

**15th Meeting of the
ECORD Science Support & Advisory Committee
ESSAC
MINUTES
26th and 27th October 2010,
Hotel Uto Kulm
Zurich, Switzerland**



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List of Participants

ESSAC Office

Ruediger Stein (Chair)
Jeannette Lezius

ESSAC Delegate Germany
ESSAC Science Coordinator

ESSAC Representatives

Neil Banerjee
Georges Ceulener
Carlota Escutia
Rachael James
Helga Kleiven
Lucas Lourens
Xavier Monteys
Judith McKenzie (meeting host)
Werner Piller
Marit Solveig Seidenkrantz
Ian Snowball
Kari Strand
Paola Tartarotti
Antje Voelker

ESSAC Delegate Canada
ESSAC Alternate France
ESSAC Delegate Spain
ESSAC Delegate UK
ESSAC Alternate Norway
ESSAC Delegate Netherlands
ESSAC Delegate Ireland
ESSAC Delegate Switzerland
ESSAC Delegate Austria
ESSAC Delegate Denmark
ESSAC Delegate Sweden
ESSAC Delegate Finland
ESSAC representative Italy
ESSAC Delegate Portugal

Observers/Guests

Menchu Comas
Jochen Erbacher
Gretchen Frueh-Green
Gerald Haug
Patricia Maruéjol
Catherine Mével
Alan Stevenson
Damon Teagle
Helmut Weissert

IODP-Spain Scientific Committee
ESF Magellan Workshops
ETH Zurich, SPC
ETH Zurich
EMA
EMA
ESO
co-chief Superfast
ESSAC Alternate Switzerland

Apologies

Serge Berné
Bryndís Brandsdóttir
Elisabetta Erba
Anneleen Foubert
Nalan Koc
Rudy Swennen

ESSAC Delegate France
ESSAC Delegate Iceland
ESSAC Delegate Italy
ESSAC Alternate Belgium
ESSAC Delegate Norway
ESSAC Delegate Belgium

1. Introduction

1.1 Call to order, introductions

R. Stein welcomed all ESSAC delegates, observers and invited guests to the 15th ESSAC Meeting in Zurich, Switzerland. He thanked J. McKenzie for the organization and logistics of the meeting and the fieldtrip.

The ESSAC meeting started with the self-presentation of each participant.

1.2 Welcome and meeting logistics

J. McKenzie gave an overview about the general logistics as indicated in the agenda book.

1.3 Discussion and approval of the Agenda

R. Stein called the ESSAC delegates attentions to changes in the agenda:

As additional point, J. Lezius will add some statistic news and information received by Bremen Core Repository related to point 3.2 ECORD Evaluation committee.

A. Gilli will give a short presentation in combination with a guided tour leading into the social event on Tuesday evening.

C. Mével will add some words about the GOLD and Moho workshops.

A. Foubert is not able to attend the meeting and give a presentation about the next meeting location -Leuven. J. Lezius will give a presentation provided by A. Foubert.

R. Stein asked the ESSAC delegates, if they wished to add any other item on the agenda. The ESSAC delegates denied and approved the agenda.

ESSAC Consensus 1010-01: ESSAC approves the Agenda of its 15th meeting on October 26-27, 2010 at the Hotel Uto Kulm in Zurich, Switzerland.

1.4 Items since the 14th ESSAC Meeting/ESSAC Office news

R. Stein summarised the undertakings and the action items that the ESSAC Office had be done and fulfilled during the reporting period from May to October 2010.

Part of the undertakings (and the fulfilment of the related action items) are centralised in the respective thematic themes, and details are given by the respective lecturers.

> **ESSAC Action Item 1005-01:** The ESSAC Office will forward late nominations for South Pacific Gyre Expedition to USIO: 1st priority: Nathalie Dubois (UK), alternates: Cecily Chung (UK), Victoria Rennie (UK).

done

> **ESSAC Action Item 1005-02:** The ESSAC Office will contact IODP-MI and ask for status of Co-chief nomination for the Mediterranean Outflow expedition (644).

done

> **ESSAC Action Item 1005-04:** The ESSAC Office will contact Gretchen Frueh-Green to ask her if she is willing to stay within the SPC for one more meeting.

done

> **ESSAC Action Item 1005-05:** The ESSAC Office will send a letter to all alternates to ask them if they are willing to stay as an alternate. If they will stay in the pool of alternates they have to agree being an “active” alternate, i.e., being informed about the current activities of the specific SAS panel.

in process - new SAS structure

> **ESSAC Action Item 1005-06:** The ESSAC Office will send a letter to those who rotated off during the last months and for those rotating off in the near future, asking them if they are willing to become an alternate for one or two more years.

in process - new SAS structure

> **ESSAC Action Item 1005-07:** ESSAC Office will create a form for a standardized 1-page max CV for applications of scholarships.

done

> **ESSAC Action Item 1005-08:** ESSAC Office will include in future calls for ECORD Research Grants a statement that a detailed budget plan has to be outlined in the application.

Ok/done

> **ESSAC Action Item 1005-09:** ESSAC Office will send out a letter to Jean-Luc Berenguer concerning his idea about an "ECORD School of Rock" (Teacher's Workshop) and provide him guidance and contact to Eve Arnold, Carlo Laj and Consortium of Ocean Leadership.

done

> **ESSAC Action Item 1005-10:** ESSAC Office will send out a letter to previous lecturers of the DLP to ask for comments and experiences within this programme. ESSAC will also thank them for their efforts and collaboration.

done

> **ESSAC Action Item 1005-11:** ESSAC Office will send out a letter to new lecturers of the DLP with conditions and advices for their contribution to the programme.

done

> **ESSAC Action Item 1005-12:** ESSAC Office will send out a Call to host a lecture of the new DLP.

done

> **ESSAC Action Item 1005-13:** ESSAC Office will forward the list of possible candidates for the Joint IODP/ICDP Program Planning Group- climates & human evolution to SPC.

done

> **additional ESSAC Action Items:** Calls have been issued for Expedition 332 (deadline July 15, 2010) and Expedition 333 (deadline July 19, 2010). Short-term calls have been issued for Expedition 331 (expertise in sedimentology, physical properties, petrology; deadline July 15), Expedition 333 (expertise in micropaleontology (nannos), organic geochemistry, paleomagnetism; deadline September 28) and Expedition 334 (expertise in micropaleontology (nannos, forams, diatoms), organic geochemistry; October 07). A call with extended deadline has been issued for School of Rock (June 02,2010). A first call to host a lecture has been issued (deadline September 30) → it is still possible to apply via electronical mail.

R. Stein asked all participants for comments or questions. Everyone denied.

2. IODP News

2.1 Lead Agencies, SASEC, ECORD Council and IWG+

C. Mével summarized about news from the Lead Agencies, SASEC and IWG+.

Lead agencies

NSF

- No prospect in increased funding during this current phase
- 8 months of drilling/year
- As a consequence, the Cascadia II expedition is still pending because too expensive (CORK)

- In preparation for the decision for the new phase, an evaluation of the accomplishments of the successive IODP is being conducted by the National Academy of Science

- Report available by the end of the year

CDEX

- The Chikyu will not be able to reach the seismogenic zone during the current phase of IODP

- CDEX is now aiming at reaching the splay fault, at ~5 km depth
- CPP implemented next year (funding from MEXT)
- “Deep coalbed biosphere off Kimoshita”

- Consequence for the new phase: the first year or two will probably be dedicated to finish NantroSEIZE

- Currently considered as the next Chikyu projects:
 - CRISP
 - MOHOLE (but the technology is not yet ready)

Interest for the Mediterranean project (GOLD)

IODP-MI Board of Governors

- The chair (Brian Taylor) is rotating off at the end of the year
- ECORD representatives : John Ludden (UK)
Mathilde Cannat (France)
Gerold Wefer (Germany)
- Offer to appoint a chair from ECORD
- Gerold Wefer has agreed

SASEC meeting: Kyoto, Japan, June 14-15, 2010

C. Mével pointed on:

SASEC Motion 1006-04: SASEC approves the FY11 annual program plan presented at its June 2010 meeting, with the understanding that some budgetary matters remain to be finalized. SASEC emphasizes the importance of achieving the IODP science goals outlined in the FY11 APP and recommends approval by the IODP-MI Board of Governors.

SASEC Consensus 1006-11: SASEC has reviewed the alternative drilling scenarios for the remainder of IODP through 2013 that have been developed by SPC/OTF in response to SASEC Consensus 1001-14, and thanks them for the considerable effort they have put into completing this task. While SASEC understands there are transit penalties in going to the Indian Ocean, the committee strongly endorses the inclusion of drilling of Proposals 605- Full2 Asian Monsoon and 552-Full3 Bengal Fan before the end of the program. These address high priority scientific objectives of the Initial Science Plan (ISP) and important societal problems.

SASEC Consensus 1006-10: Based on discussion of potential workshops and scoping groups for FY11, SASEC makes the following recommendations:
1) A scoping group will be formed to refine Proposal 672-Full3 Baltic Sea Basin Paleoenvironment as suggested by the SPC Chair. 2) Requests for workshop proposals be solicited from the scientific community for FY11 that have an emphasis on scientific topics that prepare for the new scientific ocean drilling program.

R. Stein mentioned, that during the last SPC meeting it has been discussed that he will meet the Lund-group of the 672-Full3 proposal. He wondered about this SASEC consensus. C. Mével stated, that there was an ESO representative in this group to ensure that aims are able to reach. R. Stein asked about the deadline for re-submission of proposals? The deadline is mid January.

