

AGENDA BOOK
ESSAC Meeting # 5
26 October 2015
Naples, Italy



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**** The logistics are included in the ECORD/ESSAC joint meeting Agenda***



ESSAC Meeting #5
Monday, 26 October 2015, 13:30 – 17:30
Castel dell'Ovo, Naples, Italy

AGENDA

- 1. Introduction** D. Weis (20 minutes)
 - 1.1 Call to order, introductions
 - 1.2 Welcome and meeting logistics
 - 1.3 Approval of the (1) agenda and (2) minutes from the 4th ESSAC meeting, Uppsala
 - 1.4 Review of consensus and action items from Uppsala ESSAC meeting #4 (by email / J. Gutiérrez-Pastor)
- 2. ESSAC Activities and News** (30 minutes)
 - 2.1 ESSAC representatives and National Office reports / issues (ESSAC Delegates)
- 3. Expeditions, Nominations and Staffing** D. Weis (60 minutes)
 - 3.1 Staffing
 - 3.1.1 Updates on expedition staffing and applications (*ESSAC Annex 1*)
 - 3.1.2 Discussion – Quotas, CPPs, in-kind contributions (*ESSAC Annex 2*)
 - 3.1.3 Upcoming deadlines
 - 3.2 Update on advisory panel members and applications
 - 3.3 Upcoming calls for expeditions & panel members
- 4. Education and outreach – updates and outstanding issues** J. Gutiérrez-Pastor & D. Weis (60 minutes)
 - 4.1 Update on status of DLP – scheduling, budget (*ESSAC Annex 3*) (J. Gutiérrez-Pastor)
 - 4.2 ECORD Summer Schools & Training Courses (J. Gutiérrez-Pastor)
 - 4.2.1 Update on Summer Schools 2015
 - 4.2.1 Summer Schools 2016
 - 4.3 ECORD Scholarships 2015 and statistics (J. Gutiérrez-Pastor)
 - 4.4 ECORD Grants
 - 4.4.1 Awardees 2015 and statistics (J. Gutiérrez-Pastor)

- 4.5 Discussion of Grant awards criteria, procedure and ESSAC participation in rankings. (D. Weis)
 - 4.5.1 Need for an official evaluation committee?
 - 4.5.2 Need to increase individual award amounts? Fewer awards, more money?
- 4.6 Teachers at Sea (J. Gutiérrez-Pastor)
 - 4.6.1 Status of applications and participation
- 4.7 Upcoming E & O calls 2016 (J. Gutiérrez-Pastor)
- 5. Discussion of ESSAC Terms of Reference – (ESSAC Annex 4)** D. Weis and all (20 minutes)
- 6. Discussion of proposed ESSAC Budget 2016** D. Weis for J. Behrmann (20 minutes)
 - 6.1.1 Increased budget Items
 - 6.1.2 Other/new items
- 7. ECORD Websites** P. Maruejol (15 minutes)
- 8. Next meetings** D. Weis (20 minutes)
 - 8.1 Any outstanding issues for discussion during Joint ECORD/ESSAC meeting #3?
 - 8.2 ESSAC #6, May/June, 2016 – proposal Portugal?
- 9. Any other business** D. Weis (10 minutes)

Review of consensus, motions and action items will be carried out by email

Tuesday, 27 October 2015

Field trip: Campania – Lucania area, led by Paolo Scandone

An overview of tectonics and regional geology of the Southern Apennines

List of Participants

ESSAC Office

Julia Gutiérrez Pastor	ESSAC Science Coordinator
Dominique Weis (Meeting Chair)	ESSAC Delegate Canada

ESSAC Representatives

Andrea Argnani	ESSAC Delegate Italy
Georges Ceuleneer	ESSAC Delegate France
Kikki F. Kleiven	ESSAC Delegate Norway
Aarno Kotilainen	ESSAC Delegate Finland
Lucas Lourens	ESSAC Delegate Netherlands
Xavier Monteys	ESSAC Delegate Ireland
Antony Morris	ESSAC Delegate UK
Werner Piller	ESSAC Delegate Austria
Marit-Solveig Seidenkrantz	ESSAC Delegate Denmark
Rüdiger Stein	ESSAC Delegate Germany
Piotr Przewdziecki	ESSAC Alternate Poland
Antje Voelker	ESSAC Delegate Portugal
Nicolas Waldmann	ESSAC Delegate Israel
Jean-Pierre Henriët	ECORD Council Belgium
Thomas Andrén	ESSAC Representative Sweden
Flavio Anselmetti*	ESSAC Representative Switzerland

EMA/ESO/ Liaisons

Nadine Hallmann	EMA, CEREGE
Gilbert Camoin	EMA
Patricia Maruéjol	EMA
Ursula Röhl	ESO

Alternates/Observers / Guests:

Jochen Erbacher	ESSAC Alternate Germany
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Apologies

Gretchen Früh-Green (Chair)	ESSAC Delegate Switzerland
Jan Behrmann (Vice-Chair)	
Ian Snowball	ESSAC Delegate Sweden
David Van Rooij	ESSAC Delegate Belgium
Alan Stevenson	ESO

* Joint ECORD/ESSAC meeting only

LIST OF ACRONYMS

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

JOI	Joint Oceanographic Institutions
JR	JOIDES Resolution
JRFB	JOIDES Resolution Facility Board
LDEO	Lamont Doherty Earth Observatory
MEXT	Ministry of Education, Culture, Sports, Science & Technology (Japan)
MoU	Memorandum of Understanding
MOST	People's Republic of China Ministry Of Science and Technology
MSP	Mission-specific platform
NanTroSEIZE	Nankai Trough SEIsmogenic Zone Experiment
NERC	Natural Environment Research Council (UK)
NSF	National Science Foundation (USA)
NWO	Netherlands Organisation for Scientific Research
OD21	Ocean Drilling in the 21st Century (Japan)
ODP	Ocean Drilling Program
OEAW	Austrian Academy of Sciences
OGS	Istituto Nazionale di Oceanografia di Geofisica Sperimentale (Italy)
OTF	Operations Task Force
PEP	Proposal Evaluation Panel
SAS	Science Advisory Structure
SEP	Science Evaluation Panel
SNSF	Swiss National Science Foundation
SODV	Scientific Ocean Drilling Vessel
TAMU	Texas A & M University
ToR	Terms of Reference
USSAC	United States Science Advisory Committee
USSSP	United States Science Support Program
SVR	Swedish Research Council

See also <http://www.iodp.org/acronyms>

ESSAC subcommittee procedures

ESSAC has been structured in three subcommittees (Nominations and Staffing, 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 for presenting the activities of the subcommittee at the meetings. A general discussion follows that presentation.

