

## **AGENDA BOOK**

### **ESSAC Meeting # 2**

May 25-28, 2014

Keflavik, Iceland



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## **ESSAC Meeting # 2**

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### **AGENDA**

#### **Sunday 25 May**

Field trip - Reykjanes Peninsula

#### **Monday 26 May 2014, 9:00 – 17:30**

- 1. Introduction** (30 minutes)
  - 1.1 Call to order, introductions (G. Früh-Green)
  - 1.2 Welcome and meeting logistics (B. Brandsdóttir)
  - 1.3 Discussion and approval of the (1) agenda and (2) Haifa 1<sup>st</sup> ESSAC meeting minutes (G. Früh-Green)
  - 1.4 Review of 1<sup>st</sup> ESSAC meeting action items (J. Gutiérrez-Pastor)
  
- 2. IODP – Platform Operator News** (60 minutes)
  - 2.1 IODP Update (G. Früh-Green)
  - 2.2 EMA, ECORD Council, ECORD Vision Task Force (VTF) (G. Früh-Green)
  - 2.3 JR Facility Board Report (D. Weis)
  - 2.4 ECORD Facility Board Report (D. Weis)

#### ***Coffee Break: 10:30 – 11:00***

- 3. ESO and ESSAC News** (90 minutes)
  - 3.1 ESO (A. Stevenson)
  - 3.2 ECORD Education & Outreach Task Force update (P. Maruéjol)
    - 3.2.1 Discussion: ECORD publications (P. Maruéjol)
  - 3.3 ESSAC Office news (J. Gutiérrez-Pastor)
  - 3.4 ESSAC representatives and National Office reports (ESSAC Delegates)

#### ***Lunch 12:30 – 13:30***

- 4. Expeditions, Nominations and Staffing (1)** (90 minutes)
  - 4.1 Staffing (G. Früh-Green)
    - 4.1.4 Updates on expedition staffing and applications
    - 4.1.2 Ranking procedures and statistics
    - 4.1.3 Discussion – Quotas, CPPs, in-kind contributions
    - 4.1.4 Discussion of ranking feedback among ESSAC Delegates

- 4.2 SEP update (G. Früh-Green)

***Coffee Break: 15:00 - 15:30***

**5. Breakout Sessions**

- 5.1 Introductions (G. Früh-Green)  
5.2 Breakout sessions: ESSAC Nominations and Staffing (lead: A. Völker)/  
Education and Outreach Subcommittees (lead: N. Waldmann)

**16:30**

6. **ECORD highlights: Páll Einarsson** (University of Iceland, Reykjavík) - An overview of the geology and volcanism of Iceland

***Joint dinner of the ESSAC Delegates and Guests***

**Tuesday 27 May 2014, 9:00 - 16:30**

7. **ECORD Highlights: Christian France Lanord** (CNRS, Nancy) - Himalaya from mountain to ocean
8. **Education and outreach**
- 8.1 ECORD Summer Schools 2014 update (J. Gutiérrez-Pastor)  
8.1.1 Urbino Summer School in Paleoclimatology July 2014  
8.1.2 ECORD Summer School on Subseafloor Biosphere, MARUM, Bremen, September-October 2014
- 8.2 ECORD Summer Schools 2015 update & selection (J. Gutiérrez-Pastor)
- 8.3 ECORD Grants and Summer School Scholarships 2013-2014 (J. Gutiérrez-Pastor)  
8.3.1 Discussion of award criteria and awards to non-ECORD applicants
- 8.4 E&O Subcommittee report, discussion and future actions (N. Waldmann)
- 8.5 Distinguished Lecturer Programme - selection of new lecturers (G. Früh-Green)
- 8.6 Teachers at Sea (J. Gutiérrez-Pastor)
- 8.7 Changes to the ECORD/ESSAC websites (J. Gutiérrez-Pastor)
9. **Expeditions, Nominations and Staffing (2)**
- 9.1 Updates on advisory panel members (G. Früh-Green)  
9.1.1 New calls and alternates
- 9.2 Nomination and Staffing Subcommittee report, discussion and future actions (A. Völker)
- 9.3 Discussion of ESSAC vice-chair 2015-2016/ future chair 2016-2018
10. **Workshop and Conference Reports**
- 10.1 Magellan Plus Programme updates (M-S. Seidenkrantz)  
10.1.1 Possible future workshops related to Horizon 2020 (B. Brandsdóttir)
- 10.2 Reports on past and future workshops and conferences (P. Maruéjol)  
10.2.1 Planned outreach activities future conferences (P. Maruéjol)

10.3 Joint IODP/ICDP session at the EGU 2014 in Vienna (G. Früh-Green)

10.3.1 Plans for EGU 2015?

**11. Review of consensus, motions and actions** (G. Früh-Green)

**12. Next meetings**

12.1 ESSAC #3-ECORD Joint Meeting, Tuesday October 7- Friday October 10, 2014, Zürich (Fieldtrip: Wednesday, 8 Oct)

12.2 ESSAC #4, May, 2015, *Who is willing to host - UK (Bridget Wade as host)?*

**13. Any other business** (G. Früh-Green)

**Wednesday 28 May 2014**

Field trip #2 - Þingvellir National Park and Geysir area

## List of Participants

### ESSAC Office

**Gretchen Früh-Green (Chair)**

ESSAC Delegate Switzerland

**Julia Gutiérrez Pastor**

ESSAC Science Coordinator

### ESSAC Representatives

**Andrea Argnani**

ESSAC Delegate Italy

**Bryndís Brandsdóttir** (meeting host)

ESSAC Delegate Iceland

**André Bornemann**

IODP-Germany Coordination

**Georges Ceulener**

ESSAC Delegate France

**Carlota Escutia**

ESSAC Vice-Chair

**David Hardy**

ESSAC Alternate Ireland

**Jorijntje Henderiks**

ESSAC Alternate Sweden

**Kikki F. Kleiven**

ESSAC Delegate Norway

**Aarno Kotilainen**

ESSAC Delegate Finland

**Stefan Schouten**

ESSAC Alternate Netherlands

**Marit-Solveig Seidenkrantz**

ESSAC Delegate Denmark

**Szymon Uscinowicz**

ESSAC Delegate Poland

**Antje Voelker**

ESSAC Delegate Portugal

**Bridget Wade**

ESSAC Delegate UK

**Nicolas Waldmann**

ESSAC Delegate Israel

**Dominique Weis**

ESSAC Delegate Canada

### Observers/Guests

**Christian France-Lanord**

Director of the CRPG, Nancy, France

**Patricia Maruéjol**

EMA

**Alan Stevenson**

ESO

**Diane Hanano**

Canadian consortium for ocean drilling

**Páll Einarsson**

University of Iceland, Reykjavik

### Apologies

**Gilbert Camoin**

EMA

**Milena Borissova**

EMA

**Jochen Erbacher**

ESF Magellan Workshops

**Lucas Lourens**

ESSAC Delegate Netherlands

**Xavier Monteys**

ESSAC Delegate Ireland

**Werner Piller**

ESSAC Delegate Austria

**Ian Snowball**

ESSAC Delegate Sweden

**Rüdiger Stein**

ESSAC Delegate Germany

**David Van Rooij**

ESSAC Delegate Belgium

## Logistics 2<sup>nd</sup> ESSAC meeting

**ESSAC Meeting at Hotel Keflavík:** Monday and Tuesday, May 26 and 27, 2014  
**Field Trip:** Sunday, May 25, 2014

### Hotel

Hotel Keflavik, which also has a conference room: <http://www.hotelkeflavik.is>  
Tel: +354 420 7000, Fax: +354 420 7002  
Hotel room single approx. 83 euros/day including breakfast  
Hotel room double approx. 51 euros/day per person including breakfast

### Flights/Airport:

Keflavik airport <http://www.kefairport.is/english/>  
The Keflavik Hotel provides an airport shuttle free of charge to/from the airport and pickup can be requested when booking the hotel:  
<http://www.hotelkeflavik.is/services>  
Also the Hotel suggests paying the fare from the airport to the hotel and later they pay the return fare.  
There are also taxis outside the terminal.  
The airport is 10 min drive from the hotel.