**Next phase of ocean drilling
New SAS structure and fate of current proposals**

SASEC Action Item 1006-08: A subcommittee of Keir Becker, Jan Willem de Leeuw, Gabe Filippelli, and Shoji Arai await guidance from IWG+ and the Second Triennium Review Committee on drafting of new SAS committee mandates. This action will occur over the course of the next few months with draft mandates circulated to SASEC as the time frame defined by IWG+ demands but certainly by the January 2011 SASEC meeting.

SASEC Consensus 1006-07: SASEC asks SPC to develop a plan for reviewing the pool of proposals currently within SAS and identifying those high priority proposals, with respect to the current ISP and the Science Plan for the new program, which will be considered for the first phase of scientific ocean drilling in the new program. SPC should finalize the plan at their August 2010 meeting and engage SSEP in this review process during their November 2010 meeting. SASEC would like to review the results of this proposal transition process at their January 2011 meeting.

Further information is given in the Minutes of that meeting:
http://www.iodp.org/index.php?option=com_docman&task=doc_download&gid=2989.

International Working Group +
Meeting in Kyoto last June

Points of Agreement

For the preparation of the MoU

- No more SOCs and POCs
- Commingled funds will need to pay for the integrative activities and contribute a minimum of 10 M\$ per year to Chikyu operations
- 3 member categories
- Lead Agencies (LA): at least \$ 50M per year, and \$ 1M to the commingled funds
- Platform Providers: at least \$ 20M per year, and \$ 6M to the commingled funds
- Members: at least \$1 M to the commingled funds
- Rights : under discussion
- 1/3 US - 1/3 Japan to the LAs
- 1/3 to the others

New SAS

- Built on the recommendation of the Triennium Review Committee
- Report available at : <http://www.iodp.org/triennium-review/>

The new Program will be managed by a Program Governing Board (PGB). The PGB will be responsible for the effective delivery of the Program's Implementation Plan with the available resources. Members of the PGB will be the LAs and the other funding agencies. *The PGB also will have representatives from the two major science committees, the Implementing Organizations (IO), the CMO, and possibly the CMO Board of Governors.*

New program architecture would be considerably simpler than present. The current three-tier system of SSEP, SPC and SASEC will be simplified into a two-tier system (Evaluation and Implementation), and only two essential service panels; namely EPSP and EDP/STP will be kept regularly under SAS.

There would be separate evaluation and implementation pathways for riser proposals, and for multi-leg riser-less proposals compared to single expedition riserless and MSP programs.

The current SAS structure is to be replaced by the new SAS structure in order of precedence from around June 2011. ToRs for the new SAS structure will be reviewed by the IWG+ once prepared by the SASEC working group.

Last SASEC meeting : June 2011

First call for proposals : October 1st, 2011

ECORD Council has received a letter from the ECORD members of EDP

Pleading for maintaining EDP in the future SAS

Will be discussed at the next ECORD Council meeting (two current EDP members will come)

Next IWG+ meeting : January 2011

NSF-MEXT-ECORD meeting at AGU

Everything should be finalized then

Program architecture and funding scheme
so the MoU can be written

SAS

so the new panels can be set up

New Name for the next phase of ocean drilling

NSF has expressed the need to change the name of the program

No more "drilling"

asked Sarah Saunders (CoL) to organize a process to make propositions

3 workshops (funded by NSF) - *marketing techniques*

- In the US in July

- In Europe in August

associated with the EMA-ESSAC-ESO meeting in Bremen

P. Maruejol, A. Stevenson, A. Gerdes, C. Mével, A. Benchikh, R. Stein, J. Lezius

X. Monteys, A. Kopf

S. Saunders, S. Menassian, G. Myers (CoL)

-In Japan in September

Concern about changing the name

Suggestion to add a tagline to better explain the program

Final decision

Committee composed of Rodey Batiza, Shingo Shibata, Catherine Mével,

Chris Yeats
+ Hans-Christian Larsen
Email discussion

Rodey Batiza (NSF): If we keep the word “drilling”, the NSB will say “no” to renewal, and even if they said yes, Congress would say no for the appropriation. They are concerned that their constituents would see that they voted for “Drilling”.

International Ocean Discovery Program (IODP)

« Exploring the Earth under the sea »

J. McKenzie supported the new name, because “discovery” has a very popular note. L. Lourens asked why “international” has been used instead of “integrated”. C. Mével explained that for the public it is important to be “international”. G. Frueh-Green underlined, that, mainly in the US, “the public” is the most important point. M. Comas was disappointed that after 40 years of being a drilling program the word “drilling” is not used anymore.

2.2 New science Plan

C. Mével updated about the new science plan.

- First draft distributed at the June meeting
- Request for comments within 2 weeks
ECORD Council sent comments - raised the issue of energy and resources
- Comments incorporated by the Science Plan Writing Committee (SPWC)
- Second draft posted on IODP website for comments from the community
- The SPWC met mid-October
Science writer (Ellen Kapel) has been appointed to edit the document
- When finalized the third draft will be reviewed by a « blue ribbon committee »
still to be appointed
- Then submitted to the funding agencies (*spring 2011*)

2.3 Science Steering Evaluation Panel – SSEP

R. Stein reported on the Science Steering & Evaluation Panel (SSEP) 14th Meeting, 18-21 May, 2010 Kochi City Culture Plaza Kochi, Japan, Co-chairs: M. E. Torres, Y. Iryu and H. Brinkhuis; Host: F. Inagaki.

Further information is given in the Minutes of that meeting:
http://www.iodp.org/index.php?option=com_docman&task=doc_download&gid=2973

2.4 Science Planning Committee (SPC) and Operation Task Force (OTF)

R. Stein gave a summary about the outcomes of the IODP Science Planning Committee meeting, the Operation Task Force meeting and the Program Member Offices meeting at Scripps Institution of Oceanography, La Jolla, San Diego University, California, USA, August 28th / August 30th to September 1st / September 02nd, 2010.

IODP Science Planning Committee 16th Meeting, 30 August - 1 September 2010, San Diego, CA, USA

Agenda

- Introduction
- Agency reports (MEXT, NSF, EMA/ECORD, MOST, KIGAM, ANZIC, MoES)
- Implementing Organization (IO) reports (CEDEX, USIO, ESO)
- IODP Management International, Inc. (IODP-MI) report
- SAS panel reports
- OTF Report: IODP expedition scheduling
- Collaboration with other scientific programs
- Shimokita Proposal (Exp 337)
- Prioritization of MSPs
- Proposal handling during transition II
- Approval of new SAS chair and vice-chair
- Future meetings
- Review of motions and consensus statements

Agency reports

(MEXT, NSF, EMA/ECORD, MOST, KIGAM, ANZIC, MoES)

MOST (China)

735-pre Opening South China Sea

South China Sea Project (Basin evolution, sediment response and deep biosphere;
22 MioUS\$)

New ocean drilling ship (proposal)

Ship similar to JR = riserless, but with mud-circulation system

Ship to be used for industry and science (50:50)

After 2013: China to be a full member?? (decision is still open)

ANZIC (Australia - New Zealand)

Asian-Pacific IODP Consortium

Potential members remain Australia, India, Korea, New Zealand and Taiwan

Seeking for full membership

Australia and New Zealand 30% of a membership unit

"economic benefits" important for (future) funding by New Zealand

MoES (India)

(coordinated by National Centre for Antarctic and Ocean Research, Goa)

Budget for science and education increased significantly.

Future of current SAS panels

Last meetings of existing SAS:

EDP (Engineering Development Panel) Jan 2011

SSEP (Science Steering and Evaluation Panel) Nov 2010

SASEC (Science Advisory Structure Executive Committee) Jun 2011

SSP (Site Survey Panel) Feb 2011

STP (Scientific Technology Panel) Feb-Mar 2011

SPC (Science Planning Committee) Mar (Aug) 2011

New SAS in place by Oct 2011

New structure

Proposal Evaluation Panel (PEP) will review proposals, pre->full proposal; only one nurturing cycle

Forward only the best ready-to-drill proposals to "Implementaion Panel"

First call for proposals Oct 2011

OTF Report: IODP expedition scheduling II (FY12)

Alternatives for Cascadia

(1) Newfoundland Drift (out of the game due to weather window)

(2) Costa Rica Mud Mounds (out of the game due to costs for running the CORKs)

(3) 681 Lesser Antilles

- Understand timing and emplacement processes of debris avalanche
- Eruptive history, tsunamis
- The one and only proposal related to Geohazards
- Attractive onshore-offshore link
- New group of proponents into the program
- Last SPC ranking no 6

(4) 551 Hess Deep

Important piece of puzzle we do not have so far

- Complementary to Superfast
- Last SPC ranking no 8

SPC Motion

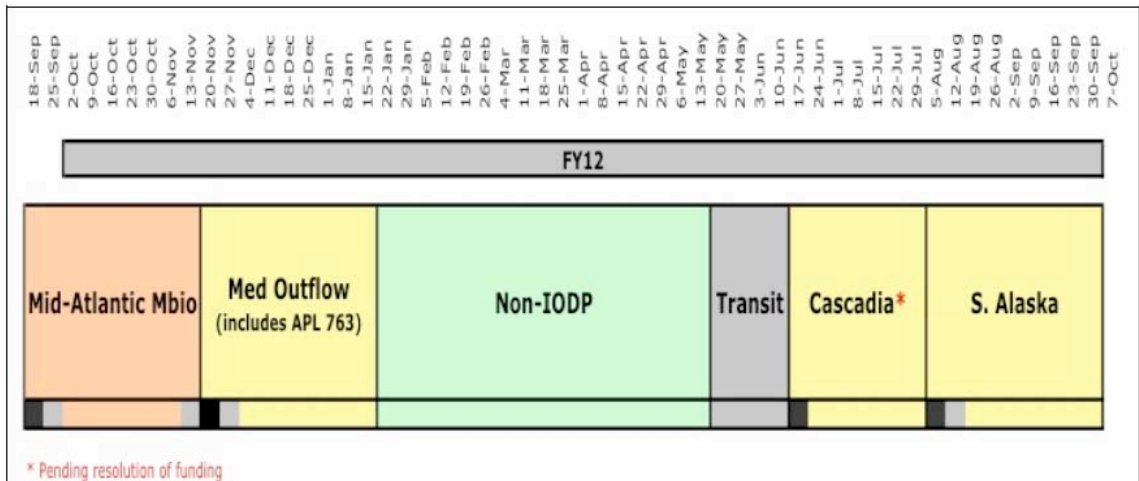
Lesser Antilles preferred alternative for Cascadia