Nominations and Staffing subcommittee

Members: Lucas Lourens (Coordinator, Neth), Gretchen Früh-Green (ESSAC Chair, CH), Dominique Weis (Can), Georges Ceuleneer (Fr), Antony Morris (UK), Ruediger Stein (Germ), Aarno Kotilainen (Fin), Antje Voelker (Por).

General tasks:

- Provide nominations of ECORD representatives (delegates and alternates) on science advisory panels, facility boards and other planning groups.
- Co-ordinate applications, review all the applications and suggest nominations of shipboard participants.
- Review quotas of shipboard scientists between participating countries.
- Provide co-chief nominations for IODP Expeditions.

Immediate actions:

- Evaluate the current ECORD composition of the Advisory Panels, identify future replacements (expertise), and suggest permanent alternates.
- Evaluate the quota balance of ECORD participation to IODP Expeditions.
- Review upcoming IODP Expeditions and provide names of potential co-chief candidates.

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), Andrea Argnani (I), Helga F. Kleiven (Nor), Werner Piller (Aus), Marit-Solveig Seidenkrantz (Dem), Ian Snowball (Swe), David Vaan Rooij (Bel), Szymon Uscinowicz (Pol).

General tasks:

- Develop educational opportunities/programs: Teacher's workshops, Summer Schools etc., especially for non-traditional audiences.
- Review Summer School proposals.
- Review applications and suggest nominations for ECORD scholarships.
- Initiate applications of speakers for the ECORD 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 ESSAC Chair

Dear ESSAC Delegates, ESSAC alternates, ECORD Council members, and attendees of the joint ESSAC and ECORD Meetings in Naples, 26-29 October 2015,

First of all, I would like to sincerely apologise that I will not personally be able to attend this meeting. As you all know, the dates of the meeting conflict with the sailing dates of Exp. 357 Atlantis Massif, on which I am co-chief scientist. Nevertheless, I wish you a successful meeting and thank you all for your support over the past year. As you also know, the ESSAC Office is finishing its term at the ETH Zurich and will soon move to GEOMAR in Kiel, Germany. Therefore, this will also be my last Letter as ESSAC Chair.

The ESSAC Office continues to be busy with education and outreach activities and staffing of expedition participants and panel members. This update of the most recent ESSAC activities will also be provided in the upcoming issue of the ECORD Newsletter #25, published in November 2015. We also hope you appreciate receiving the ESSAC News that Julia puts together at the beginning of each month. Here we would like to give an update on the status of ESSAC activities.

Expeditions: To date three IODP expeditions on the *JOIDES Resolution* have been completed in 2015 and by the end of October two expeditions – the *JR* Expedition 359 Maldives Monsoon and the offshore phase of MSP Expedition 357 Atlantis Massif Serpentinization and Life – will be underway. Staffing is also complete for the *JR* Southwest Indian Ridge Moho Expedition 360, which will start at the end of November 2015. A total of 59 scientists from ECORD member countries will participate in IODP expeditions in 2015, which includes five ECORD co-chiefs, three participants from special calls and three as a result of in-kind contributions for Exp. 357.

The selection of ECORD scientists to participate in two further *JR* Expeditions in 2016 has been completed: Exp. 361 South African Climates and Exp. 362 Sumatra Seismogenic Zone, each of which will include co-chief scientists from the UK. In addition, the nomination and selection process for *JR* Expeditions 363 Western Pacific Warm Pool and 366 Mariana Convergent Margin is in progress and staffing should be proceeding by the end of the year. Applicants for the expeditions have benefited from information provided by the webinars, which have become an integral part of the application process for all IODP expeditions.

Since our last ESSAC meeting in Uppsala, we have completed the application and staffing processes for the next MSP Expedition 364 Chicxulub Impact Crater, which will be operated by ESO and will be implemented in the spring of 2016, with Joanna Morgan (UK) and Sean Gulick (USA) as co-chief scientists. The expedition will include 13 ECORD scientists (from France, Germany, UK, Austria, Belgium, Canada and the Netherlands), four of which will participate in the offshore phase. A call for applications was also issued to participate in IODP Expedition 365 NanTroSEIZE Shallow Megasplay LTBMS onboard the *Chikyu* in the spring of 2016. In addition, we have issued a call for applications to sail on *JR* Expeditions 367 and 368 (CPPs) to drill the South China Sea Rifted Margin in 2017, and the deadline is 15 January 2016. We are pleased to be able to provide students and early career scientists the opportunity to participate in recent and future expeditions, which make up approximately 50% of the ECORD participants in 2015. A compilation of past and current staffing is given here as *ESSAC-Annex 1*, and is also included as Agenda Item 24 in the ECORD-ESSAC Agenda Book, pages 90-98, distributed by Nadine Hallmann. The country distribution and current quotas are given here as *ESSAC-Annex 2*, and can also be found on pages 99-100 in the ECORD-ESSAC Agenda Book. It is important to note that all upcoming *JOIDES Resolution* expeditions are contingent upon availability of funds. More information about the scientific objectives and dates of all expeditions can be found on the IODP website at <http://www.iodp.org/expeditions/>.

IODP Advisory Panel Members: Since the last JR Facility Board on 12-13 May 2015, Heiko Pälike has rotated off the board and Paul Wilson (University of Southampton) has been selected as the new member. ECORD has 8 members in the science subgroup and 5 members in the site survey subgroup of the *JOIDES Resolution* Facility (JRF) Science Evaluation Panel (SEP), which is responsible for evaluation of all IODP proposals. ESSAC has recently issued a call to replace out-going members in both subgroups; selection of the candidates is in progress and the new members will be announced soon. We will have 4 new members of the Science Evaluation Subgroup of SEP to replace Jörg Geldmacher, Verena Heuer, Lisa McNeill and Matt O'Regan, who are rotating off the panel. In addition, Mads Huuse, David Mosher and Gabrielle Unzelmann-Neben will be rotating off the Site Evaluation Subgroup. We would like to thank these members for their hard work and dedication in serving ECORD and IODP over the past years. We anticipate publishing the list of new members in upcoming ECORD Newsletter #25. In September of this year, Dick Kroon ended his term as co-chair of the Science Evaluation Subgroup of SEP. ESSAC would like to sincerely thank Dick for the many years of dedication and leadership in promoting new science in IODP. We will miss his enthusiasm and humour and wish him all the best for his future endeavours.