**Monday dinner:** At the Hotel

**Tuesday dinner:** Unconfirmed restaurant in Keflavik



### **First Field trip, May 25**

Bryndís Brandsdóttir will guide the field trip together with Karl Grönvold, who is an isotope petrologist at the Institute of Earth Sciences, Univ. of Iceland.

Bus: from 9:30 to 17:00.

It is planned to stop at the tip of the Reykjanes Peninsula. We will be looking at early postglacial sediments, pillow lavas, eruptive fissures, hyaloclastites, tephra layers (Vedde), tectonics and geothermal activity.

At the end of the day, we will visit the Blue Lagoon for an optional bath and dinner.

The bus will pick us up from there at 22h.

**A second Field Trip on Wednesday, May 28:** will be arranged for a small group to visit the Þingvellir National Park and Geysir area.

ESSAC delegates can also rent a car together and go sightseeing by themselves. Other information can be found under:

<http://www.visitreykjavik.is>

<http://www.visiticeland.com>

<http://www.adventures.is>

<http://www.icelandexcursions.is/default.aspx>

<http://www.extremeiceland.is/en/individuals>

### **Additional information:**

The government has submitted a draft bill banning Icelandair pilots from striking over the next few weeks after negotiations between the airline and the Union of Icelandic Pilots on a new collective bargaining agreement collapsed yesterday. They had planned a series of strikes.

<http://icelandreview.com/>

## LIST OF ACRONYMS

<b>ACEX</b>	Arctic Coring Expedition (Expedition 302)
<b>APLACON</b>	Alternative Platform Conference (Lisbon, May 2001)
<b>AF</b>	Academy of Finland
<b>BCR</b>	Bremen Core Repository
<b>BGS</b>	British Geological Survey (UK)
<b>BoG</b>	IODP-MI Board of Governors
<b>CDC</b>	Conceptual Design Committee (new riser vessel)
<b>CDEX</b>	Center for Deep Earth EXploration (Japan)
<b>CoNISMa</b>	Consorzio Nazionale Interuniversitario per le Scienze del Mare (Italy)
<b>CDP</b>	Complex Drilling Project
<b>CNR</b>	Consiglio Nazionale delle Ricerche (Italy)
<b>CNRS</b>	Centre National de la Recherche Scientifique (France)
<b>DASTI</b>	Danish Agency for Science, Technology and Innovation
<b>DFG</b>	Deutsche Forschungsgemeinschaft (German Research Foundation)
<b>DSDP</b>	Deep Sea Drilling Project
<b>ECORD FB</b>	Ecord Facility Board
<b>EC</b>	European Commission
<b>ECORD</b>	European Consortium for Ocean Research Drilling
<b>EDP</b>	Engineering Development Panel
<b>EPC</b>	European Petrophysics Consortium
<b>EMA</b>	ECORD Managing Agency
<b>ERA-Net</b>	European Research Area Network
<b>ESF</b>	European Science Foundation
<b>EPSP</b>	Environmental Protection & Safety Panel
<b>ESO</b>	ECORD Science Operator
<b>ESSAC</b>	ECORD Science Support and Advisory Committee
<b>FWO-Vlaanderen</b>	Fund for Scientific Research-Flanders (Belgium)
<b>FWF</b>	Austrian Science Fund
<b>GRICES</b>	Gabineta de Relacoes Internacionais da Ciencias e do Ensino Superior (Portugal)
<b>GSI</b>	The Geological Survey of Ireland
<b>ICDP</b>	International Continental Scientific Drilling Project
<b>IIS-PPG</b>	Industry IODP Science Program Planning Group
<b>ILP</b>	Industry Liaison Panel (ECORD)
<b>INGV</b>	Istituto Nazionale di Geofisica e Vulcanologia (Italy)
<b>INSU</b>	Institut National des Sciences de l'Univers (France)
<b>IOs</b>	Implementing Organisations
<b>IODP</b>	International Ocean Discovery Program
<b>IODP-MI</b>	IODP Management International, Inc.
<b>ISP</b>	Initial Science Plan for the IODP
<b>JAMSTEC</b>	JAPAN Marine Science & TEchnology Center
<b>J-DESC</b>	Japanese Earth Drilling Science Consortium
<b>JEODI</b>	Joint European Ocean Drilling Initiative

<b>JOI</b>	<b>Joint Oceanographic Institutions</b>
<b>JR</b>	<b>JOIDES Resolution</b>
<b>JR FB</b>	<b>JOIES Resolution facility Boards</b>
<b>LDEO</b>	<b>Lamont Doherty Earth Observatory</b>
<b>MICINN</b>	<b>Ministerio de Ciencia e Innovación</b>
<b>MEXT</b>	<b>Ministry of Education, Culture, Sports, Science &amp; Technology (Japan)</b>
<b>MoU</b>	<b>Memorandum of Understanding</b>
<b>MOST</b>	<b>People's Republic of China Ministry Of Science and Technology</b>
<b>MSP</b>	<b>Mission-specific platform</b>
<b>NanTroSEIZE</b>	<b>Nankai Trough SEIsmogenic Zone Experiment</b>
<b>NCMR</b>	<b>National Center for Marine Research (Greece)</b>
<b>NERC</b>	<b>Natural Environment Research Council (UK)</b>
<b>NSF</b>	<b>National Science Foundation (USA)</b>
<b>NWO</b>	<b>Netherlands Organisation for Scientific Research</b>
<b>OD21</b>	<b>Ocean Drilling in the 21st Century (Japan)</b>
<b>ODP</b>	<b>Ocean Drilling Program</b>
<b>OEAW</b>	<b>Austrian Academy of Sciences</b>
<b>OGS</b>	<b>Istituto Nazionale di Oceanograpfiae di Geofisica Sperimentale (Italy)</b>
<b>OTF</b>	<b>Operations Task Force</b>
<b>PEP</b>	<b>Proposal Evaluation Panel</b>
<b>RANNIS</b>	<b>The Icelandic Centre for Research</b>
<b>SAS</b>	<b>Science Advisory Structure</b>
<b>SASEC</b>	<b>Science Advisory Structure Executive Committee</b>
<b>SciMP</b>	<b>Scientific Measurements Panel</b>
<b>SCP</b>	<b>Site Characterization Panel</b>
<b>SEP</b>	<b>Science Evaluation Panel</b>
<b>SIPCOM</b>	<b>Science Implementation and Policy Committee</b>
<b>SNF</b>	<b>Swiss National Science Foundation</b>
<b>SODV</b>	<b>Scientific Ocean Drilling Vessel</b>
<b>TAMU</b>	<b>Texas A &amp; M University</b>
<b>ToR</b>	<b>Terms of Reference</b>
<b>USSAC</b>	<b>United States Science Advisory Committee</b>
<b>USSSP</b>	<b>United States Science Support Program</b>
<b>UVic</b>	<b>University of Victoria (Canada)</b>
<b>VR</b>	<b>Swedish Research Council</b>

## **ESSAC subcommittee procedures**

ESSAC has been structured in three subcommittees (Staffing and Nominations, Education and Outreach, and ad-hoc working group) to increase the efficiency of ESSAC and the involvement of the ESSAC Delegates in ESSAC activities and responsibilities. Subcommittee general tasks and composition are summarized below.