(3 against, rest in favor)

APL 763 Iberian Margin

Proponents have to show that site is ok for paleoceanographic objectives

SPC approval for FY12 JR schedules with Lesser Antilles as alternative for Cascadia and APL-763 if seismic data are ok



Chikyu for FY12 (see OTF reports): Riser Drilling NanTroSEIZE
(no alternate program)
SPC approval by consensus

MSP
No drilling operations for FY12
SPC approval by consensus

→ FY12 schedule is approved

Collaboration with other scientific programs

Joint IODP-ICDP PPG for Climate-Hominid Evolution research
“Understanding of climate influence of hominids evolution”

Status:

Peter deMenocal (IODP co-chair)
Andy Cohen (ICDP co-chair)

Co-chairs should select members (12 persons)

PMOs will be contacted about memberships

First meeting (winter) in Lamont, continuing via emails, last meeting beginning 2012

ICDP responsible for travel costs of ICDP people

Shimokita Proposal (Exp 337)

Original proposal
Site C9001 drilled to 647mbsf, cased to 511 mbsf
Operation: Re-entry, drill core & CSG to 2200 mbsf

745CPP Addendum
New non-riser site C9002, close to riser-drilling site C9001 (30m distance)
300mbsf (max 365 mbsf)
Chikyu shakedown exp 365 m of sediments recovered in upper sed section, but
In-situ geochem and geophys properties of methane gas hydrates not measured

Ops: Wash down to 200mbsf, core down to 300mbsf

Contingency plan if riser drilling not possible
(addressing the same objectives as the original?):
Non-riser at same site location (C9001-1A)
Drilling and coring with HPCS/ESCS/RCB systems
Full coring; max penetration of 1700mbsf

Concerns by EPSP: no ok to drill so deep into an active hydrothermal system

Prioritization of MSPs

Chicxulub
Hawaii
Coral Banks
Baltic Sea

New England Hydrology
Nice Land Slides

→ Wait for prioritization until March Meeting

Proposal handling during transition II

has to be considered:

- readiness of proposals, geographical distribution
- proposals “blood of the program”
- proposals should all be sent to PEP?

- almost all proposals are related somehow to the new science plan
- exciting proposals sitting at SSEP/SPC/OTF should be forwarded into the new program
- proponents of all other active IODP proposals should be invited to submit a new version of their proposal to the new program

SPC Motion:

- SPC asks SSEP to analyse all proposals in Nov 2010 and determine which have the highest scientific potential and which APLs align with FY2012 drilling schedule and draft FY13 shiptrack

- SPC will consider OTF and SPC proposals at March 2011 for transferring to the new SAS

at the March 2011 SPC Meeting, SPC will consider the prioritization of proposals from SSEP when SPC decides which proposals to transfer to the new SAS

SPC will work with IODP-MI in the Mar-Aug 2011 timeline to individually advise proponents of all proposals as to the status of their proposal.

Approval of new SAS chair and vice-chair

STP chair and vice-chair

Saneatsu Saito (Chair)
Douglas Schmitt (Vice-Chair)
à Approval by consensus

SSP chair and vice-chair

Gilles Lericolais (Chair)
David Mallinson (Vice-chair)
à Approval by consensus

Future meetings

March 2011 (Europe) (TBN)
28-31 March 2011, Edinburgh

Program Member Offices (PMO) Meeting

USSSP
K-IODP
J-DESC
ESSAC

IODP China
IODP India
ANZIC

New Science advisory structure (SAS) issues

- Before send out the call for membership in the new panels, important information is needed (from IWG+):
 - Rules of conflict of interest?
 - Proportion of representation?? (until end of 2013/running phase of IODP similar to the existing proportions?)
 - Terms of reference???
 - PEP (four sub-panels related to the four main themes, about 10 members each?)??
 - SSP ???? (separate panel or 5th sub-panel in PEP?)
 - Should “old” panel members continue serving in the new SAS?
(decision up to the PMOs, balance should be guaranteed)

Official request to IWG+ to get answers related to the above mentioned points

Coordination of domestic and international workshops

- communication issue (advertisement)
- use Scientific Drilling, IODP-MI website, etc.

PMO consensus:

- all workshops should be announced on IODP-MI website with link to PMO homepage

- should be the possibility to invite non-IODP people (e.g., Africa, etc.)

Expedition staffing issues

Chikyu:

Give in time the schedule and scientific objectives (mini-prospectus)
Schedule, expertise needed, etc.

Other business

- Discussion of post-expedition meetings
 - better communications/informations to PMOs about -
 - post-cruise meetings, sampling parties etc.
 - (timing, place, list of people who will attend, etc.)

2.5 Outreach Co-ordination Group

A. Stevenson reported about the Outreach Co-ordination Group meeting, held in Tokyo, September 14-15, 2010.

- Note change from Task Force to Co-ordination Group
- IODP-MI has appointed new Communications Officer, Mikuyi Otomo
- Reviewed outreach at each of the IOs - Sarah Saunders (USIO), Alan Stevenson, Albert Gerdes and Patricia Maruejol (ESO/ECORD) and Shin'ichi Kuramoto (CDEX). Meeting also attended by Kiyoshi Suyehiro, Hans Christian Larsen, Jamus Collier (IODP-MI) and Shingo Shibata (MEXT)
- Discussed Naming Workshops
- Ideas for Outreach Chapter of post-2013 Science Plan; subsequently drafted and submitted to IODP-MI
- ECORD/ESO video

(company produces the promotional video, target is to have it ready for EGU 2011, about 15 minutes for conferences, and some short DVDs about 2 minutes for youtube and social networks)

C. Mével added the information that NSF supports outreach activity to be taken by central management as a general overarching collaboration for outreach.

3. ECORD News

3.1 EMA – ECORD Council meeting

C. Mével reported about the ECORD Council meeting.

News from the ECORD Council

- ECORD Council met in June, Berlin

ECORD executive met in September, Roissy Charles de Gaulle

Next meeting: November 17-18, Paris

From Oct 1st

New ECORD chair: Mireille Perrin (CNRS, France)

Vice chairs: Anne de Vernal (Canada), Guido Lüniger (DFG, Germany)

Changes at the ECORD Managing Agency

The EMA moved to the new IPGP building

ECORD Managing Agency

IPGP Bureau 362 1, rue Jussieu 75238 Paris cedex 05

Tel : +33 (0)1 71 93 76 57

ECORD Council motion 10-01-3

ECORD Council approves the nomination of the following new SAS members by ESSAC:

SPC: Javier Escartin (F), Heiko Pälike (UK)

SSP: Peter Clift (UK)

EDP: Neal Whatson (UK)

By Email, approved

EPSP: Martin Hovland (Norway)

ECORD Council consensus 10-01-3

Although Iceland has not paid its contribution to ECORD since FY09, ECORD Council encourages ESSAC to consider the application to sail on an IODP expedition submitted by an Icelandic scientist. The decision regarding this application should be made exclusively on scientific merit.

C. Mével showed the **ECORD budget**.

Current phase of the program

With the current funding, not enough money to implement two MSP expeditions

Memorandum :

3 PU to the commingled funds (SOCs)

1 PU for MSP operations (POCs)

ECORD Council tried to negotiate modifying the SPC/POC ratio with the LAS

However, ECORD currently contributes most of the SOC's

Lowering our SOC contribution would have a very negative impact
Integrative activities: proposal evaluation, core curation, databases, etc...

Therefore, it was finally decided to keep our SOC/POC ratio as 3/1

Consequence: only one major MSP expedition
Possibly an additional cheap one, using a seabed drill
being investigated by ESO

Next phase: all ECORD member country are hoping to keep the same level
of contribution - although funding situation difficult

ECORD budget currently US\$ ~21.5 M
EMA + ESSAC budget US\$ ~0.5 M
Available US\$ 21 M

“Platform Provider”

At least US\$ 20 M, including 6 M to the commingled funds

US\$ 6 M to commingled funds
US\$ 15 M for MSP operations
No more SOCs and POCs

~ US\$ 15 M per year should allow for one MSP per year
But there will be less commingled funds, unless other members increase their
contribution

ECORD council is willing to put an emphasis on Arctic drilling
visibility, only MSP can do it, major theme of the new science plan
To balance the budget, implementation of cheap expeditions using seabed drills
Arctic drilling requires site surveys
Recommendation from the ECORD executive to ESSAC:
Organize a workshop to develop a plan for collecting the necessary site survey
data

Same need identified by ERICON-AB project
Naja Mikkelsen has offered to organize the workshop

- ECORD Council is also aiming at developing joint projects with other funding
source
EC, industry, other governmental sources, new countries....
A business plan is being developed, for submission to funding agencies

The role of ECORD could be broader than just being the member of an
international program. ECORD could conduct its own projects
This will be discussed at the next council meeting
Aim : to be recognized as an ESFRI

- EMA and ESO still to be identified for the next phase

Recommendation of the ECORD executive :
“In order to ensure a smooth transition, the executive suggests that CNRS
continues to host EMA and BGS to host ESO during the three first year of the new
program. This consensus needs to be approved by the whole Council at its next
meeting.”