Education and Outreach: The **ECORD Distinguished Lecturer Programme (DLP)** continues to be a great success with five lectures that cover the major themes defined in the IODP Science Plan. The five ECORD Distinguished Lecturers, Christian France-Lanord, Gabriele Uenzelmann-Neben, Jens Kallmeyer, Antony Morris and Paola Vannucchi have scheduled or plan more than 40 lectures in 13 ECORD countries. (<http://www.essac.ecord.org/index.php?mod=education&page=dlp>; see also *ESSAC-Annex 3*).

Once again young scientists had the opportunity to participate in **ECORD Summer Schools** related to marine science research and ocean drilling, and in 2015, three Summer Schools were sponsored by ECORD (<http://www.essac.ecord.org/index.php?mod=education&page=summer-school>).

As in past years, ESSAC provided **ECORD Scholarships** to young scientists to attend one of these summer schools. ESSAC received 33 scholarship applications for the USSP and 23 applications for the Bremen summer school. At the last meeting in Uppsala, the ESSAC Education and Outreach Subcommittee chose to award 10 scholarships to attend the USSP and 16 scholarships to attend the ECORD Bremen Summer School (see <http://www.essac.ecord.org/index.php?mod=education&page=scholarships> for a list of awardees). In addition to the successful ECORD Training Course “Virtual Drillship”, we anticipate having three summer schools in 2016, which will include a new ECORD Summer School in Petrophysics. ESSAC will be issuing a new call for scholarships for these towards the end of the year:

- The Urbino Summer School in Paleoclimatology (USSP) on Past Global Change Reconstruction and Modelling Techniques, University of Urbino, Italy, July 2016;
- The ECORD Bremen Summer School 2016 – Submarine Geohazards: Mapping, Monitoring, and Modelling”, MARUM. Dates to be announced;
- **NEW!** ECORD Summer School: Petrophysics (physical properties of ocean sediments and basement from downhole logs and core), Department of Geology at the University of Leicester, UK. June-July 2016.

The ESSAC Education and Outreach Subcommittee also evaluated 13 applications from 6 ECORD countries for the **ECORD Research Grants** to support outstanding young scientists in IODP-related research. These short-term, merit-based awards contribute to travel and lab expenses and are particularly intended to support studies that promote new collaborations and/or the acquisition of new scientific expertise. Eight young researchers were chosen to receive awards. The recipients in 2015 and reports of previously awarded grants are also posted on the ESSAC webpage – <http://www.essac.ecord.org/index.php?mod=education&page=grants>. An important agenda item (4.5) of the separate ESSAC Meeting on Monday, the 26th of October, will be to discuss and more

clearly define selection criteria, procedure and participation of the ESSAC delegates in the ranking process.

As part of the **Teachers at Sea** programme, an initiative of the Consortium for Ocean Leadership, ESSAC is able to offer the unique opportunity for educators and outreach specialists of ECORD countries to sail as Education/Outreach Officers onboard the *JOIDES Resolution*. Diane Hanano (Canada) sailed on Exp. 354 (Bengal Fan), and following a call for applications in July, we are pleased to see that Michelle Darrieu (France/Belgium) is participating on Exp. 359 (Maldives Monsoon) and Marion Burgio (France) and Lucas Kavanagh (Canada) were selected for Exp. 360 (SW Indian Ridge Moho). We are looking forward to hearing about their experiences.

Further ESSAC-related activities this past year include the EGU 2015 General Assembly Meeting (12-17 April 2015), where a session entitled “Achievements and perspectives in scientific ocean and continental drilling” (co-organized SSP3.3/BG10/CL5/GMPV) was organised as part of the new Programme Subgroup SSP3.3 – Ocean and continental drilling. This session will be offered again at the EGU 2016 General Assembly Meeting (17-22 April 2016) and will be organised by Jan Behrmann as new ESSAC Chair. As has now become tradition at the EGU meetings, more information about ECORD, IODP and ICDP and possibilities to get involved were available at the IODP-ECORD-ICDP Scientific Drilling booth in the exhibit hall and at the IODP-ICDP Town Hall Meeting. The ESSAC Office will also participate in the ECORD-ICDP Scientific Drilling booth at the upcoming AGU Fall Meeting in San Francisco (14-18 December 2015).

In summary, ESSAC remains active in science support and outreach activities and in shaping the future of ocean research. This is the last contribution from me as ESSAC Chair – it has been a pleasure to serve ESSAC and run the ESSAC Office, and I appreciate the trust and support you all have given me over the past two years. I would particularly like to thank the ESSAC delegates and alternates for their active involvement in the numerous ranking and selection processes related to expeditions, panel membership, and education and outreach activities. Last but not least, in the name of all ECORD entities and members, I would like to sincerely thank Julia Gutiérrez-Pastor for her continuous dedication, guidance and hard work as Science Coordinator for ESSAC over the past four years and wish her all the best for the future.

I wish everyone a successful and pleasant meeting in Naples – and many thanks to Rüdiger Stein and Dominique Weis who will be taking over my duties! Also, best wishes and good luck to Jan Behrmann who will take over as new ESSAC Chair running the ESSAC Office at GEOMAR, Helmholtz Centre for Ocean Research Kiel in January 2016. I will see you next time at the ESSAC Meeting in the spring 2016.

Gretchen Früh-Green, ESSAC Chair, with the tremendous support of Julia Gutiérrez-Pastor, ESSAC Science Coordinator

1.1 Call to order, introductions

D. Weis will pass on the introductions.

1.2 Welcome and meeting logistics

The host will present information about the meeting logistics. Additional documents (such as maps, planes, hotels and transports) are provided in the ECORD-ESSAC Agenda.

I Logistical information

Joint ECORD/ESSAC Meeting #3 Napoli, 26-29 October 2015 Logistics

MEETING VENUE



Meeting venue: Castel dell'Ovo - via Eldorado n. 3, 80132 Napoli, along via Partenope - seafront area (see location maps).

Castel dell'Ovo is close to the Port of Naples and just a few minutes from Piazza Municipio - Molo Beverello, where the airport bus (Alibus) stops in front of the hydrofoil ticket booths (see location maps).

MEETING PROGRAM

- **ESSAC Meeting:** Monday, 26 Oct 2015, Castel dell'Ovo - Room "Antro di Virgilio": The room is located in the upper part of the castle and can be reached either by walking through the Castle ramp, or by two lifts. There will be signs to lead you to the meeting room.