The subcommittees meet electronically to prepare the meetings on general issues and to work on specific issues at the request of the ESSAC Chair. Each subcommittee is coordinated by an ESSAC Delegate, nominated by the ESSAC Chair. The coordinator is in charge of writing a report for the Agenda book and of presenting the activities of the subcommittee at the meetings. A general discussion follows that presentation.

### Staffing and Nominations subcommittee

Members: Lucas Lourens (Coordinator, NL), Gretchen Früh-Green (ESSAC Chair, CH), Carlota Escutia (ESSAC Vice-Chair), Dominique Weis (CDN), Georges Ceuleneer (F), Bridget Wade (UK), Ruediger Stein (D), Aarno Kotilainen (FIN), Antje Voelker (P).

#### General tasks:

- Provide nominations of ECORD representatives (delegates and alternates) on SAS panels, PPGs and DPGs.
- Co-ordinate applications, reviewing all the applications and suggesting nominations of shipboard participants.
- Review quotas of shipboard scientists between participating countries.
- Provide co-chief nominations for IODP Expeditions.

#### Immediate actions:

- Summarize the current ECORD composition of SAS panels, identify future replacements (expertise), and suggest permanent alternates.
- Summarize the current composition of ESSAC delegates, identify future replacements (Delegates and alternates), and make recommendations.
- Summarize the quota balance for ECORD participation to IODP Expeditions.

### Education and Outreach subcommittee

Members: Xavier Monteys (Coordinator, IRE), Gretchen Früh-Green (ESSAC Chair, CH), Nicolas Waldmann (IS), Julia Gutiérrez-Pastor (ESSAC Science Coordinator, CH), Bryndis Brandsdottir (ICE), Andrea Argnani (I), Helga F. Kleiven (N), Werner Piller (A), Marit-Solveig Seidenkrantz (DK), Ian Snowball (S), David Vaan Rooij (B), Szymon Uscinowicz (POL).

General tasks:

- Develop educational opportunities/programs: Teacher's workshops, Summer Schools etc., especially in non-traditional audiences.
- Review Summer School proposals.
- Review applications and suggesting nominations for ECORD scholarships.
- Initiate applications of speakers for the Distinguished Lecturer Series and suggest nominations.
- Provide new ideas regarding new ways to raise funds for E&O activities.
- Advise on public outreach (societal relevance of the IODP science).

Immediate actions:

- Make recommendations for deadlines for submission of Summer School proposals and for applications for ECORD scholarships.
- Make suggestions of new ideas regarding E&O activities (societal relevance of the IODP science), especially in non-traditional audiences.
- Make suggestions regarding new ways to raise funds for E&O activities.
- Monitor ECORD database (e.g. ECORD publications).

AD-HOC Working Group on relevant themes

# 1. Introduction

## *Letter from the Chair*

Dear ESSAC Delegates, ESSAC alternates, and attendees of the 2<sup>nd</sup> ESSAC Meeting in Keflavik, Iceland,

The transition of the ESSAC office from Granada to Zurich went smoothly and Julia Gutiérrez Pastor and I are looking forward to serving the ECORD science community during the initial phase of the new International Ocean Discovery Program “Exploring the Earth under the Sea”.

The start of the new program saw the successful completion of both the offshore and onshore phases of the MSP Baltic Sea Paleoenvironment Expedition 347. Eight sites were cored to understand climate and sea level dynamics and the responses of the deep biosphere to these changes through the last glacial cycle. Thirty-one scientists (17 ECORD Scientists) from twelve countries as well as two ESO Expedition Project Managers participated in the onshore sampling party from 22 January to 20 February 2014 at the Bremen Core Repository. An impressive total of 1622 m of core were measured and described and 32,835 samples were taken.

*JOIDES Resolution* Expeditions in 2014 started off with IODP Expedition 349 South China Sea (a Complementary Project Proposal: CPP), with three ECORD scientists on board, and was completed on March 30. Staffing has been completed for the three Izu Bonin Mariana (IBM) Expeditions: 350 IBM Rear Arc, 351 IBM Arc Origins, and 352 IBM Forearc, which will investigate the genesis and evolution of continental crust in the Izu-Bonin-Mariana convergent margin. The first of these expeditions is underway. For future IODP Expeditions in 2015, ESSAC has completed the selection process for ECORD scientists to participate in the *JOIDES Resolution* Indian Monsoon Rainfall Expedition 353 and the Bengal Fan Expedition 354, and IODP has issued invitation letters. These expeditions will include three ECORD co-chiefs. Urgent calls were issued for biostratigraphers for Exp. 353 and for specialists in planktonic foraminifera biostratigraphy and paleomagnetism for Exp. 354. Calls have also been issued to apply for the Arabian Sea Expedition 355 (CPP; with 4 ECORD scientists) and the Indonesian Throughflow Expedition 356 (deadline for applications on both expeditions was 8 May 2014). The JR Facility Board also selected four expeditions for 2016 and one for 2017. It is important to note that the *JOIDES Resolution* expeditions in 2015 and 2016 are contingent upon availability of funds. More information about the scientific objectives and dates of all expeditions can be found on the IODP web site at <http://www.iodp.org/expeditions/>.

The ECORD Facility Board (EFB) met on March 5<sup>th</sup> and 6<sup>th</sup> in Bremen to decide on the scheduling of MSP expeditions for the next 4 years. The EFB evaluated five proposals that had been forwarded by SEP in 2013 and two new proposals. Taking into consideration projected ECORD budgets, the EFB recommended the scheduling of one high-cost expedition within the next 5 years and has identified the Arctic Ocean as a high priority for an MSP expedition in 2018 (or in 2017 if the budget permits). For 2015 to 2017, only less expensive expeditions (e.g., with seabed rock drills or long-piston coring) can be considered. The EFB has recommended the scheduling of the seabed-rock drilling expedition to the Atlantis Massif in 2015 (IODP Proposal 758) to explore the subsurface biosphere and its link to serpentinization, deformation and alteration in profiles across an oceanic core complex. This will be IODP Expedition 357, with G. Früh-Green and B. Orcutt as co-chiefs, and is tentatively scheduled for the autumn of 2015.

As reported previously, the IODP Advisory Panels have been greatly simplified. The Science Advisory Panel (SEP) reports to the *JOIDES Resolution* Facility Board (JRFB) and is responsible for evaluation of all proposals. SEP currently consists of a subgroup of scientists who evaluate the proposals at all stages in terms of scientific

excellence. A second subgroup reviews the site survey data packages and verifies completeness and adequacy of the site survey data submitted by proponents to the IODP Site Survey Data Bank. ECORD has 8 members (plus Dick Kroon as SEP Chair) in the science subgroup and 5 members in the site survey subgroup. The responsibility of the Environmental Protection and Safety Panel (EPSP) is to review all prospective drilling by the IODP drilling platforms and to advise on safety requirements and appropriate technology needed to meet these requirements. ESSAC has recently selected Serge Berné (F) as a new member on SEP (site survey subgroup) and Dave Long (UK) for EPSP to replace members rotating off these panels.

The ECORD/ICDP MagellanPlus Workshop Series Programme continues to be a success and is designed to support ECORD member scientists in developing new and innovative science proposals for submission to IODP and ICDP. Currently, there are two upcoming MagellanPlus workshops related to IODP science scheduled in 2014:

- Advancing Subsurface Biosphere and Paleoclimate Research, 21-23 August 2014, Seoul, South Korea
- Newfoundland Drilling for Miocene Climate Dynamics - Filling the Oligo-Miocene gap in the North Atlantic, 15-17 September 2014, Heidelberg, Germany

A call for new workshop proposals has been issued, with a deadline of 1 July 2014.