ECORD legal structure

Currently, MoU
Non binding

Investigation of the ERIC scheme (European Research Infrastructure Consortium)

“Société Civile” (french law)

In progress, will be discussed at the ECORD Council

Role of ESSAC in the next phase

Discussed at the ECORD executive meeting

ESSAC - and the science community - should have a more proactive role in seeking for external funding.

ESO should assist closely the applicants to work out their proposals and to look for additional funding

ECORD Industry Liaison Panel

ECORD Council consensus 10-01-2

ECORD Council supports the proposal of Sasha Leigh (NERC) to organise a joint industry-academia workshop to discuss potential cooperation in the Arctic.

This workshop will be organised by the ECORD Managing Agency, with the support of Sasha Leigh and UK IODP, and in consultation with the ECORD ILP and ESSAC

In preparation for this workshop, the ECORD Council members will be requested to contribute

- names/groups to which the Arctic brochure should be sent to,
- names/groups who should be invited to participate in the workshop.

Brochure produced by UK IODP to distribute to industry and encourage to develop joint projects

Still to be printed

Workshop academia and industry planned for next spring
(not yet scheduled)

Please send nominations for possible participants to EMA

*C. Escutia asked if there is any discussion about the Antarctic? - access to Andriill?
C. Mével explained that there is no discussion yet, but industry has strong interest to go into the Arctic.*

Deep sea and seafloor frontier

EC-funded project to develop a road map for the next 15 years
Coordinated by Achim Kopf

For a better integration of drilling with other initiatives that address deep seafloor processes

1 M€ over 2.5 years

Important to increase our visibility with respect to the EC

However, money only to support workshops and develop a road map

Should help promoting the DSF concept for more substantial funding under FP8.....

It is important to promote the new science plan and possibly other drilling initiatives (GOLD project) to make sure that they are included in the road map and therefore visible to the European Commission

6 scientific work packages

WP1 Lithosphere - biosphere interaction & resources

WP leader: Yves Fouquet, IFREMER, France
Gretchen Früh-Green, ETH Zürich, Switzerland

WP2 Sedimentary seafloor and sub-seafloor ecosystems: past, present & future links

WP leader: Timothy Ferdelman, MPI, Germany
Judith McKenzie, ETH Zürich, Switzerland

WP3 Deep biosphere

WP leader: Bo Barker Jørgensen, Aarhus University, Denmark
R. John Parkes, University of Cardiff, UK

WP4 Sediment dynamics & geohazards

WP leader: Miquel Canals, University of Barcelona, Spain
Vasilis Lykousis HCMR Athens, Greece Marine geohazards

WP5 Geofluids and gas hydrates

WP leader: Jürgen Mienert, University of Tromsø, Norway
Angelo Camerlenghi, University of Barcelona, Spain

WP6 Climate change & response of deep-sea biota

WP leader: Heiko Pälike NOC – Univ. Southampton, UK **X**
Ralph Schneider, Univ. Kiel, Germany

3 “technical” workpackages

WP7 Mission-specific subseafloor sampling

WP leader: Catherine Mével, IPG Paris, France
Maria Ask, Luleå Technical University, Sweden

WP8 Infrastructure & Synergies

WP leader: Angelo De Santis, INGV, Italy
Phil Weaver, NOC – Univ. Southampton, UK

WP9 Management & science-policy interfacing

WP leader: Achim Kopf, MARUM Bremen, Germany
Antje Boetius, Alfred-Wegener Inst. for Polar & Mar. Research, Germany

Will build on the results of the scientific workshops

WP7 is planning a joint meeting with the IODP Engineering Development Panel

Major workshop will be organized in Barcelona, in the fall of 2011

(this meeting has to be a mixture → try to have young people, this information has been distributed widely.)

This projects gives us some visibility at the EC level

Achim Kopf was invited to present a keynote talk at the EUROCEAN meeting
Oostende, Oct 12-13, 2010

Highly political meeting

Oostende declaration:

To promote marine and maritime science

<http://www.eurocean2010.eu>

Session at EGU

OS3.4/EG9Deep Sea Frontier - A European Challenge
Convener: Achim Kopf, Co-
Conveners: Timothy Ferdelman, Heiko Pälike, Catherine Mevel

Link: <http://meetingorganizer.copernicus.org/EGU2011/session/6953>

J. McKenzie asked how to develop a program that is suitable with industry. C. Mével explains that this is exactly the aim of this workshop! J. McKenzie asked if they will support specific projects but not one program? C. Mével replied that this is what ECORD is considering. Both agreed that own projects may have a higher chance to get funded by industry. J. Erbacher argued that IODP is too slow for industry and their purposes.

3.2 ECORD evaluation committee

C. Mével gave a report about the ECORD evaluation committee:

ECORD Council consensus 10-01-7 (Berlin meeting, June 2010)

At its last meeting in Rome, ECORD Council passed the consensus 09-02-3:

“ECORD Council recognises the need for an independent evaluation of the ECORD scientific achievements using ocean drilling and of future prospects in a new programme of sub-seafloor exploration.”

ECORD Council decides to include not only the evaluation of the scientific accomplishments but also of the MSP operations. Therefore, the new evaluation should be built among other things on the outcomes of the mid-term evaluation review (available at: <http://www.ecord.org/enet/ecord-midterm-review.pdf>)

1) The first task is to conduct an evaluation of the role of ECORD in the scientific achievements of IODP (2004-present). This will cover three aspects:

- the analysis of IODP scientific achievements with a particular emphasis on the role and impact of ECORD scientists: proposal submission, cruise participation (including co-chiefs), post cruise scientific publications....
- the analysis of the impact of mission-specific platform (MSP) expeditions on the IODP scientific accomplishments. MSP expeditions are funded by ECORD and operated by the ECORD Science Operator for the whole IODP scientific community.
- an overall assessment of the efficiency of MSP operations, building upon the IODP Operation Review Task Force reports

2) The second task is to assess the new science plan for the future ocean drilling program, post 2013 and in particular the need for a strong MSP program to address the scientific objectives

Timeline

- September 2010 - ECORD Evaluation Committee appointed (6-8 members)
- 1-2-3 February 2011 - first meeting of the ECORD Evaluation Committee - work plan organized
- April 2011 - first draft of the report submitted
- June 2011 - final report presented to the ECORD Council meeting

Membership

Independent committee

Nominations by ECORD council members

Selection by “Academia Europea”

	Affiliation	expertise
Arne Bjorlykke (chair)	Museum of Natural History, Oslo, Norway	Marine geology
Joe Cann	University of Leeds, UK	Ocean lithosphere
Katherine Richardson	University of Copenhagen, Denmark	Biological oceanography
Miquel Canals	University of Barcelona, Spain	Sedimentology, slope failure
Ilmo Kukkonen	Geological Survey of Finland	Applied geophysics, ICDP
Hedi Oberhänsli	GFZ, Potsdam, Germany	paleoclimate
Rémi Eschard	IFP Energies nouvelles, France	Sedimentology

Statistics on ECORD involvement

ECORD participants
 ECORD proponents
 Publications

ESSAC is working on assembling the information with the help of national offices

Scientific accomplishments : 7 major topics

Individuals indentified to make a presentation at the meeting

- 1) Climate variability: Carlota Escutia
 North Atlantic climate (303-306), Pacific Equatorial Age Transect (320-321),
 High latitudes: Bering Sea (323) Wilkes Land (318)
- 2) The Arctic: Jan Backman
 ACEX (302)3)
- 3) Sea level change: Gilbert Camoin
 Tahiti (310) and Great Barrier Reef (3125)
 New Jersey Shallow shelf (313) and Canterbury basin (317)
- 4) The deep biosphere: Kai Uwe Heinrichs
 Okinawa (331), South Pacific Gyre (329), Mid Atlantic ridge (336)
- 5) Fluid flows: Michael Riedl
 Porcupine (307), Gulf of Mexico (308), Juan de Fuca Hydrogeology (301-327),
 Cascadia gas hydrates (311-328)
- 6) Ocean lithosphere: Damon Teagle
 Fast spread crust (309-312-335), Atlantis massif (304-305)
- 7) The seismogenic zone: Achim Kopf
 NantroSeize (314-315-316-319-322- 26-332-333)
 Costa Rica Seismogenesis Project (334)

ESO will summarize operations

Mike Bickle will present the new science plan

Meeting with Arne Bjorlykke to set up the agenda for the February meeting

It is really important that national offices and ESSAC members provide the information required by the committee

The outcome of the evaluation will have a strong impact on the decision at the national level for continuing in the next phase

J. Lezius presented the efforts of the ESSAC Office to receive statistical information by ESSAC delegates. As an outlook she presented some statistical plots created of data she already received by Bremen Core Repository.

C. Mével emphasised that it is an ECORD evaluation, with a look to ECORD in general not into all single countries. She reprecads that the information about publications to be provided by delegates is of high importance.

Even tough it is hard to collect all publication data and it will never be a complete record it will be an impressive number and one has to do this even for their national funding agencies.

> **ESSAC Action Item 1010-01:** ESSAC Office will send out a summarizing email regarding requested dates for statistical information.

> **ESSAC Action Item 1010-02:** ESSAC Office will ask Bremen Core Repository for a list of shore-based scientists.

> **ESSAC Action Item 1010-03:** ESSAC delegates will collect dates about published IODP-related papers (+ dissertations) of all their scientists and send the data to the ESSAC Office by deadline December 22.

ESSAC Consensus 1010-02: ESSAC delegates agreed to collect dates about published IODP-related papers (+ dissertations) of all their scientists and send the data to the ESSAC Office by deadline December 22.

3.2 ESO

A. Stevenson reported about recent ESO activities as IODP Expedition 325 - Great Barrier Reef Environmental Changes. He also presented some update of IODP Expedition 313 - New Jersey.