- **Field Trip:** Tuesday, 27 Oct 2015 (preliminary planned for a tour of the Campania – Lucania area), led by Paolo Scandone, with easy walking, and an overview of tectonics and regional geology of the Southern Apennines, including Mesozoic deep-basin (Lagonegro) thrust units.
- **Joint ECORD/ESSAC Meeting:** Wednesday and Thursday, 28 & 29 Oct 2015, Castel dell'Ovo - Room "Antro di Virgilio".

1.3 Approval of the (1) agenda and (2) minutes from the 4th ESSAC meeting, Uppsala

D. Weis will summarize the current agenda and remark potential goals of the meeting and/or changes of the agenda.

ESSAC Minutes # 4: http://www.essac.ecord.org/meetings/ESSAC_Minutes_4.pdf

1.4 Review of consensus and action items from Uppsala ESSAC meeting #4

The list below contains the actions items, which arose at the 4th ESSAC meeting in Uppsala. Action items that have been accomplished by the ESSAC Office are labelled as “Done”. Action items not yet fulfilled are labelled “in progress” or “pending”. The complete list of consensus, motions and actions from the 3rd ESSAC meeting are listed in the *ESSAC Minutes 4*.

> **ESSAC Action Item 1505-01:** Prior to sending out ranking packages, the ESSAC Office will consult with the co-chiefs about details of required expertise and any other details of the expedition goals that may not be included in the expedition calls or summaries. *Done*.

> **ESSAC Action Item 1505-02:** The ESSAC Office shall standardize the acronyms used for countries to avoid confusion. *Done*.

> **ESSAC Action Item 1505-03:** The ESSAC Office shall contact the main proponents of the newly proposed ECORD Summer School in 2016 “Summer School in Petrophysics (physical properties of ocean sediments and basement from downhole logs and core)” in Leicester to have more details about the proposal (such as a detailed budget and amount requested, number of teachers, sources of funding, etc). This information will allow the ESSAC delegates to make a second evaluation of the proposal by email. *Done*.

> **ESSAC Action Item 1505-04:** After receiving more details about the organisation and budget of the 1st ECORD Summer School in Petrophysics, the ESSAC Office will initiate a discussion by email among the ESSAC delegates and/or or Education and Outreach Subcommittee to have the final approval for funding. *Done*.

> **ESSAC Action Item 1505-05:** ESSAC intends to request € 25,000 to the ECORD Council to fund ECORD Summer Schools 2016. *In Progress*. After email discussion, ESSAC will request € 30,000.

> **ESSAC Action Item 1505-06:** The ESSAC Office shall communicate to the applicants the outcome of the selection of the ECORD scholarships and grants. *Done*.

> **ESSAC Action Item 1505-07:** The ESSAC Office shall communicate the outcome of the selection of the ECORD Summer Schools 2016 to the main proponents of the proposals. *Done*.

> **ESSAC Action Item 1505-08:** The ESSAC Office shall create an online questionnaire for the students that attended the ECORD Summer Schools. The purpose is to get feedback about their degree of

satisfaction with the schools. The questions of this questionnaire should be circulated and approved by the ESSAC Education and Outreach Subcommittee. *Done.*

> **ESSAC Action Item 1505-09:** The ESSAC Office shall request a new budget from the main proponents of the ECORD Training School 2016 (Bremen) to clarify some inconsistency between the budget numbers and total amount requested. *Done.*

> **ESSAC Action Item 1505-10:** The ESSAC Chair shall communicate to ESO and the ECORD Council the wish to modernise the appearance, functionality and usability of the ECORD websites and to update the content to make them more user friendly, informative and attractive to the younger generations. *Done.*

> **ESSAC Action Item 1505-11:** The ESSAC Office shall include job descriptions for the IODP Expeditions in the “ECORD Guidelines for Applying to Sail” document that is posted on the ESSAC Website. *Done.*

> **ESSAC Action Item 1505-12:** In the interest of continuing good communication, the ESSAC Chair is requested to write a letter to EMA and the ECORD Council members to open discussions regarding the term of the ESSAC Chair, participation of EMA in ESSAC meetings, and participation and the role of the ESSAC Chair in VTF and ECORD Council meetings. A draft version shall be circulated by email and approved by the ESSAC delegates and alternates at the Uppsala ESSAC meeting. *Done.*

> **ESSAC Action Item 1505-13:** The ESSAC Chair shall circulate a new version of the ESSAC Terms of Reference (TOR) among the ESSAC delegates for final approval. These shall include responsibilities of the ESSAC Chair and ESSAC Science Coordinator. *Done.*

> **ESSAC Action Item 1505-14:** ESSAC shall identify potential ECORD scientists willing to lead and organise the IODP-ICDP Session “Achievements and perspectives in scientific ocean and continental drilling” of the Ocean and Continental Drilling subgroup of Stratigraphy, Sedimentology & Paleontology (SSP) at the annual EGU General Assembly (Vienna). *Done.* Jan Behrmann will organise the session.

> **ESSAC Action Item 1505-15:** The ESSAC Office shall contact Marco Sacchi as host of the next joint ESSAC/ECORD meeting (Naples) in October to request the possibility to change the order of dates for the ESSAC meeting and Fieldtrip (ESSAC meeting on the first day, Monday 26 October from 13:00 to 17:30, and the field trip on Tuesday 27 October). *Done.*

2. ESSAC Activities and News

2.1 ESSAC representatives and National Office reports / issues (ESSAC Delegates)

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:

ESSAC Delegates and Alternates		
Austria	Werner E. Piller	Michael Wagreich
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Finland	Aarno Kotilainen	Outti Hyttinen
	aarno.kotilainen@gtk.fi	Outi.hyttinen@helsinki.fi
France	Georges Ceulener	Anne Le Friant
	georges.ceulener@get.obs-mip.fr	lefriant@ipgp.fr
Germany	Ruediger Stein	Jochen Erbacher
	Ruediger.Stein@awi.de	j.erbacher@bgr.de
Ireland	Xavier Monteys	David Hardy
	Xavier.Monteys@gsi.ie	david.hardy@gsi.ie
Italy	Andrea Argnani	TBD
	andrea.argnani@ismar.cnr.it	
Israel	Nicolas Waldman	Sigal Abramovich
	nwaldmann@univ.haifa.ac.il	sigalabr@bgumail.bgu.ac.il
The Netherlands	Lucas Lourens	Stefan Schouten
	llourens@geo.uu.nl	stefan.schouten@nioz.nl
Norway	Helga F. Kleiven	Katrine Husum
	kikki@uib.no	katrine.husum@npolar.no
Poland	Szymon Uscinowicz	Piotr Przewdziecki
	szymon.uscinowicz@pgi.gov.pl	piotr.przewdziecki@pgi.gov.pl
Portugal	Antje Voelker	Cristina Veiga-Pires
	antje.voelker@ipma.pt	cvpires@ualg.pt