The current ECORD Distinguished Lecturer Programme (DLP) officially runs until June 2014. The three ECORD Distinguished Lecturers, Claude Hillaire-Marcel, Benoît Ildefonse and Roger Urgeles, have given a total of 35 lectures in ECORD countries. The DLP will continue for the next two years and the third phase of DLP lecturers will be selected at the upcoming ESSAC meeting in Iceland. Please come prepared to discuss the candidates. Once the new group of Distinguished Lecturers has been selected, ESSAC will issue a call for institutions to host the lectures.

Young scientists once again have the opportunity to participate in two ECORD Summer Schools related to marine science research and ocean drilling in 2014:

- The ECORD-Urbino Summer School in Paleoclimatology (USSP) on Past Global Change Reconstruction and Modelling Techniques. University of Urbino, Italy, 9 to 24 July 2014
- ECORD Bremen Summer School - Subseafloor Biosphere: Current Advances and Future Challenges. MARUM, University of Bremen, Germany, September 22 to October 3, 2014.

As in past years, ESSAC provides ECORD Scholarships to allow young scientists to attend one of these summer schools (application deadline was 2 April 2014). ESSAC received 55 scholarship applications for the USSP and 13 applications for the Bremen summer school. Furthermore, the ESSAC Office has issued a call to host new ECORD-sponsored summer schools in 2015. The deadline for these applications was 5 May 2014 and we received four applications. These have been distributed to the ESSAC delegates and will be discussed at the upcoming ESSAC meeting in Iceland.

A call for applications for ECORD Research Grants was issued with an extended deadline until 14 May 2014. These applications will also be distributed and will be discussed at the upcoming ESSAC meeting in Iceland.

As part of the Teachers at Sea programme, an initiative of the Consortium for Ocean Leadership, ESSAC offered the unique opportunity for teachers and educators of ECORD countries to sail on one of the three Izu Bonin IODP Expeditions. Two ECORD teachers were selected: Lesley Allen (UK) will sail on IODP Exp. 350 (Rear Arc) and Markus Fingerle (Germany) will sail on Exp. 351 (Arc Origins). We are looking forward to hearing about their experiences.

Further ESSAC-related activities included the EGU 2014 General Assembly Meeting (28 April - 2 May, 2014), where we held the EuroForum 2014: "Major

achievements and future perspectives in scientific ocean and continental drilling session". We were pleased to host an Arne Richter Award for Outstanding Young Scientists Lecture given by Peter Bijl, which was highly attended. As has now become tradition at the EGU Meeting, more information about the new program and possibilities to get involved was available at the IODP-ECORD-ICDP Scientific Drilling booth in the exhibit hall and at the IODP-ICDP Town Hall Meeting.

More information about past and future IODP- and ECORD-related activities and upcoming meetings can be found in the ECORD Newsletter #22, which was published on time in April and thanks to the tremendous efforts of Patricia Maruéjol.

In summary, ESSAC remains active in science support and outreach activities and in shaping the future of ocean research. We are pleased to take part in this new phase of scientific ocean drilling and look forward to seeing exciting workshops, new science proposals and active participation by the science community. The ESSAC Office relies on, and greatly appreciates, the active involvement of the ESSAC Delegates in the various ranking and selection processes related to expeditions, panel membership, and education and outreach activities. Thank you all for your efforts and support with these tasks!

This ESSAC meeting in Iceland is the second meeting in the new IDOP program. We would sincerely like to thank Bryndís Brandsdóttir for hosting this meeting and for her tremendous efforts in organising the meeting and the two field trips.

We look forward to seeing you in Iceland and wish everyone a successful and pleasant meeting,

Gretchen Früh-Green, ESSAC Chair  
Julia Gutiérrez-Pastor, ESSAC Science Coordinator

#### **1.1 Call to order, introductions**

G. Früh-Green will pass on the introductions.

#### **1.2 Welcome and meeting logistics**

B. Brandsdóttir will provide information about the meeting logistics.

#### **1.3 Discussion and approval of the (1) agenda and (2) Haifa 1<sup>st</sup> ESSAC meeting minutes**

At the meeting in, Poland Keflavik, G. Früh-Green will summarize the current agenda and remark potential goals of the meeting and/or changes of the agenda.

#### **1.4 Review of 1<sup>st</sup> ESSAC meeting action items**

J. Gutierrez-Pastor will present items since the last ESSAC meeting. The list below contains the actions items, which arose at the 1<sup>st</sup> ESSAC meeting in Haifa. Action items that have been accomplished by the ESSAC Office since then are labelled as "Done". Action items not yet fulfilled are labelled "in progress". The complete list of consensus, motions and actions from the 1<sup>st</sup> meeting are listed in Annex 1.

> **ESSAC Action Item 1311-01:** ESSAC Office to include in the ESSAC Budget a request for funding of an ESSAC liaison to SEP. *Done*



> **ESSAC Action Item 1311-02:** ESSAC Office to discuss the concept of an “ECORD Ambassador Program” at the VTF and the Council and to discuss with the ECORD Council budgetary implications. **Done**

> **ESSAC Action Item 1311-03:** ESSAC Office to keep a record of the number and country of scientists invited to an Expedition and who have applied in response to an emergency call, even when they do not count towards their country quota. **Done**

> **ESSAC Action Item 1311-04:** ESSAC Office to issue a call for ECORD scientists to the SEP of the new IODP SAS after consultation about needed expertise’s with the SEP Chair D. Kroon. **To do**

> **ESSAC Action Item 1311-05:** ESSAC Office to issue a call for French ECORD scientists to the Site Survey subgroup of SEP after consultation about needed expertise’s with D. Mallison (Chair). **Done**

> **ESSAC Action Item 1311-06:** ESSAC Office to circulate among ESSAC Delegates the outcomes of the nominations by the ESSAC Subcommittees, time permitting. **Done**

> **ESSAC Action Item 1311-07:** ESSAC Office to forward information to the National ESSAC Delegates and IODP National Offices about the invitations that the Operators issue to ECORD scientists. **In Progress**

> **ESSAC Action Item 1311-08:** ESSAC Office to seek approval by the Council and the JR FB for the extension of the term of Gabi Uenzelmann-Neben in SEP. **Done**

> **ESSAC Action Item 1311-09:** The Chair of the N&S Subcommittee to provide a template for a CV for applications to participate in IODP Expeditions. This template will be then circulated by the ESSAC Office among ESSAC Delegates for final approval. **To do**

> **ESSAC Action Item 1311-10:** ESSAC Office to issue a call for ECORD Summer Schools in FY15 at the end of 2013. **Done**

> **ESSAC Action Item 1311-11:** ESSAC Office to issue a call for ECORD Grants FY14 in January 2014. **Done**

> **ESSAC Action Item 1311-12:** ESSAC Office to issue a call for ECORD Scholarships in FY14 at the end of 2013. **Done**

> **ESSAC Action Item 1311-13:** ESSAC Office to issue a call for DLPs in FY14-15 in January 2014. **Done**

> **ESSAC Action Item 1311-14:** ESSAC Office to provide Teachers at Sea with Questionnaires to collect data that will allow us to establish the impact that their participation in these Expeditions has in the development of schools curriculum and other educational activities. **Done**

> **ESSAC Action Item 1311-15:** ESSAC Office to issue a call for the 2014-2015 DLP lecturers with duration of 24 months for their term. **Done**

## **2. IODP – Platform Operator News**

### **2.1 IODP Update**

G. Früh-Green will present an update about the new IODP Program.

### **2.2 EMA, ECORD Council, ECORD Vision Task Force (VTF)**

G. Früh-Green will give a summary about the latest news regarding EMA, ECORD Council and ECORD Vision Task Force (VTF) activities.