Preliminary Scientific Assessment

(1) Establish the course of postglacial sea level change in the GBR.

- Cores were recovered from 42 to 127 mbsl.
- Most, if not all, of the postglacial sequence from the LGM to the present day was recovered.
- Preliminary chronology confirms that the recovered cores span this period.
- High-quality coral samples, consistent with shallow, high-energy settings, were taken for dating and sea level change investigations.
- **The results are expected to fulfil the first objective.**

(2) Define sea-surface temperature variations for the region over the period 20-10 ka.

- Massive coral colonies suitable for paleoclimate studies and spanning the LGM and postglacial sequence were recovered in the cores.
- During the OSP, >200 massive coral colonies, including 17 Porites, were slab-sampled for paleoclimate studies.
- **The results are expected to fulfil the second objective.**

(3) Analyze the impact of sea level changes on reef growth and geometry.

- Cores were recovered in various water depths situated on four transects in three different geographic areas along the GBR.
- Results of analyses of samples taken during the OSP will be interpreted in a broad temporal and spatial context, which will allow better understanding of the development of the GRB in response to environmental changes.
- **The results are expected to fulfil the third objective.**

Additional scientific outcomes from Expedition 325 include:

- New sea level and paleoclimate information from recovered corals that likely span the **LGM (MIS2), pre-LGM (MIS3),** and several **earlier Pleistocene** periods.
- A 33.3 m record of near continuous sedimentation was recovered in Hole M0058A from the fore reef slope. This will provide a high-resolution record to complement the sea level and paleoclimate records derived from the reef cores collecting on the shelf edge.
- IODP Expedition 325 Preliminary Report published online.
- Editorial meeting 7 - 11 December.
- Operations Review Task Force, late Feb/early March 2011.

New Jersey update

- NJSS Expedition is 10 months into moratorium period
- Expedition Report Editorial Meeting was held at TAMU from 3-7 June
- Peer-reviewed papers from Expedition 313 are expected within the next few months.
- Results from the Expedition will be reported at the AGU Fall Meeting, 13th-17th December, San Francisco, at Special Session PP13F: Sea Level, Near-Surface Currents, and the Stratigraphic Record: Recent Results. The session will be co-chaired by the Expedition 313 Co-chief Scientists Greg Mountain and Jean-Noel Proust.

Future Plans

- ESO has been directed by ECORD to aim to implement at least one Mission Specific Platform Expedition before the end of the program.
- ESO is currently scoping 3 ranked proposals in parallel:
 - Proposal 548 Chixculub K-T Impact Crater
 - Proposal 716 Hawaiian Drowned Reefs*
 - Proposal 581 Late Pleistocene Coralgall Banks*
- *potential for sea bed rock drilling
- Final decision will depend on
 - platform costs and availability (currently unknown)
 - permitting (in progress)
- Hawaii and Coralgall Banks: ESO is exploring the use of sea bed rock drills, including developing logging capability. Has proponent support.
- ESO is organising scoping meetings with proponents for all three expeditions:
 - Chixculub, 12 October, Edinburgh.
 - Hawaii, 15 November, Edinburgh.
 - Coralgall Banks, early January (TBC).
- Enlisted help of Mexican proponents to visit Mexican authorities.
- Visited Hawaiian authorities, March 2010.
- ESO will also consider any new proposals that are ranked and forwarded to OTF for scheduling.
 - e.g. potentially
 - Baltic Sea Paleoenvironment [672 Andren]
 - Nice Airport Landslide [748 Stegmann]
 - and others

3.3 ESO-EMA-ESSAC Meeting

P. Maru ejol reported about the ECORD Outreach since June 2010.

- **EMA-ESO-ESSAC meeting in Bremerhaven on August 24-25**
- **ECORD Publications:**
 - ECORD Newsletter #15 to be released early November
 - ECORD Flyer updated
- **ECORD at international conferences:**
 - EurOcean 2010, Ostend, Oct., 12-13
- **Providing materials to national initiatives in ECORD member countries:**
 - Loan of core replicas
 - Publications / National IODP Flyers
- **IODP-Outreach meetings**
 - Post-2013 Naming Workshop, Bremen, Aug. 22-23
 - IODP Outreach TF meeting, Tokyo, Sept. 13-14
- **In stock for distribution**
 - ANSWERS
 - ECORD flyer
 - Pocket folder
- **To be revised**
 - Pocket folder: NJJS, GBREC flyers
- **To be released**
 - Newsletter #15 - November 2010:
 - 20-page issue
 - News from the ECORD Council, EMA, ESO, ESSAC and ECORD Outreach,
 - Reports on ECORD Summer Schools 2010 and Magellan Series Workshop,
 - 'A Letter from the Netherlands' (L. Lourens, J. Stuefer and H. Brinkhuis),
 - a presentation of the Kochi Core Centre (L. Gupta)
 - the *Aurora Borealis* (B. Wolff-Boenisch).

ECORD Materials

- **ECORD flyers for national offices:**
 - Canada and IODP: IODP-Canada distributed 150 copies in Victoria (port-call on Sept. 6).
 - Ireland and IODP: To be distributed at Geoscience
- **Loan of core replicas:**
 - Urbino and ECORD-Canada summer schools,
 - University of Aveiro, (L. Menezes-Pinheiro)
 - Leicester University (S. Davies)
 - Lyc ee International Valbonne (J.L. B erenguer,
- **ECORD materials at IODP booths organised at national Earth Science meetings:**
 - IODP-Portugal at the Portuguese National Geological Congress,
 - IODP-France at the RST in Bordeaux),
 - IODP SAS meeting (EDP in Geneva)
 - and conferences (Deep-water circulation in Pontvedra).

Future - November 2010 - April 2011

ECORD will be present in the IODP booth at AGU 2010, Dec. 3-8
Next EMA-ESO-ESSAC meeting: early February 2011 in Paris

Plans for EGU 2011:

- To reconduct the joint IODP-ICDP booth
- 2 press conferences: GBREC results and New Science Plan
- Joint IODP-ICDP Townhall meeting
- Joint IODP-ICDP session

ECORD Newsletter #16 - to be released at EGU

- Call for contributions - to be issued early February 2011
- Deadline for authors contributions: **March 8, 2011**
- The following items have been identified:
- 'A Letter from Switzerland' by J. McKenzie, G. Früh-Green and M. Kern-Lütschg
- The future of Magellan Workshop Series,
- and possibly, an article on the new science plan

New IODP core replicas for ECORD use (NanTroSEIZE, GBREC?)

3.4 ESSAC representatives and National Office reports

ESSAC delegates reported about their activities in their countries.

K. Strand reported about a Finnish sample request for Wilkes Land Expedition material. One Finnish scientist is involved in the Arctic Sea proposal.

A. Voelker reported about the national science conference in Portugal with one session about the deep sea and deep sea floor. She also reported from a meeting with the president of the national science foundation where they tried to convince him to give more contribution to ECORD. The meeting was successful, but if they will receive more money is not clear yet. Portugal presented the core replicas at a booth in a national congress and a University exhibit. The Portuguese School of Rock Teacher Helder Pereira gave a presentation about the SOR, he also gathered a list of interested persons.

Lucas Lourens shortly gave an overview about the activities of the Netherlands. They helped to prepare the COST proposal (Magellan Workshop Series), Henk Brinkhuis is promoting the Wilkesland Expedition, Outreach DVD is available.

Ian Snowball summarized the Swedish activities. He prepared a review 2007-2010 for the Swedish research council. Jan Backman was invited to act as co-chair at the last SSEP meeting. They made great efforts to contact community to comment on the New Science Plan. The Lund group held the Baltic Proposal meeting. No applications to sail and so application for Summer Schools from Sweden.

Paola Tartarotti explained that the economic situation of Italy is still critical. Elisabetta Erba stopped forwarding Emails to the Italian community, to stop the Italian request. Paola Vanucci will be co-chief of Expedition 333. Italy has a good database of Italian publications, so they will be able to compile data requested for ECORD evaluation. They asked for a session at next GEOItalia conference, also asked for a booth - and would therefore like to ask for core replicas. The Italian Newsletter is issued 2 times per year. In November 2010 there will be a presentation of Aurora Borealis included in an outreach meeting. They organize a short course by using a microfossil collection (including IODP material).

X. Monteys reported about an Irish scientist on board JOIDES Resolution, which is the first one within IODP. A national geoscience initiative will present IODP results (G. Camoin is invited to present some news about the New Science Plan).

Kikki Kleiven complained about the Norwegian problem to bring people to sail - even there is a good funding situation in Norway, Norwegian PhD students don't want to loose time. Additionally, most universities have own boats, what is preferred to work on instead of two month on a drill ship. Since there are jobs in industry available (payed

twice compared to university), it is a challenge to convince the scientists to sail on IODP. They have a very good dialogue with the national research council.

M-S. Seidenkrantz reported about on Danish scientist sailing on South Pacific Expedition. Denmark is creating a website purely for natural science outreach. The research council stopped paying for trips. The new chairman of the research council is not interested in geology.

C. Escutia reported about a meeting with the Spanish Ministry of Science and Innovation. She received some funding for a secretary to do the dossier for the ECORD evaluation. The national geoscience meeting will have an IODP booth. They are happy to see the Mediterranean Outflow proposal scheduled. The New Science Plan has been distributed.