Sweden	Ian Snowball	Jorijntje Henderiks
	Ian.Snowball@geol.lu.se	jorijntje.henderiks@geo.uu.se
Switzerland (Chair)	Gretchen Früh-Green	Silvia Spezzaferri
	frueh-green@erdw.ethz.ch	silvia.spezzaferri@unifr.ch
U.K.	Anthony Morris	Bridget Wade
	A.Morris@plymouth.ac.uk	B.Wade@leeds.ac.uk

Vice-Chair: Jan-Hinrich Behrmann jbehrmann@geomar.de

3. Expeditions, Nominations and Staffing

D. Weis will report on Staffing

3.1 Staffing

3.1.1 Updates on expedition staffing and applications (ESSAC Annex 1)

3.1.2 Discussion – Quotas, CPPs, in-kind contributions (ESSAC Annex 2)

3.1.3 Upcoming deadlines

3.2 Update on advisory panel members and applications

D. Weis will give an update on SEP.

3.3 Upcoming calls for expeditions & panel members

D. Weis will present the upcoming calls for expedition and panel members.

4. Education and outreach – updates and outstanding issues

4.1 Update on status of DLP – scheduling, budget

J. Gutierrez-Pastor will update about the DLP program.

4.2 ECORD Summer Schools & Training Courses

J. Gutierrez-Pastor will report about the ECORD Summer Schools 2015, ECORD Courses 2015 and Summer School applications 2016.

4.2.1 Update on Summer Schools 2015

4.2.1 Summer Schools 2016

4.3 ECORD Scholarships 2015 and statistics

J. Gutierrez-Pastor will summarize the ECORD Scholarships 2015 applications and awardees.

4.4 ECORD Grants

J. Gutierrez-Pastor will summarize the ECORD Grants 2015 applications and awardees.

4.4.1 Awardees 2015 and statistics

4.5 Discussion of Grant awards criteria, procedure and ESSAC participation in rankings.

D. Weis will lead a discussion about ECORD Research Grants criteria, degree of participation in the ranking progress and possible change in the Grants budget.

4.5.1 Need for an official evaluation committee?

4.5.2 Need to increase individual award amounts? Fewer awards, more money?

4.6 Teachers at Sea

J. Gutierrez-Pastor will update about the Teachers at Sea program.

4.5.1 Status of applications and participation

4.7 Upcoming E & O calls 2016

J. Gutierrez-Pastor will present the upcoming E&O Calls.

5. Discussion of ESSAC Terms of Reference – (ESSAC Annex 4)

D. Weis will lead a discussion about the changes to the ESSAC Terms of Reference document.

6. Discussion of proposed ESSAC Budget 2016

D. Weis will present the ESSAC Budget 2016 for Jan Behrmann.

6.1.1 Increased budget Items

6.1.2 Other/new items

7. ECORD Websites

P. Maruejol will report about the renovation of the ECORD Websites.

8. Next meetings

D. Weis will ask to the delegates for any possible issue of discussion during the ECORD/ESSAC meeting #3. The location of the spring ESSAC meeting will be also discussed.

8.1 Any outstanding issues for discussion during Joint ECORD/ESSAC meeting #3?

8.2 ESSAC #6, May/June, 2016 – proposal Portugal?

9. Any other business

D. Weis will ask and summarize if there is any other business.

Masters and PhD Students

MCCARTHY, Anders (Switzerland, PhD) Igneous Petrologist

Teachers at Sea

FINGERLE, Markus (Germany) Withdrawn

Expedition 352: Izu Bonin Mariana: Fore Arc (30 July-30 September, 2014)

Co-chief Scientists: [Julian Pearce](#) (UK) & [Mark Reagan](#) (USA)

Senior Scientists

CARVALLO, Claire (France)	Paleomagnetist	
GODARD, Marguerite (France)	Inorganic Geochemist	
ALMEEV, Renat (Germany)	Physical Properties Specialist	
KUTTEROLF, Steffen (Germany)	Sedimentologist	
PRYTULAK, Julie (UK)	Petrologist	
ROBERTSON, Alastair (UK)	Sedimentologist	
KURZ, Walter (Austria)	Structural Geologist	Special Call

Post-doctoral Researchers and Early Career Scientists

KIRCHENBAUR, Maria (Germany, Post-doc) Inorganic Geochemist

Expedition 353: Indian Monsoon Rainfall (29 Nov 2014-29 January 2015)

Co-chief Scientists: [Steven Clemens](#) & [Wolfgang Kuhnt](#) (Germany)

Senior Scientists

MARTINEZ, Philippe (France)	Sedimentologist
ANAND, Pallavi (UK)	Physical Properties Specialist
ROMERO, Oscar (Germany)	Diatom Micropaleontologist

Post-doctoral Researchers and Early Career Scientists

BOLTON, Clara (France)	Nannofossil Micropaleontologist
HATHORNE, Ed (Germany)	Inorganic Geochemist
LITTLER, Kate (UK)	Sedimentologist
BARTOL, Milos (Sweden)	Nannofossil Micropaleontologist

RODRIGUEZ, Mathieu (France)	Physical Properties	Withdrawn
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Masters and PhD Students

TAYLOR, Samuel (France, PhD)	Paleomagnetist	
GARIBOLDI, Karen (Italy, PhD)	Diatom Micropaleontologist	Special Call

Teachers at Sea

FINGERLE, Markus (Germany)

Expedition 354: Bengal Fan (29 January-31 March 2015)

Co-chief Scientists: [Christian France-Lanord](#) (France) & [Volkhard Spiess](#) (Germany)

Senior Scientists

GALY, Albert (France)	Inorganic Geochemist	
HUYGHE, Pascale (France)	Sedimentologist	
MEYNADIER, Laura (France)	Paleomagnetist,	Special Call
WEBER, Michael (Germany)	Physical Properties Specialist	
NAJMAN, Yani (UK)	Sedimentologist	
CASTELLTORT, Sebastian (Switzerland)	Sedimentologist	Withdrawn