### **2.3 JR Facility Board Report**

D. Weis will report about the outcome of the last JR Facility Board meeting, held in Washington, DC, 23-24 April 2014.

### **2.4 ECORD Facility Board Report**

D. Weis will report about the news from the ECORD Facility Board.

## **3. ESO and ESSAC News**

### **3.1 ESO**

A. Stevenson will present the news of ESO.

ESO Update to ESSAC, May 2014

After the successful completion of the offshore phase of IODP Expedition 347: Baltic Sea Paleoenvironment in November 2013, the Onshore Science Party (OSP) was held from 22 January-20 February 2014 at the IODP Bremen Core Repository at the Center for Marine Environmental Sciences (MARUM), University of Bremen. Further analytical laboratories were accessed at MARUM and the Department of Geosciences at the University of Bremen.

During the OSP, the cores were described in detail and the IODP minimum and some standard measurements were made. The ESO Bremen and EPC teams were instrumental in preparing the laboratories for IODP measurements and organising the logistics for the OSP. A pre-onshore measurement program was conducted by the EPC team from 25 November 2013 to 17 January 2014, when Natural Gamma Ray (MSCL-XYZ) and Thermal Conductivity measurements were taken. Further details of the OSP operation, the ESO staff who participated and initial scientific findings have been reported in ECORD Newsletter #22, and will shortly be reported in the IODP Expedition 347 Preliminary Report and the ECORD FY13 Annual Report.

With the Baltic Expedition now in its post-expedition research phase, ESO is turning towards implementing its next MSP expedition - IODP Expedition 357: Atlantis Massif. The objectives of this proposal can be met using a seabed drill deployed from a research vessel, and is expected to be considerably cheaper than a standard MSP expedition that normally requires contracting a drilling platform from the commercial sector. ESO has applied for the use of the NERC-operated research ship RRS James Cook for Oct/Nov 2015, and is currently awaiting approval. The Co-chief Scientists for this expedition are Gretchen Früh-Green (ETH Zurich, Switzerland) and Beth Orcutt (Bigelow Laboratory for Ocean Sciences, Maine, USA). A Project Management Team meeting has been arranged for 15 May at the BGS offices

in Edinburgh. ESO operations staff, Co-chief Scientists and proponents will meet to discuss the expedition's science requirements and how they can be accommodated by using seafloor drills as the primary coring tool.

Related to Expedition 357, an Engineering Development budget was recently approved by ECORD to support the development of new downhole logging and fluid sampling tools for the British Geological Survey and MARUM seafloor drills. This new development work is now underway.

In parallel to planning for Expedition 357, ESO are scoping the MSP proposals recommended for scheduling by the Science Evaluation Panel (SEP) and residing with the ECORD Facility Board: P548 Chicxulub K-T Impact Crater, P581 Late Pleistocene Corallgal Banks, P637 New England Shelf Hydrogeology, P708 Central Arctic Paleoclimate (ACEX2), P716 Hawaiian Drowned Reefs and P813 Antarctic Cenozoic Paleoclimate. ESO will continue to scope these proposals, and work with the proponents to minimise the overall expedition costs.

### 3.2 ECORD Education & Outreach Task Force update

P. Maruéjol will report on the outreach activities and news of the ECORD Outreach and Education Task Force (<http://www.ecord.org/about/structure.html>)

The last meeting of the Task Force was held in Bremen (Germany) on February 4-5, 2014, and attended by A. Stevenson and A. Gerdes (ESO), G. Früh-Green and Julia Gutiérrez Pastor (ESSAC), M. Borissova, G. Camoin and P. Maruéjol (EMA), Thomas Wiersberg (ICDP) and Matthew Wright (Consortium for Ocean Leadership).

**From December 2013 to May 2014** the following activities have been carried out:

- Contribution to the IODP-USIO booth at AGU 2013,
- Distribution of ECORD/IODP documents at MagellanPlus Workshops,
- Contribution to the first Teachers Workshop organised in France,
- Sponsoring a student workshop at Goldschmidt 2014,
- ECORD/IODP-ICDP activities at EGU 2014, Vienna, April 27- May2, 2014: joint ECORD-IODP-ICDP booth with logging demonstrations, and townhall meeting with highlights on IODP expeditions and ICDP projects  
<http://www.ecord.org/pi/egu14.html>,
- ECORD publications - <http://www.ecord.org/pub/publications.html> and materials
  - ECORD Annual Report 2013, a 50-page document released mid March 2014
  - ECORD Newsletters: #21 - November 2013 and #22 - April 2014
  - ECORD folder and flyers have been updated,
  - A new core replica illustrating geohazards (Expedition 343 J-FAST) has been ordered.

We also started to discuss how to post science publications by ECORD scientists online.

Outreach activities/publications planned **from June to December 2014** are:

- Organisation of “Scientific Drilling IODP-ICDP” booths at ISC 2014, August 18-22, Geneva, Switzerland, and AGU 2014, December 9-13 in San Francisco,
- Supporting IODP-Italia at the Italian Geological Society in Milan (Sept 10-12, 2014)
- Preparing ECORD Newsletter #23 - late October 2014 with the following deadlines:
  - Call for contributions: late June - early July 2013
  - Authors' deadline: October 1, 2013
  - Date of release: late October-early November 2014

The **next ECORD Outreach and Education Task Force** meeting is scheduled on September 3-4, 2014 in Zurich, Switzerland.

**ECORD online:**

ECORD portal: <http://www.ecord.org>

ECORD News: [http://www.ecord.org/RSS/news\\_ECORD.xml](http://www.ecord.org/RSS/news_ECORD.xml)

Follow ECORD on twitter: [http://www.twitter.com/ECORD\\_outreach](http://www.twitter.com/ECORD_outreach)

ESSAC facebook page: <https://www.facebook.com/essac.ecord>

**3.2.1 Discussion: ECORD publications**

P. Maruéjol will lead the discussion related to ECORD publications.

**3.3 ESSAC Office news**

J. Gutiérrez-Pastor will update the ESSAC office news.

**3.4 ESSAC representatives and National Office reports**

Each ESSAC delegate will give a short summary about the latest national activities regarding IODP and ECORD issues. The current ESSAC delegates and alternates are given in the table down below:

<b>ESSAC Delegates and Alternates</b>		
<b>Austria</b>	Werner E. Piller	Michael Wagreich
	<a href="mailto:werner.piller@uni-graz.at">werner.piller@uni-graz.at</a>	<a href="mailto:michael.wagreich@univie.ac.at">michael.wagreich@univie.ac.at</a>
<b>Belgium</b>	David Van Rooij	Kenneth Mertens
	<a href="mailto:David.VanRooij@Ugent.be">David.VanRooij@Ugent.be</a>	<a href="mailto:kenneth.mertens@ugent.be">kenneth.mertens@ugent.be</a>
<b>Canada</b>	Dominique Weis	Markus Kienast
	<a href="mailto:dweis@eos.ubc.ca">dweis@eos.ubc.ca</a>	<a href="mailto:markus.kienast@dal.ca">markus.kienast@dal.ca</a>
<b>Denmark</b>	Marit-Solveig Seidenkrantz	Paul Cornils Knutz
	<a href="mailto:mss@geo.au.dk">mss@geo.au.dk</a>	<a href="mailto:pkn@geus.dk">pkn@geus.dk</a>
<b>Finland</b>	Aarno Kotilainen	Outti Hyttinen
	<a href="mailto:aarno.kotilainen@gtk.fi">aarno.kotilainen@gtk.fi</a>	<a href="mailto:Outi.hyttinen@helsinki.fi">Outi.hyttinen@helsinki.fi</a>
<b>France</b>	Georges Ceulener	Anne Le Friant
	<a href="mailto:georges.ceulener@get.obs-mip.fr">georges.ceulener@get.obs-mip.fr</a>	<a href="mailto:lefriant@ipgp.fr">lefriant@ipgp.fr</a>
<b>Germany</b>	Ruediger Stein	Jochen Erbacher
	<a href="mailto:Ruediger.Stein@awi.de">Ruediger.Stein@awi.de</a>	<a href="mailto:j.erbacher@bgr.de">j.erbacher@bgr.de</a>
<b>Iceland</b>	Bryndís Brandsdóttir	Gudrún Helgadóttir
	<a href="mailto:bryndis@raunvis.hi.is">bryndis@raunvis.hi.is</a>	<a href="mailto:gudrun@hafro.is">gudrun@hafro.is</a>
<b>Ireland</b>	Xavier Monteys	David Hardy
	<a href="mailto:Xavier.Monteys@gsi.ie">Xavier.Monteys@gsi.ie</a>	<a href="mailto:david.hardy@gsi.ie">david.hardy@gsi.ie</a>
<b>Italy</b>	Andrea Argnani <a href="mailto:andrea.argnani@ismar.cnr.it">andrea.argnani@ismar.cnr.it</a>	TBD
<b>Israel</b>	Nicolas Waldman <a href="mailto:nwaldmann@univ.haifa.ac.il">nwaldmann@univ.haifa.ac.il</a>	Sigal Abramovich <a href="mailto:sigalabr@bgumail.bgu.ac.il">sigalabr@bgumail.bgu.ac.il</a>

<b>The Netherlands</b>	Lucas Lourens <a href="mailto:llourens@geo.uu.nl">llourens@geo.uu.nl</a>	Stefan Schouten <a href="mailto:schouten@nioz.nl">schouten@nioz.nl</a>
<b>Norway</b>	Helga F. Kleiven <a href="mailto:kikki@uib.no">kikki@uib.no</a>	Katrine Husum <a href="mailto:katrine.husum@npolar.no">katrine.husum@npolar.no</a>
<b>Poland</b>	Szymon Uscinowicz <a href="mailto:szymon.uscinowicz@pgi.gov.pl">szymon.uscinowicz@pgi.gov.pl</a>	Piotr Przewdziecki <a href="mailto:piotr.przewdziecki@pgi.gov.pl">piotr.przewdziecki@pgi.gov.pl</a>
<b>Portugal</b>	Antje Voelker <a href="mailto:antje.voelker@lneg.pt">antje.voelker@lneg.pt</a>	Luiz F. Menezes Pinheiro <a href="mailto:imp@geo.ua.pt">imp@geo.ua.pt</a>
<b>Sweden</b>	Ian Snowball <a href="mailto:ian.snowball@geol.lu.se">ian.snowball@geol.lu.se</a>	Eve Arnold <a href="mailto:eve.arnold@geo.su.se">eve.arnold@geo.su.se</a>
<b>Switzerland (Chair)</b>	Gretchen Früh-Green <a href="mailto:frueh-green@erdw.ethz.ch">frueh-green@erdw.ethz.ch</a>	Judith McKenzie <a href="mailto:judy.mckenzie@erdw.ethz.ch">judy.mckenzie@erdw.ethz.ch</a>
<b>U.K.</b>	Bridget Wade <a href="mailto:B.Wade@leeds.ac.uk">B.Wade@leeds.ac.uk</a>	Anthony Morris <a href="mailto:A.Morris@plymouth.ac.uk">A.Morris@plymouth.ac.uk</a>
<b>Vice-Chair</b>	Carlota Escutia <a href="mailto:cescutia@ugr.es">cescutia@ugr.es</a>	

## 4. Expeditions, Nominations and Staffing (1)

### 4.1 Staffing

G. Früh-Green will give an update on Staffing.

#### 4.1.4 Updates on expedition staffing and applications

#### 4.1.2 Ranking procedures and statistics

#### 4.1.3 Discussion – Quotas, CPPs, in-kind contributions

#### 4.1.4 Discussion of ranking feedback among ESSAC Delegates

Staffing list: Annex 2

### 4.2 SEP update

G. Früh-Green will give an update about proposals at SEP.

## 5. Breakout Sessions

### 5.1 Introductions

Introductions will be provided by G. Früh-Green to guide discussions.

### 5.2 Breakout sessions: ESSAC Nominations and Staffing (lead: A. Völker)/ Education and Outreach Subcommittees (lead: M. Seidenkrantz)

The ESSAC Nomination and staffing Education and Outreach Subcommittees will meet for 60 minutes.

## 6. ECORD highlights: Páll Einarsson (University of Iceland, Reykjavík) – An overview of the geology and volcanism of Iceland

- 7. ECORD Highlights: Christian France Lanord** (CNRS, Nancy) – Himalaya from mountain to ocean

## **8. Education and outreach**

### **8.1 ECORD Summer Schools 2014 update (J. Gutiérrez-Pastor)**

J. Gutierrez-Pastor will give an update about the ECORD Summer Schools 2014.

#### **8.1.1 Urbino Summer School in Paleoclimatology July 2014**

#### **8.1.2 ECORD Summer School on Subseafloor Biosphere, MARUM, Bremen, September-October 2014**

### **8.2 ECORD Summer Schools 2015 update & selection (J. Gutiérrez-Pastor)**

J. Gutierrez-Pastor will present the ECORD Summer Schools 2015 applications.

### **8.3 ECORD Grants and Summer School Scholarships 2013-2014 (J. Gutiérrez-Pastor)**

J. Gutierrez-Pastor will give a summary of the ECORD Scholarships and Grants 2013.

#### **8.3.1 Discussion of award criteria and awards to non-ECORD applicants**

### **8.4 E&O Subcommittee report, discussion and future actions**

N. Waldmann will report on the E&O subcommittee discussions and give an overview of future actions.

### **8.5 Distinguished Lecturer Programme – selection of new lecturers**

G. Früh-Green will present an update of the Distinguished Lecturer Programme 2013/2014 and the future lecturers will be selected by the ESSAC delegates.

### **8.6 Teachers at Sea (J. Gutiérrez-Pastor)**

J. Gutierrez-Pastor will show the current status of ECORD Teachers at Sea.

### **8.7 Changes to the ECORD/ESSAC websites (J. Gutiérrez-Pastor)**

J. Gutierrez-Pastor will present the current changes and future new changes to the ECORD/ESSAC websites.

## **9. Expeditions, Nominations and Staffing (2)**

### **9.1 Updates on advisory panel members**

G. Früh-Green will present rotations on panels, replacements and give an update of the applications received from past calls for replacements on SEP and EPSP.

#### **9.1.1 New calls and alternates**

## **9.2 Nomination and Staffing Subcommittee report, discussion and future actions**

A. Voelker will report on the N&S subcommittee discussions and give an overview of future actions.

## **9.3 Discussion of ESSAC vice-chair 2015-2016/ future chair 2016-2018**

# **10. Workshop and Conference Reports**

## **10.1 Magellan Plus Programme updates**

M. Seidenkrantz will report on the Magellan Plus Program.

### **10.1.1 Possible future workshops related to Horizon 2020**

B. Brandsdóttir and G. Früh-Green will lead a discussion of possible ways to participate in producing a digital maps of European waters as part of the Action Plan for Innovation in the “Blue Economy” as part of Horizon 2020 (See Annex 3).