N. Banerjee was happy to announce that the Canadian funding until the end of the program has been increased by an amount of 500000 dollars. At the port call end of September (327/328) about 250 people joined, also press, radio and TV had been on board. Neptune database will show linkages with IODP. 3 Canadian will sail: Deep Hot Biosphere, Louisville and Superfast. IODP Canada has a new science coordinator Diane Hanano, who is currently working on the statistical data. There was a joint IODP ICDP booth at the Canadian meeting. The request for comments on the New Science Plan was distributed,

G. Ceuleneer reported about French activities. Many people applied and sailed on expeditions, the community is quite active. Marion Dufresne is available and proactive in paleoclimate. Therefore it is quite important to convince the national research council that a lot they are very interested in earth science. IODP-France Office (Benoit Ildefonse) is quite active with the website and writing the newsletter, he is presently on a national congress and tries to attract people to the program. After 7 years Benoit will hand over the national office to George Ceuleneer, who will be the new chair of IODP-France.

W. Piller stated that until now there are no Austrian scientists sailing, but they look optimistic into the future since there will be applications for the next expeditions. They are looking forward to 2011, especially since they are benefitting from ICDP.

R. James reported about the UK program review in order to collect all data (publications, activity in sailing, proposals etc). They will send out a questionnaire to members of the UK IODP community and also the "not involved" community (industry). The UK funding situation suffered a cut of 10%.

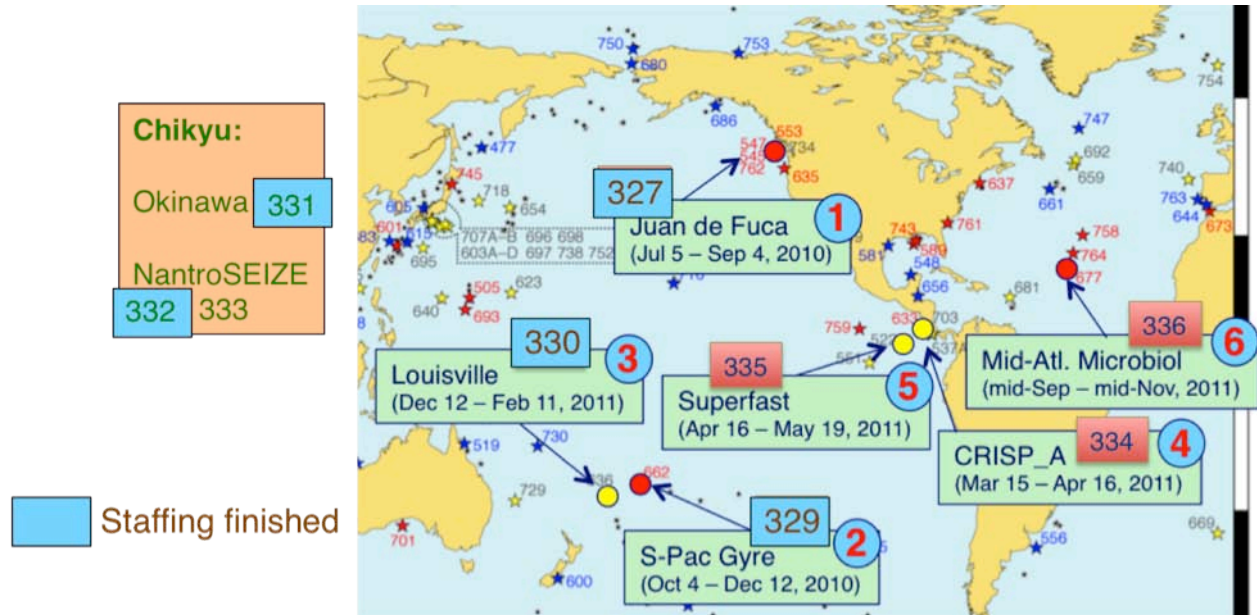
J. Erbacher reported about German activities. There were enough applicants for cruises, however they try to get people involved that are not from the "big" IODP groups (Bremen, Kiel). They invented a program to support young scientists/students to apply: if they will be invited they will receive 3 month salary. Germany is about to merge the programs, IODP and ICDP, so they are currently planning a core repository in Potsdam (lake rocks; hard rock cores will be stored in Berlin Spandau). Next national IODP/ICDP meeting will be in March in Muenster. The German research drilling consortium has a summer school, about 60-70 applications. The German Science Foundation (DFG) is optimistic to keep the funding. The national office is working on the statistics.

J. McKenzie summarized about Swiss activities. They will fund the program, but they fear because there happens a major shift in the Swiss science community where senior scientists have been very active, but they are replaced by young scientists, which are not interested in ocean drilling. There is huge interest in ICDP, but a very small community in IODP. They need to be very active in order to guarantee the funding post 2013.

4. Nominations and Staffing

4.1.1 Updates in expedition staffing

R. Stein gave a report about updates on expedition staffing of following expeditions: Juan de Fuca (327), CORK (328), South Pacific Gyre (329), Louisville (330), Deep Hot Biosphere (331), Riserless Observatory (332), Inputs Coring & Heat Flow (333), CRISP (334), Superfast (335), Mid-Atlantic Microbiology (336).



NantroSEIZE Expedition 332					
				C	Expertise
	Kopf	Achim		D	Co-chief
	Hammerschmidt	Sebatian		D	Sedimentologist
					Professor
					grad student
NantroSEIZE Expedition 333					
				C	Expertise
Priority list					
	Henry	Pierre		F	Co-chief (invited and accepted)
	Alves	Tiago		UK	Sedimentology, seismic interpretation, physical properties
	Laberg	Jan Sverre		N	Sedimentologist
	Strasser	Michael		D	Physical Properties Specialist Sedimentologist Stratigraphic Correlator
	Marcaillou	Boris		F	Geophysicist Physical Properties Specialist
	Fehr	Annick		D	Geophysicist Logging Scientist Physical Properties Specialist
	Serié	Chritsophe		UK	Geophysicist Petroleum Geologist Sedimentologist Stratigraphic Correlator
	Garçon	Marion		F	Inorganic Geochemist
List of alternates					
	Casas	David		ES	Physical Properties Specialist Sedimentologist
	Reusch	Anna		D	Physical Properties Specialist Sedimentologist
	Bartsch	Carolin		D	
					Post-Doctoral Researcher
					MSc student
					MSc student
Short-term call					
	Heim	Sabine		D	Organic Geochemists
	Bauersachs	Thorsten		D	Organic Geochemists
	Sachse	Victoria		D	Organic Geochemists
	Badewien	Tanja		D	Organic Geochemists
					Postdoc
					Assistant Professor
					PhD student
					PhD student

Okinawa Deep Hot Biosphere (Expedition 331)					
	Candidate		C	Expertise	
Priority list					
	Bowden	Stephen	UK	Organic Geochemist Petroleum Geologist Sedimentologist	Lecturer Organic Geochemistry
	Breuker	Anja	D	Microbiologist	PhDstudent
	Eckert	Sebastian	D	Inorganic Geochemist	PhDstudent
	Guilbaud	Romain	UK	Inorganic Geochemist	PhDstudent
	Hollis	Steven Philip	UK	Petrology/Geochemistry	PhDstudent
	Birrien	Jean Louis	F	Microbiology	Engineer
Alternates					
	Southam	Gordon	CND	Paleontologist (Nannofossil) Microbiologist Paleontologist (Phytoplankton), Inorganic Geochemist Organic Geochemist	Professor
	Sauer	Patrick	D	Microbiologist	PhDstudent
	Pansegrau	Moritz	D	Inorganic Geochemist Sedimentologist	PhDstudent
	Cruz	Ines	P	Petrology	PhDstudent

CRISP (Expedition 334)					
	Candidate		C	Expertise	
First-Priority list					
	Vanucci	Paola	I	Co-chief	
	Barckhausen	Udo	D	Geophysicist Logging Scientist Physical Properties Specialist Downhole Measurements	
	Kutterolf	Steffen	D	Inorganic Geochemist Petrologist Sedimentologist Stratigraphic Correlator	
	Marcaillou	Boris	F	Geophysicist Physical Properties Specialist	
	Conin	Marianne	F	Geophysicist Hydrologist Logging Scientist Physical Properties Specialist Structural Geologist Downhole Measurements	
	Heuret	Arnaud	F	Geophysicist Structural Geologist	
	McCay	Gillian	UK		
	Behnsen	Julia	UK	Petrology, Geochemistry, Structural geology, Physical Properties	
Alternates					
	Meschede	Martin	D	Sedimentologist Structural Geologist	
	Pape	Thomas	D	Organic Geochemist Sedimentologist	
	Pinero	Elena	D	Inorganic Geochemist	
	Stipp	Michael	D	Petrologist Metamorphic Petrologist Structural Geologist	
	Aden-Arroyo	Ivonne	D		
	Völker	David	D	Geophysicist Physical Properties Specialist Sedimentologist	
	Albarracín	Silvia	ES	Geophysicist Sedimentologist Stratigraphic Correlator Structural Geologist	
Sort-term call					
	Nuzzo	Marianne	P		
	Sachse	Victoria	D		

Superfast (Expedition 335)					
	Candidate		C	Expertise	
First-priority list					
	Ildefonse	Benoit	F	Co-chief	
	Teagle	Damon	UK	Co-chief	
	Banerjee	Neil	CND	Inorganic Geochemist Petrologist Metamorphic Petrologist	Prof
	Godard	Marguerite	F	Inorganic Geochemist Petrologist	Researcher
	Koepke	Juergen	D	Petrologist	Prof
	MacLeod	Christopher	UK	Structural Geologist Downhole Measurements	Senior Lecturer
	France	Lyderic	F	Petrologist Metamorphic Petrologist Structural Geologist	assistant prof
	Lissenberg	Johan	UK	Petrologist	Proleptic lecturer
Alternates					
	Williams	Helen	UK	Inorganic Geochemist	NERC Advanced Fellow
	Morris	Anthony	UK		Reader in Geophysics
	Strauss	Harald	D	Inorganic Geochemist	Prof
	Harris	Michelle	UK	Inorganic Geochemist Petrologist Metamorphic Petrologist	grad student
	McCaig	Andrew	UK		Lecturer, Deputy Head
	Salisbury	Matthew	CND		Adjunct Professor
	Abily	Benedicte	F	Petrologist Structural Geologist	PhD student
	Pressling	Nicola	UK	Geophysicist Paleomagnetist Structural Geologist	NERC Research Fellow
	Morgan	Sally	UK	Logging Scientist Metamorphic Petrologist Physical Prop	Research Associate
	von der Har	Anette	D	petrologist/geochemist	Assistant professor
	Faak	Kathrin	D	Inorganic Geochemist Petrologist	PhD student
	Hoefig	Tobias	D	Petrologist Metamorphic Petrologist	PhD student
	Violay	Marie	F	Logging Scientist Physical Properties Specialist	PhD student
	Debret	Baptiste	F		Master, start PhD in Oct