Post-doctoral Researchers and Early Career Scientists

ADHIKARI, Rishi Ram (Germany, Post-doc)	Organic Geochemist	
LANTZSCH, Hendrik (Germany, Res. assist.)	Sedimentologist (replacing Castelltort)	
ANTHONISSEN, Erik (Norway, Statoil)	Foraminifer Micropaleontologist	Declined

Masters and PhD Students

FOX, Lyndsey (UK, PhD)	Foraminifer Micropaleontologist
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Teachers at Sea

HANANO, Diane (Canada)

Expedition 355: Arabian Sea Monsoon (CPP) (31 March-31 May 2015)

Co-chief Scientists: [Dhananjai Pandey](#) & [Peter Clift](#)

Senior Scientists

BENDLE, James (UK)	Organic Geochemistry
ANDO, Sergio (Italy)	Sedimentologist

Post-doctoral Researchers and Early Career Scientists

STEINKE, Stephan (Germany, Post-doc)	Planktonic Foraminifers Micropaleontologist
HAHN, Annette (Germany, Post-doc)	Physical Properties Specialist

Masters and PhD Students

YU, Zhaojie (France, PhD)	Inorganic Geochemistry
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Expedition 356: Indonesian Throughflow (31 July-30 September 2015)

Co-chief Scientists: [Stephen Gallagher](#) & [Craig Fulthorpe](#)

Senior Scientists

HENDERIKS, Jorijntje (Sweden)	Nannofossil Micropaleontologist	
RENEMA, Willem (Netherlands)	Stratigraphic Correlator	
REUNING, Lars (Germany)	Sedimentologist	
LANGER, Martin (Germany)	Benthic Foram Micropaleontologist	Withdrawn

Post-doctoral Researchers and Early Career Scientists

GROENEVELD, Jeroen (Germany, Post-doc)	Planktonic Foram Micropaleontologist
PETRICK, Benjamin (UK, Post-doc)	Sedimentologist

Agenda Item 24: ESSAC: ECORD Expedition staffing and quotas

HIMMLER, Tobias (Germany, Post-doc)	Sedimentologist
DE VLEESCHOUWER, David (Germ, Post-doc)	Phys. Props/Downhole Measurements
BARANWALI, Soma (Norway, Post-doc)	Planktonic Foram Micropaleontologist

PhD Students:

AUER, Gerald (Austria, PhD)	Sedimentologist	
ANGUE MINTO'O, Charlie (France, Post-doc)	Benthic Foram Micropaleontologist	Declined

MSP Expedition 357: Atlantis Massif Serpentinization and Life October - December 2015

Co-chief Scientists: [Gretchen Fröh-Green](#) (Switzerland) and [Beth Orcutt](#)

Senior Scientists:

QUEMENEUR, Marianne (France)	Microbiology	Offshore & Onshore
MENEZ, Bénédicte (France)	Microbiology	Onshore
WEIS, Dominique (Canada)	Geochemistry	Onshore
CANNAT, Mathilde (France)	Igneous Petrology	Onshore
BOSCHI, Chiara (Italy)	Metamorphic Petrology	Onshore
BEHRMANN, Jan (Germany)	Structural Geology	Onshore
ESCARTIN, Javier (France)	Structural Geology/Physical Properties	Onshore

Post-Docs & Early Career Scientists:

ROUMEJON, Stephane (Switzerland)	Metamorphic Petrology	Onshore
SCHWARZENBACH, Esther (Germany)	Metamorphic Petrology	Onshore

PhD Students:

ZHAO, Rui (Norway)	Microbiology	Onshore
HESSE, Kirsten (Germany)	Igneous Petrology	Onshore
DUNKEL, Kristina (Norway)	Physical Properties	Onshore

In-Kind Contribution berths:

McCAIG, Andrew (UK) (Senior Scientist)	Structural Geology	Onshore
HARRIS, Michelle (UK) (Early Career)	Metamorphic Petrology	Onshore
BAYAKCI, Gaye (UK) (Early Career)	Physical Properties	Offshore & Onshore

Expedition 359: Maldives Monsoon 30 September - 30 November 2015

Co-chief Scientists: [Christian Betzler](#) (Germany) & [Gregor Eberli](#)

Senior Scientists

REIJIMER, John (The Netherlands)	Sedimentologist	
KROON, Dick (UK)	Foraminifer Micropaleontologist	
LÜDMANN, Thomas (Germany)	Petrophysics - Downhole Measurements	
LANCI, Luca (Italy)	Paleomagnetist	Special Call
YOUNG, Jeremy (UK)	Nannofossil Micropaleontologist	Special Call
CEDRIC John (UK)	Stratigraphic Correlator	Declined
WADE, Bridget (UK)	Foraminifer Micropaleontologist	Withdrawn

Post-doctoral Researchers and Early Career Scientists

HAFFEN, Sebastian (France)	Petrophysics - Physical Properties
BIALIK, Or (Israel)	Sedimentologist
ALONSO-GARCIA, Montserrat (Portugal)	Planktonic Foraminifer Micropaleontologist

Masters and PhD Students

REOLID PEREZ, Jesus (Germany)	Sedimentologist
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Teachers at Sea

DARRIEU, Michelle (France/Belgium)

**Expedition 360: SW Indian Ridge Lower Crust and Moho
30 November 2015 - 30 January 2016**

Co-chief Scientists: [Henry Dick](#) & [Christopher MacLeod](#) (UK)

Senior Scientists

KOEPKE, Jürgen (Germany)	Metamorphic Petrologist	accepted
TRIBUZIO, Riccardo (Italy)	Metamorphic Petrologist	accepted
ILDEFONSE, Benoit (France)	Structural Geologist	accepted
MORRIS, Anthony (UK)	Paleomagnetist	accepted

Post-doctoral Researchers and Early Career Scientists

FRANCE, Lyderic (France)	Igneous Petrologist	accepted
PLUMPER, Oliver (The Netherlands)	Structural Geologist	accepted

Masters and PhD Students

CIAZELA, Jakub (Poland)	Geochemist, Inorganic	accepted
FERRANDO, Carlotta (France)	Structural Geologist	accepted

Teachers at Sea

BURGIO, Marion (France)
KAVANAGH, Lucas (Canada)

**Expedition 361: Southern African Climates
(Agulhas Current Density Profile APL)**

30 January - 31 March 2016

Co-chief Scientists: [Ian Hall](#) (UK) and [Sidney Hemming](#)

