)
5. Integrated, interdisciplinary approach
6. Societal relevance
7. Minimum requirements for continuity:
  - MSP – once every 2 years
  - *Chikyu*: average of 7 months per year over a 5-year period (must include riser drilling)
  - SODV: average of 7 months per year over a 5-year period

We must keep proposals coming in. We don't want to lose the community

See appendix X for four areas of Science Focus, listed in no particular order

### **RECOMMENDATIONS RE: SAS**

Group set up last year to review its optimal use. As agreed by PMOs at SASEC, US and Japanese members to be reduced (US 7/7; Japan 5/5); ECORD and associate members to remain unchanged.

EPSP, STP, SSEP reduce meetings to once a year.

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### **OUTREACH ACTIVITIES**

Workshops, symposium and lecture series

2007: 2 planned workshops, 1 symposium

2008: only 1 workshop despite many proposals, DRILLS (Lecture Series)

### **RELATIONS WITH OTHER INTERNATIONAL & NATIONAL PROGRAMS**

ICDP, set up ad hoc committee to explore common core storage and cross-program evaluation of proposals

### **INDUSTRY PARTNERSHIPS**

As discussed by Manik Talwani, free up funds by allowing non-IODP activities for part of the year. SASEC recommends IOs and IODP-MI to work with community to develop and facilitate non-IODP work with industry or non-member countries.

### **MISSION REPORT**

Done in lieu of revising the ISP, thought of updating it but would have to focus on new areas, but didn't want to lose community so keep ISP but have smaller focus areas but not exclusive ones. SPC is to look at all proposals in August with OTF priorities and it is important to keep the proposal process active and keep the momentum going.

### **OTHER BUSINESS**

No new business. Main issue is going to be effective communication to the community. Stress that this must be done in fairly consistent manner.

Julie Morris expresses deep gratitude to Yoichiro Ostuka on his departure from IODP-MI. His involvement was there from the beginning in helping with MOU.

Otsuka-san in reply praises the IODP community and is very optimistic for the program because of the people involved. He introduces Takao Kato as his replacement as Senior Advisor to the President in IODP-MI.

Next meeting in China along with SASEC June 2008.

| Schorno asks that NSF/MEXT communicate to IODP Council after their meeting.