Quotas

R. Stein presented the new berth quotas.

JdF	CasCo	SPG	Louisv	Okina	NanTr	NanTr	CRISP	Super	MAM					
Exp 327	Exp 328	Exp 329	Exp 330	Exp 331	Exp 332	Exp 333	Exp 334	Exp 335	Exp 336	Total berths so far	Member	NEW Financial Contribn	NEW Entitlement	ALLOC
3		1	2	1		3	3	4	3	64	France	25,4%	69,3	-5,3
0		3	2	2	2	2	2	1	1	71	Germany	26,0%	71,1	-0,1
2		2	3	3		2	2	4	1	67	UK	25,4%	69,3	-2,3
5	0	6	7	6	2	7	7	9	5	202	Sum	76,8%	209,7	-7,7
										0	Austria	0,5%	1,4	-1,4
										1	Belgium	0,2%	0,4	0,6
			1	1				1		9	Canada	1,5%	4,1	4,9
1		1							1	7	Denmark	2,3%	6,3	0,7
										2	Finland	0,4%	1,1	0,9
										1	Iceland	0,1%	0,4	0,6
		1								1	Ireland	0,7%	1,9	-0,9
							1			9	Italy	1,3%	3,5	5,5
										6	The Netherlar	1,8%	5,0	1,0
		1				1			1	9	Norway	5,0%	13,7	-4,7
										2	Portugal	0,6%	1,5	0,5
										9	Spain	2,8%	7,7	1,3
										7	Sweden	3,4%	9,4	-2,4
										8	Switzerland	2,5%	6,9	1,1
1	0	3	1	1	0	1	1	1	3	71	Sum	23,2%	63,3	7,7
6	0	9	8	7	2	8	8	10	8	273	Total ECORD		273	0,0

C. Mével supported that it is good to already start working on the “quota problem”; it is obvious how fast quota numbers could change. R. Stein underlined that it is important to explain certain situations, e.g. why Italy has the strong positive quota.

C. Mével wondered if for some expeditions ECORD is allocated to have more berths. R. Stein explained that on expedition 332 there is a reduced science party. Since there are often more than 8 berth, C. Mével asked if this is addressed to the operator. R. Stein explained that this is often associated with the need for a certain expertise. But the IOs/PMOs try to balance this. But R. Stein added that at the end of the program ECORD will have probably more berth than expected.

C. Mével asked if there is any pressure from associate members, like China or India. R. Stein explained that ESSAC just receives final staffing lists and does not get any information about this. D. Teagle added the example of Superfast where associate members did not send enough options; the Chinese had not the right option, ANZIC sent two nominations, one was taken. N. Banerjee underlined that there will always be the problem of need for a certain expertise, and at the end of the program there will be an unbalance. But science should still be the key driver. C. Mével supported this, but she reminded that a minus in quota of about 5 has to be explained, plus/minus 2 is ok.

J. McKenzie complained that it is also of importance who is sailing - if only students and post-docs are sailing, the chance is very high that they are working in other countries when they have academic positions afterwards.

4.1.2 Nomination of co-chiefs

R. Stein showed updated lists of nominations of co-chiefs.

Co-chief nominations

644 Mediterranean Outflow

Abrantes, Fátima ECORD
Hernández-Molina, Francisco Javier ECORD
Kissel, Catharine ECORD
Stow, Dorrik ECORD
Ito, Makoto JAPAN

686 Southern Alaska Margin

Clift, Peter ECORD
Ikehara, Ken JAPAN
Sakaguchi, Arito JAPAN
Jaeger, John USA
Gullick, Sean USA

681 Lesser Antilles Volcanic Landslide

Dadd, Kelsie ANZIC
Sparks, Steve ECORD
Le Friant, Anne ECORD
Boudon, Georges ECORD
Duplus, Christine ECORD
Palmer, Martin ECORD
Talling, Peter ECORD
Yokose, Hisayoshi JAPAN
Ishizuka, Osamau JAPAN
Voigt, Barry USA
Carey, Steve USA

> **ESSAC Action Item 1010-04:** ESSAC Office will send out a request for nomination for co-chiefs for expedition 338 - NanTro SEIZE 2/2.

4.2 SAS panel nominations

R. Stein presented an overview about SAS panel nominations.

Science Advisory Structure Executive Committee (SASEC)

Jan de Leeuw	Netherlands	Jan 10 - Jun 11
Damon Teagle	UK	Jun 10 - Jan 12

Alternates

Benoît Ildefonse	France
Chris MacLeod	UK
Helmut Weissert	Switzerland
Hans Brumsack	Germany
Rachel James	UK

Last SASEC meeting: Jun 2011

Science Planning Committee (SPC)

Gilbert Camoin France Mar 07 - Aug 10 (Mar 11: Javier Escartin)
Hugh Jenkyns UK Mar 08 - Aug 10 (Mar 11: Heiko Pälke)
Gretchen Früh-Green Switzerland Aug 08 - Mar 11 (may continue one more meeting)
Ruediger Stein Germany Mar 10 - Aug 12

Alternates

Kathy Gillis Canada
Julian Pearce UK

Last SPC meeting: Mar (Aug?) 2011

Science Steering and Evaluation Panel (SSEP)

Henk Brinkhuis Netherlands May 08 - May 12 (co-chair at Nov 09, ext. to May 12)
John McLennan UK Nov 09 - May 12
Jürgen Koepke Germany May 10 - (Nov 12)
Serge Berné France Nov 08 - May 11
Tim Ferdelman Germany Nov 10 - (May 13)
Julie Carlut France May 09 - Nov 11
Daniele Brunelli Italy Nov 08 - May 11
Dave Hodell UK May 10 - (Nov 12)

Alternates

Tahar Aifa France Veronica Heuer Germany
Jon Blundy UK Andreas Mackensen Germany
Antonio Cattaneo France Marcel Regelous Germany
Peter Clift UK Maryline Moulin Portugal
Elisabetta Erba Italy Laurent Toffin France
Javier Escartin France Daniel Aslanian France
Marc-A. Gutscher France
Cedric John UK
Nalan Koc Norway
Philippe Martinez France
Luis M. Pinheiro Portugal
Silvia Spezzaferri Switzerland
Uli Wortman Canada

Scientific Technology Panel (STP)

Georges Gorin Switzerland Jul 07 - Jul 10 (2)
Sebastian Krastel Germany Jul 08 - Feb 11
Marc Reichow UK Feb 09 - Jul 11
Douglas Schmitt Canada Feb 08 - Jul 12 (1)

Alternates

Cedric John UK
Aarno Kotilainen Finland
Holger Kuhlmann Germany
Silvia Spezzaferri Switzerland

Last STP meeting: Feb/Mar 2011

Site Survey Panel (SSP)

Gilles Lericolais	France	Feb 07 - Jul 12
Gabi Uenzelmann	Germany	Feb 10 - Jul 12
Neil Mitchell	UK	Feb 08 - Jul 10 (Feb 11: Peter Clift)
Roger Urgeles	Spain	Feb 07 - Jul 12

Alternates

Daniel Ariztegui Switzerland
Luca Gasperini Italy
David C. Mosher Canada
Michele Rebesco Italy

Last SSP meeting: Feb 2011

Environment Protection and Safety Panel (EPSP)

Martin Hovland	Norway	Sep 10 -
Philippe Lapointe	France	Dec 06 -
Bramley Murton	UK	Jun 04 -
Dieter Strack	Germany	Dec 03 -

Alternates

Jochen Erbacher Germany
Jean Mascle France

Last meeting: EPSP will continue

Engineering Development Panel (EDP)

Mai-Lingh	France	Jan 10 - Jan 12
Maria Ask	Sweden	Jul 07- Jan 12 (vice-chair since Jan 10)
Lothar Wohlgemuth	Germany	Jan 07 - Jan 12
John Thorogood	UK	Jul 06 - Jul 10 (Jan 11: Neal Whatson)

Alternates

Daniel Ask Sweden
Allister Skinner UK

Last EDP meeting: Jan 2011

ESSAC Consensus 1010-03: ESSAC approves the following advices to be sent to IWG+ regarding the new SAS structure:

- General composition of the Evaluation Panel (PEP) and the Implementation Panel (SEA) panels should be a mixture of old and new members.
- Chairs in the evaluation and implementation panels will be selected from open calls independent of nationality and financial contribution.
- No members of the present panels will be automatically placed in the new panels, but they will be encouraged to apply to the new calls.
- Concerning the rules of Conflict of Interest (CoI), following the present SSEP regulations, i.e., a meeting's participant should only leave the room when a proposal is evaluated of which he/she is (co)proponent. This person, however, will not be excluded from the entire meeting as it is the case for the present SPC.

- The absolute need of a Site-Survey Panel (SSP) has been stated. The meetings of Evaluation Panel and SSP should co-occur to speed-up the evaluation process. This could imply to merge both panels into one larger evaluation panel and subdivide them into four sub-panels related to the four main themes and one separate sub-panel for the site survey related aspects of all proposals.