Senior Scientists:

BARKER, Stephen (UK)	Stratigraphic Correlator	accepted
GRUETZNER, Jens (Germany)	Physical Properties	accepted

Post-Docs & Early Career Scientists:

CALEY, Thibaut (France)	Sedimentologist	accepted
CRESPIN, Julien (France)	Sedimentologist	accepted
KOUTSODENDRIS, Andreas (Germany)	Sedimentologist	accepted
JUST, Janna (Germany)	Paleomagnetist	accepted
SIMON, Margit (UK)	Benthic Foraminifer	accepted

PhD Students:

VAN DER LUBBE, Jeroen (Netherlands)	Sedimentologist	accepted
TANGUNAN, Deborah (Germany)	Nannofossil Micropaleontologist	Sp Call accepted

Expedition 362: Sumatra Seismogenic Zone

31 July - 30 September 2016

Co-chief Scientists: [Lisa McNeill](#) (UK) & [Brandon Dugan](#)

Senior Scientists:

PICKERING, Kevin (UK)	Core description/Sedimentologist	accepted
MOREAU, Julien (Denmark)	Core description/Sedimentologist	accepted
KUTTEROLF, Steffen (Germany)	Core description/Structural Geologist	accepted
HENSTOCK, Tim (UK)	Core-Log-Seismic Integr./Geophysicist	accepted
BACKMAN, Jan (Sweden)	Nannofossil Micropaleontologist	accepted
BOURLANGE, Sylvain (France)	Petrophysicist-Physical Properties	accepted

Post-Docs & Early Career Scientists:

POUDEROUX, Hugo (France)	Sedimentologist	accepted
HÜPERS, Andre (Germany)	Inorganic Geochemist	accepted

PhD Students:

MITCHISON, Freya (UK)	Diatom Specialist	Special Call accepted
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MSP Expedition 364: Chicxulub Impact Crater

April-May 2016

Co-Chief Scientists: Joanna Morgan (UK) and Sean Gulick

Senior Scientists:

CLAEYS, Philippe (Belgium)	Impact Petrology	Onshore
COCKELL, Charles (UK)	Microbiologist	Onshore & Offshore
OSINSKE, Gordon (Canada)	Microbiologist	Onshore
RILLER, Ulrich (Germany)	Structural Geology	Onshore
GEBHARDT, Catalina (Germany)	Physical Properties	Onshore
OCAMPO-TORRES, Ruben (France)	Organic Geochemistry	Onshore
SMIT, Jan (The Netherlands)	Paleontology	Onshore & Offshore

KENKMANN, Thomas (Germany)	Structural Geology	Declined
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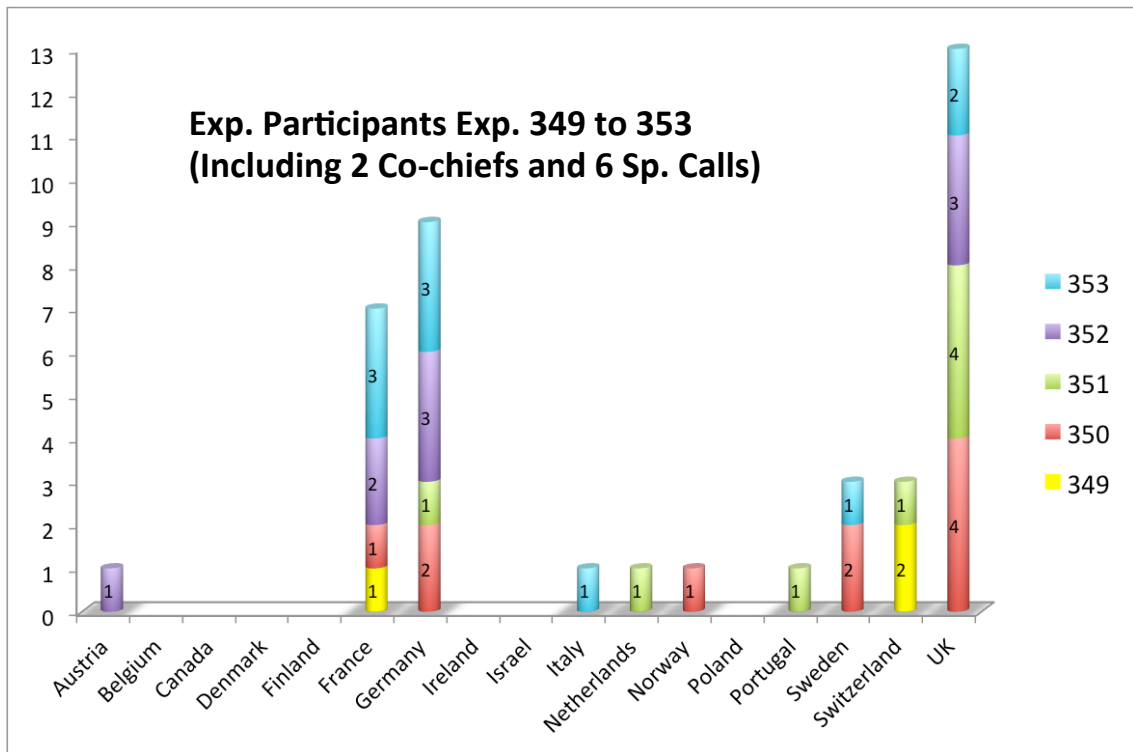
Post-Docs & Early Career Scientists:

FERRIÉRE, Ludovic (Austria)	Impact Petrology	Onshore
POELCHAU, Michael H. (Germany)	Structural Geology	Onshore & Offshore