## **10.2 Reports on past and future workshops and conferences**

P. Maruéjol will report on future workshops, conferences and outreach activities.

### **10.2.1 Planned outreach activities future conferences**

## **10.3 Joint IODP/ICDP session at the EGU 2014 in Vienna**

G. Früh-Green will report about the past Joint IODP/ICDP session at the EGU 2014 in Vienna.

### **10.3.1 Plans for EGU 2015?**

# **11. Review of consensus, motions and actions**

G. Früh-Green will review the list of consensus, motions and actions of the 2<sup>nd</sup> ESSAC meeting.

# **12. Next meetings**

12.1 ESSAC #3-ECORD Joint Meeting, Tuesday October 7- Friday October 10, 2014, Zürich (Fieldtrip: Wednesday, 8 Oct)

12.2 ESSAC #4, May, 2015, Who is willing to host - UK (Bridget Wade as host)?

# **13. Any other business**

G. Früh-Green will ask and summarize if there is any other business.

## Annex 1

### LIST OF CONSENSUS, MOTIONS AND ACTIONS 1<sup>st</sup> ESSAC MEETING Haifa, 4-6 November, 2013

#### 1. INTRODUCTION

##### 1.3 Discussion and approval of the Agenda

**ESSAC Consensus 1311-01:** ESSAC approves the Agenda of its 1<sup>st</sup> meeting on 4-6 November, 2013 in Haifa, Israel

**ESSAC Consensus 1311-02:** ESSAC approves the Minutes of its 20<sup>th</sup> meeting on 3-5 June, 2013 in Gdansk, Poland

#### 2. Breakout and Plenary Discussions

**ESSAC Consensus 1311-03:** ESSAC recognizes the need to improve its links with SEP and monitoring of the MagellanPlus Program in order to comply with its mandate of providing advice on ECORD science priorities and initiating workshops in specific scientific themes of interest to ECORD.

> **ESSAC Action Item 1311-01:** ESSAC Office to include in the ESSAC Budget a request for funding of an ESSAC liaison to SEP.

**ESSAC Consensus 1311-04:** ESSAC endorses contributions by non-ECORD IODP countries to participate in the ECORD Educational Programs. ESSAC recognizes the implications at the level of number of summer schools, number of scholarships, etc and encourages the development of ECORD Summer schools that would ideally cover most of the IODP Science Plan themes.

**ESSAC Consensus 1311-05:** ESSAC endorses the concept of an "ECORD Ambassador Program" in which, in addition to the 3 DLP Science Lectures in themes of the IODP Science Plan, interested host institutions could choose lecturers that are of most interest to them: lectures by ESSAC (for how to participate in ECORD and the IODP, proposal guidance, etc), ESO (for operations), EMA (for managing issues), or even request an ECORD IODP-day that would include all or several of the above.



> **ESSAC Action Item 1311-02:** ESSAC Office to discuss the concept of an "ECORD Ambassador Program" at the VTF and the Council and to discuss with the ECORD Council budgetary implications.

**ESSAC Consensus 1311-06:** ESSAC discussed the necessity to coordinate a list of IODP ECORD publications and theses and concluded that the compilation should be carried out at the National Office level.

### **3. Nominations and Staffing**

#### **3.1 Staffing**

**ESSAC Consensus 1311-07:** ESSAC agrees that scientists invited to an IODP Expedition who have applied in response to an emergency call should not count against country quota.

> **ESSAC Action Item 1311-03:** ESSAC Office to keep a record of the number and country of scientists invited to an Expedition and who have applied in response to an emergency call, even when they do not count towards their country quota.

**ESSAC Consensus 1311-08:** ESSAC agrees to issue a new call for ECORD scientist membership in Science Evaluation subgroup of SEP to find replacements for the ECORD members that will be rotating out in 2014. ESSAC also agrees to issue a new call for a French ECORD scientist in Site Survey subgroup of SEP to find a replacement for Giles Lericolais (Vice-chair).

> **ESSAC Action Item 1311-04:** ESSAC Office to issue a call for ECORD scientists to the SEP of the new IODP SAS after consultation about needed expertise's with the SEP Chair D. Kroon.

> **ESSAC Action Item 1311-05:** ESSAC Office to issue a call for French ECORD scientists to the Site Survey subgroup of SEP after consultation about needed expertise's with D. Mallison (Chair).

> **ESSAC Action Item 1311-06:** ESSAC Office to circulate among ESSAC Delegates the outcomes of the nominations by the ESSAC Subcommittees, time permitting.

> **ESSAC Action Item 1311-07:** ESSAC Office to forward information to the National ESSAC Delegates and IODP National Offices about the invitations that the Operators issue to ECORD scientists.

### **5.3. Nomination and Staffing Subcommittee report, discussion and future actions**

**ESSAC Consensus 1311-09:** ESSAC agrees to extend the nomination of Gabi Uenzelmann-Neben in the Site Survey Panel of the SEP. This extension is based on her upcoming nomination as Vice-Chair for this Panel.

> **ESSAC Action Item 1311-08:** ESSAC Office to seek approval by the Council and the JR FB for the extension of the term of Gabi Uenzelmann-Neben in SEP.

> **ESSAC Action Item 1311-09:** The Chair of the N&S Subcommittee to provide a template for a CV for applications to participate in IODP Expeditions. This template will be then circulated by the ESSAC Office among ESSAC Delegates for final approval.

### **4. Education and Outreach**

> **ESSAC Action Item 1311-10:** ESSAC Office to issue a call for ECORD Summer Schools in FY15 at the end of 2013.

> **ESSAC Action Item 1311-11:** ESSAC Office to issue a call for ECORD Grants FY14 in January 2014.

> **ESSAC Action Item 1311-12:** ESSAC Office to issue a call for ECORD Scholarships in FY14 at the end of 2013.

> **ESSAC Action Item 1311-13:** ESSAC Office to issue a call for DLPs in FY14-15 in January 2014.

### **4.6. Education and Outreach Subcommittee report, discussion and future actions**

**ESSAC Consensus 1311-10:** ESSAC agrees to provide the revised Teacher's Questionnaire to Teachers that sail on IODP Expeditions in order to collect data that allows establishing the impact that their participation in these Expeditions has in the development of schools curriculum and other educational activities.

> **ESSAC Action Item 1311-14:** ESSAC Office to provide Teachers at Sea with Questionnaires to collect data that will allow to establish the impact that their participation in these Expeditions has in the development of schools curriculum and other educational activities.

**ESSAC Consensus 1311-11:** ESSAC agrees that DLP lectures should be given within a period of 24 months. Within this period ESSAC can issue an additional call for a DLP in order to cover missing themes of the Science Plan.

## **7. Next meetings**

**ESSAC Consensus 1311-12:** Location of ESSAC Meeting #2 Iceland. The date of the meeting will be 25-27 May, 2014.

## **8. Other business**

**ESSAC Consensus 1311-13:** ESSAC thanks Nicolas Waldmann for hosting the 1st ESSAC Meeting in Haifa, Israel.

## ANNEX 2

### CURRENT STAFFING OF ECORD SCIENTISTS

#### 350 participants

JUTZELER, Martin (Germany)	Sediments/Volcaniclastics
SCHINDLBECK, Julie (Germany)	Sediments/Volcaniclastics
BARKER, Abigail (Sweden)	Igneous Rocks/Volcaniclastics
BERGER, Julien (France)	Igneous Rocks/Volcaniclastics
HAMELIN, Cedric (Norway)	Igneous Rocks/Volcaniclastics
MAHONEY, Sue (UK)	Physical Properties
JONAS, Ann-Sophie (Germany)	Geochemistry, Organic
BORDIGA, Manuela (Sweden)	Micropaleontology – Nannofossils <b>Special Call</b>
JOHN, Eleanor (UK)	Micropaleontology - Planktic Foraminifers <b>Sp. Call</b>
VAUTRAVERS, Maryline (UK)	Micropaleontology - Planktic Foraminifers <b>Sp. Call</b>