5. Breakout sessions

The three ESSAC subcommittees met to discuss the topics on the agenda. The results are given in the respective items.

6. ECORD Highlights

6.1 ECORD Highlights (1): Superfast Spreading Rate Crust Program

D. Teagel presented a report about the Superfast Program.

6.2 ECORD Highlights (2): Climate and Societies

G. Haug presented a report about Climate and Societies.

7. Education and outreach

7.1 ECORD Summer Schools (Reports)

7.1.1 Urbino Summer School in Paleoclimatology, Urbino, July 2010

L. Lourens gave a report about the USSP 2010 and its statistics about participants: 52 participants from 13 different countries.

R. James asked if there is a questionnaire? L. Lourens referred to Simone Galeotti, since there is lots of feedback from students.

7.1.2 ECORD/IODP Canada Summer School on Ocean and climate changes in polar and subpolar environments, June/July 2010

N. Banerjee gave a report about the Canadian Summer School 2010.

7.1.3 ECORD Summer School on Dynamics of Past Climate Changes, Bremen, September 2010

J. Lezius gave a report of the ECORD Summer School in Bremen 2010, the report was provided by D. Hebbeln. A total of 28 graduate students and post-docs from 8 ECORD countries participated. Lectures were focused on (1) Climate response to orbital forcing

(2) Millennial-scale climate variability (3) Linkages between climate and tectonics (4) Sea-level changes and (6) Paleoproductivity, carbon burial, high CO₂ worlds. The program consisted of lectures about IODP with an exercise in proposal writing, the "virtual ship" experience, a fieldtrip and oral presentations by the participants.

> **ESSAC Action Item 1010-05:** ESSAC Office will create a form for a standardized questionnaire about Summer Schools.

> **ESSAC Action Item 1010-06:** ESSAC Office will ask organizers of ECORD Summer Schools for statistical information about their Summer Schools.

7.2 ECORD Grants and Scholarships

J. Lezius gave a summary of ECORD Scholarship and ECORD Grants awardees 2010, determined during the last ESSAC meeting #14 in Tromsø.

ECORD Scholarship awardees 2010

Bonnet, Sophie
Barbarin, Nicolas
Bazhenova, Evgenia
Bell, David
Cogez, Antoine
Galaasen, Eirik Vinje
Gehrmann, Romina Antonia Sarah
Ivanovic, Ruza F.
Jansson, Ida Maria
O Dea, Sarah
Riethdorf, Jan-Rainer
Setoyama, Eiichi
Sghibartz, Cristina
Stepanek, Christian
Stewart, Joseph Alan

ECORD Scholarship awardees 2010

Haberzettl, Torsten
Hennisen, Jan
Naafs, David
Pasini, Valerio
Stroynowski, Zuzanna Natalia

ESSAC Consensus 1010-03: ESSAC approves the standardized form for CVs for ECORD Scholarships.
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ESSAC Consensus 1010-04: ESSAC approves the change in duration to create the report about ECORD Research Grants by awardees from 15 to 12 month.

A discussion point of the Education & Outreach Subcommittee was the question, if there should be a general agreement about ECORD Summer Schools for the future: a) continue as in the past b) always have only 2 ECORD Summer Schools b) Bremen Summer School as "fixed" ECORD Summer School, second one to be chosen out of submitted proposals of possible summer schools. After detailed discussions ESSAC decided:*

ESSAC Consensus 1010-05: ESSAC approves that procedure of election of ECORD Summer Schools will continue as in the past.

7.3 Distinguished Lecturer Programme 2010

J. Lezius updated about the DLP 2010.

Lecturers 2010/2012

- In the "Deep Biosphere and Subseafloor Ocean" theme:
Kai-Uwe Hinrichs, MARUM, University of Bremen, D
Benthic archaea - the unseen majority with importance to the global carbon cycle revealed by IODP drilling
- In the "Solid Earth Cycles and Geodynamic" theme:

Dominique Weis, PCIGR, University of British Columbia, CDN
What do we know about mantle plumes and what more can we learn by IODP drilling?

In the "Environmental Change, Processes and Effects" theme:

Helmut Weissert, ETH Zurich, CH

Carbon cycle, oceans and climate in the Cretaceous: lessons from Ocean Drilling (DSDP to IODP) and from records on continents.

Updated information about the DLP 2010/2012 is given here:
<http://www.essac.ecord.org/index.php?mod=education&page=dlp>

7.4 School of Rock 2010 & Expedition 327 outreach activities

J. Lezius presented a report about current expedition outreach activities with ECORD participation: the School of Rock 2010 and teachers sailed on expedition 327.

> **ESSAC Action Item 1010-07:** ESSAC Office will contact Ocean Leadership to ask for requests they have to participants of School of Rock.

> **ESSAC Action Item 1010-08:** ESSAC Office will contact Lesie Peart to ask about guidelines teachers of School of Rock are provided with before the cruise. If not available, ESSAC Office will create a draft form for guidelines for ECORD teachers on *JOIDES Resolution*.

> **ESSAC Action Item 1010-09:** ESSAC Office will contact Jean-Luc Berengue if he is willing to organize and keep contact between all ECORD "rockers"/ former and future participants of School of Rock.

ESSAC Consensus 1010-06: ESSAC approves that financial support for teachers to sail on *JOIDES Resolution* will be decided case-by-case. ESSAC chair will ask the ECORD Council if it would be possible to use a small amount of budget to support teachers if necessary.

8. Reports of ESSAC subcommittees and discussion

The results are given in the respective items.

9. Workshops, communication and Vision

9.1 ESF Magellan Programme: Present and Future

J. Erbacher gave a report about the Magellan Programme.

After the call for proposals in May 2010, the Magellan Workshop Geological carbon capture & storage in mafic and ultramafic rocks: Role of oceanic and continental scientific drilling taking place in January 2011 in Muscat (Sultanate of Oman), had been chosen to be funded. Recently, a call for ESF Magellan proposals with a deadline of November 15, 2010, had been published. Proposals for strategic workshops dealing with the integration of scientific marine and continental coring, are most welcome. Two to three workshops might be funded within this final phase of the running ESF Magellan Programme, and these workshops should be carried out before July 31, 2011.

J. Erbacher mainly focused on the future of the Magellan Programme. He reported about the outcomes of the Magellan meeting in Burkheim, Germany, in August 2010. Besides representatives of the marine community, also representatives of ICDP and IMAGES had been invited. Aim of the meeting was to discuss a new programme for funding workshops related to the planning of scientific (marine and continental) drilling proposals (i.e., for ECORD/IODP, IMAGES, and ICDP campaigns).

Attendees agreed to propose a new programme deal for scientific drilling/coring in general. It was decided that the ESF-RNO (Research and Network Programme) would be the best possibility to submit the proposal. A new steering group had been created to be responsible to write and submit a proposal: Luc Lourens, Marit Seidenkrantz and Ales Spicak. A consensus discussion resulted in the new name “Magellan Plus”.

The current call for proposals in the ESF-RNP has been postponed several times due to the uncertainty of the current future of ESF. Thus, ESF suggested to apply for a COST programme of the EU (EU money). The Magellan Plus proposal has been submitted (attached to the Agenda Book).

After discussions, ESSAC is very positive about the very successful ESF Magellan Programme and its outcomes. R. Stein mentioned, as an example, that as direct outcome of the ESF co-funded Arctic Drilling Workshop held in 2008 in Bremerhaven, six new pre-proposals were submitted to IODP-MI. In summary, ESSAC strongly supports the development of such a new (COST- or ESF-related) programme “Magellan Plus”.

9.2 Joint IODP/ICDP session at the EGU 2011 in Vienna

R. Stein gave a short outlook at the joint IODP/ICDP session at the EGU 2011 in Vienna.

Major achievements and perspectives in scientific ocean and continental drilling

Convener: Ruediger Stein

Co-Conveners: Ulrich Harms, Ursula Roehl

Since 1968, scientific ocean drilling is recovering unique global geological records preserved in marine sedimentary deposits and basement rocks. These records obtained within the Deep Sea Drilling Project (DSDP), the Ocean Drilling Program (ODP), and the Integrated Ocean Drilling Program (IODP) have been key for major advances in our understanding of our planet, including palaeoclimate, palaeoceanography, deep biosphere and crustal dynamics and tectonic processes. Global continental efforts are coordinated within the International Continental Scientific Drilling Program (ICDP). Funding and support for research projects is provided to tackle challenging geoscientific themes of socio-economic relevance such as paleoclimate, earthquakes and volcanism, or unconventional energy resources.

The principal goals of this session are to summarize and review major scientific achievements in ocean and continental drilling with special emphasis on the European contributions to IODP and ICDP. Furthermore, perspectives and visions for drilling projects using a multi-platform approach will be tackled.

(Web-Info: <http://meetingorganizer.copernicus.org/EGU2011/session/6436>)

11. Next meetings

Short presentations about possible locations for the next ESSAC Meetings were given by M-S. Seidenkrantz, announcing Denmark (Aarhus or Copenhagen; May 2012) and X. Monteys, representing Dublin, Ireland (October 2011). J. Lezius gave an outlook about the next ESSAC meeting #16 which will be held in Leuven, Belgium, May 2011; the presentation was provided by A. Foubert.

<p>ESSAC Consensus 1010-07: Location of ESSAC Meeting #16 is Leuven, Belgium; it will be held May 11-13, 2011. Location of ESSAC Meeting #17 will be Dublin, Ireland; location of ESSAC Meeting #18 will be Aarhus or Copenhagen, Denmark.</p>

12. Any Other Business

ESSAC Consensus **1010-08**: ESSAC thanks Judith McKenzie for hosting the 15th ESSAC Meeting and for her dedicated and highly effective service within ESSAC from 2003-2010.