#### 351 participants

SAVOV, Ivan (UK)	Sedimentologist
BRANDL, Philipp (Germany)	Igneous Petrologist
MCCARTHY, Anders (Switzerland)	Igneous Petrologist
MORRIS, Tony (UK)	Paleomagnetist
MAFFIONE, Marco (Netherlands)	Paleomagnetist
SENA, Clara (Portugal)	Inorganic Geochemist, <b>Special Call</b>
KENDER, Sev (UK)	Foraminifer Micropaleontologist
VAN DER LAND, Cees (UK)	Inorganic Geochemist

#### 352 participants

ROBERTSON, Alastair (UK)	Sedimentologist
KUTTEROLF, Steffen (Germany)	Sedimentologist
PRYTULAK, Julie (UK)	Petrologist
KURZ, Walter (Austria)	Structural Geologists, <b>Special Call</b>
ALMEEV, Renat (Germany)	Physical Properties
CARVALLO, Claire (France)	Paleomagnetist
GODARD, Margarite (France)	Inorganic Geochemist
KIRCHENBAUR, Maria (Germany)	Inorganic Geochemist

#### 353 invitations

MARTINEZ, Philippe (France)	Sedimentologist
LITTLER, Kate (UK)	Sedimentologist
RODRIGUEZ, Mathieu (France)	Physical Properties/downhole measurements
TAYLOR, Samuel (France)	Paleomagnetist
HATHORNE, Ed (Germany)	Inorganic Geochemist
ROMERO, Oscar (Germany)	Diatom Micropaleontologist
BOLTON, Clara (Germany)	Nannofossil Micropaleontologist

#### 353 **Special Call** for Biostratigraphers

GIARIBOLDI, Karan (Italy)	Diatom Micropaleontologist, to be invited.
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#### 354 invitations

NAJMAN, Yani (UK)	Sedimentologist
CASTELLTORT, Sebastian (Switz.)	Sedimentologist
HUYGHE, Pascale (France)	Sedimentologist

WEBER, Michael (Germany)	Physical Properties Specialist
GALY, Albert (France)	Organic Geochemist
ADHIKARI, Rishi Ram (Germany)	Organic Geochemist
FOX, Lyndsey (UK)	Foraminifer Micropaleontologist

**354 Special Call for Biostratigraphers and Paleomagnetists. Deadline: 13 May**

8 applications: 2 Germany, 2 Norway, 1 UK, 1 Italy, 1 France, 1 Israel

**355 applications**

16 valid applications: 6 UK, 5 Germany, 2 France, 2 The Netherlands, 1 Italy  
1 from Turkey (not considered)

**356 applications**

10 valid applications: 4 Germany, 3 UK, 1 The Netherlands, 1 Austria, 1 Belgium  
1 from Turkey (not considered)

LAST UPDATED: 19 MAY, 2014



**EUROPEAN COMMISSION**

**PRESS RELEASE**

Brussels, 8 May 2014

## **EU eyes oceans innovation as source of sustainable growth**

Two thirds of our planet is covered by oceans and seas. If we manage them in a responsible manner, they can provide sources of food, medicine and energy while protecting ecosystems for generations to come. However, in order to make this possible, we need to know more about our seas and oceans. The Commission has therefore today presented an Action Plan for Innovation in the 'Blue Economy' to help use ocean resources sustainably and drive growth and jobs in Europe.

European Commissioner for Maritime Affairs and Fisheries, Maria Damanaki said: *"Today, we put the building blocks in place so that tomorrow's generation of Europeans will have the knowledge and skills to better manage our oceans and draw the full benefits they can provide us, while respecting the balance of the ecosystem of the sea."* She continued: *"For example, our initiative to create a digital map of the entire seabed of European waters will increase the predictability for businesses to invest, lowering costs and stimulate further innovation for sustainable blue growth."*

The Commission identifies a number of hurdles to be overcome: our knowledge about the sea is still limited, maritime research efforts between Member States are not linked up, whilst the European workforce of tomorrow will need more engineers and scientists to apply new technologies in the marine environment.

European Commissioner for Research and Innovation, Máire Geoghegan-Quinn said: *"We probably know more about the surface of the Moon and even Mars than we do about the deep sea floor. Maritime innovation has enormous potential for our economy, and will help us meet challenges like climate change and food security. Blue Growth is therefore a focus area for Horizon 2020, our new research and innovation programme."*

The Commission action plan presented today proposes to:

- Deliver a digital map of the entire seabed of European waters by 2020.
- Create an online information platform, to be operational before the end of 2015, on marine research projects across the [Horizon 2020](#) programme as well as nationally funded marine research, and to share results from completed projects.
- Set up a Blue Economy Business and Science Forum, which will involve the private sector, scientists and NGOs to help shape the blue economy of the future and share ideas and results. A first meeting will take place in the margins of the 2015 Maritime Day event in Piraeus, Greece.
- Encourage research, business and education actors to map out the needs and skills for tomorrow's workforce in the maritime sector by 2016.

- Examine the possibility of major players from the research, business and education community to form a [Knowledge and Innovation Community](#) (or KIC) for the blue economy after 2020. KICs, part of the European Institute of Innovation and Technology (EIT) can stimulate innovation in multiple ways, for example by running training and education programmes, reinforcing the path from research to the market and setting up innovation projects and business incubators.

## Background

The EU's maritime or "blue" economy is vast, with over 5 million employees in sectors as diverse as fisheries, transport, marine biotech and offshore renewables.

Between 2007 and 2013, the European Commission contributed an average of €350 million a year towards marine and maritime research through its seventh Framework Programme. A substantial amount of marine research is also carried out through Member States' programmes (around €300 million per year in France and Germany for example). Blue growth is a "focus area" in the new Horizon 2020 programme, with a specific €145 million budget for 2014-2015 alone, and further opportunities across the programme.

Around 30% of the seafloor surrounding Europe has not yet been surveyed. This varies from 5% of the Bay of Biscay and the Iberian Coast to more than 40% of the North Sea and the Ionian and central Mediterranean. A better understanding of what is happening below sea level will provide a better knowledge of ocean resources and a better understanding of how these can be used sustainably.

Skill gaps are already apparent in the wind energy sector. In 2012, this offshore sector represented 10% of the annual wind capacity installed, and employed 58,000 people directly and indirectly across Europe. It is projected that by 2020, the proportion of wind power offshore will reach 30% of the annual wind installed capacity. That means 191,000 jobs by 2020, growing to 318,000 by 2030. But the sector could also see a skill shortage growing from 7,000 now to 14,000 full-time equivalents if the future workforce is not equipped with skills in maintenance and manufacturing for example.

## For more information

- Innovation in the Blue Economy: Realising the potential of our seas and oceans for jobs and growth:  
[http://ec.europa.eu/maritimeaffairs/policy/marine\\_knowledge\\_2020/index\\_en.htm](http://ec.europa.eu/maritimeaffairs/policy/marine_knowledge_2020/index_en.htm)
- [MEMO/14/336](#) : Questions and Answers on innovation in the blue economy
- [MEMO/14/337](#): Blue Economy Innovation: examples of EU marine research
- Brochure on EU research projects for the 'Oceans of Tomorrow' (PDF file)  
[http://ec.europa.eu/research/bioeconomy/pdf/ocean-of-tomorrow-2014\\_en.pdf](http://ec.europa.eu/research/bioeconomy/pdf/ocean-of-tomorrow-2014_en.pdf)
- Horizon 2020: <http://ec.europa.eu/programmes/horizon2020/>
- Blue growth in the EU - a set of studies:  
<https://webgate.ec.europa.eu/maritimeforum/en/community/msexperts/articles/blue-growth-eu-set-studies>

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