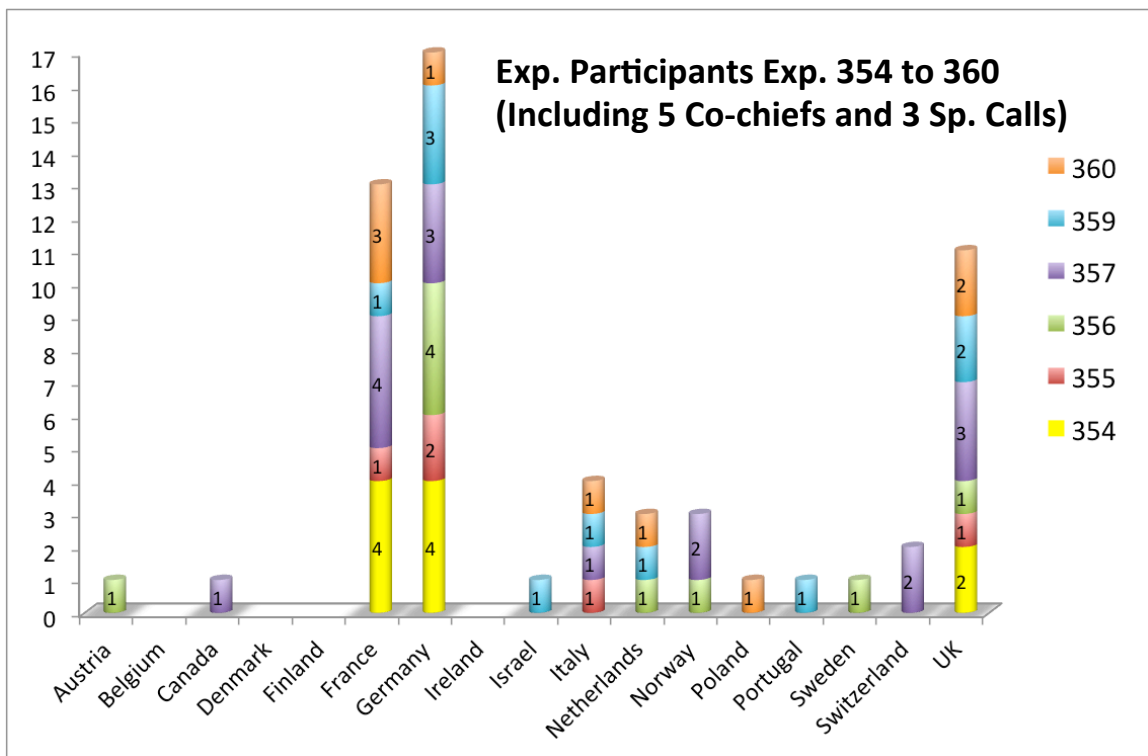
PhD Students:

PICKERSGIL, Annemarie E. (UK)	Inorganic Geochemistry	Onshore
ZYLBERMAN, William (France)	Paleomagnetism	Onshore
CHENOT, Elise (France)	Inorganic Geochemistry	Onshore
AURIOL, Rae (UK)	Geophysics and logging	Onshore & Offshore

2014



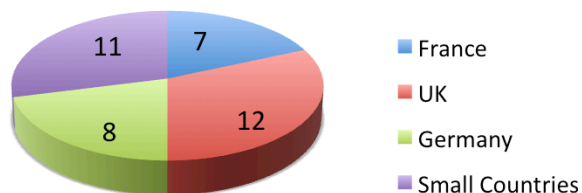
2015



2014

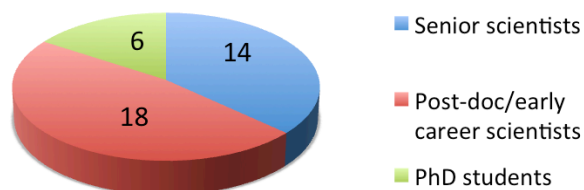
(Exp. 349, 350, 351, 352 & 353)

Exp. participants by country 2014



Including 6 Special Calls

Exp. participants by career stage 2014



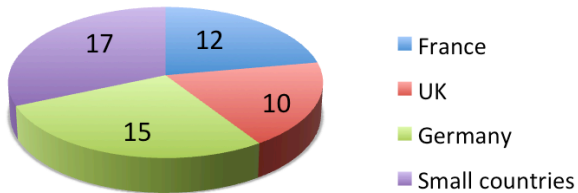
TOTAL: 38 plus 2 Co-chiefs

Exp.		Total participants	Special Calls & ECORD Co-chiefs
349	South China Sea (CPP)	3	1 Special Call CH
350	IBM: Rear Arc	10	3 Special Call: 1 Sweden, 2 UK
351	IBM: Arc Origins	8	1 Special Call Portugal
352	IBM Forearc	9	1 Co-chief UK, 1 Special Call Austria
353	Indian Monsoon Rainfall	10	1 Co-Chief Ger, 1 Special Call Italy

2015

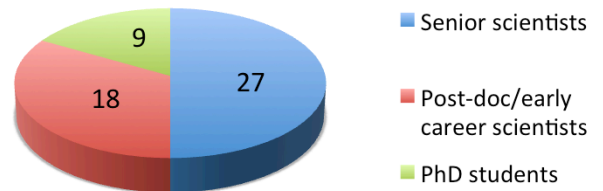
(Exp. 354, 355, 356, 357, 359 & 360)

Exp. participants by country 2015



Including 3 Special Calls & 3 in-kind contributions

Exp. participants by career stage 2015



TOTAL: 54 plus 5 Co-chiefs

Exp.		Total participants	Special Calls & ECORD Co-chiefs
354	Bengal Fan	10	2 Co-chiefs Fr and Ger, 1 Sp. Call Fr
355	Arabian Sea Monsoon (CPP)	5	
356	Indonesian Throughflow	9	
357	Atlantis Massif (MSP)	16	1 Co-chief CH, 3 IKC UK
359	Maldives Monsoon	10	1 Co-chief Ger, 2 Sp. Calls, It & UK
360	SW Indian Ridge	9	1 Co-chief UK

Participants in Expeditions in 2015 & Current Quotas

					Exp 354 Bengal Fan		Exp 355 Arabian Sea Monsoon CPP		Exp 356 Indonesian Flowthrough		MSP Exp 357 Atlantis Massif		Exp 359 Maldives Monsoon		Exp 360 Indian Ridge Moho		Co-chiefs FY 15	Quotas 2014 & 2015 (Exps 349 - 360)				
Member	Financial Contribution (%)	FY 2014 (\$ US)	FY 2015 (\$ US)	Total Contribution (\$ US)	Invited	Special Call	Invited	Special Call	Invited	Special Call	Invited	IKC	Invited	Special Call	Invited	Special Call		Total Berths invited	Total Berths special calls/IKC	Entitled berths - excl. sp. calls & Cc	Diff.	Total Sailed, incl. co-chiefs
France	25.96%	5,212,080	4,353,380	9,565,460	2	1	1				4		1		3		1	18	1	20.51	-2.51	20
Germany	30.39%	5,600,000	5,600,000	11,200,000	3		2		4		3		2		1		2	23	0	24.01	-1.01	26
UK	22.56%	4,296,400	4,016,470	8,312,870	2		1		1			3	1	1	1		1	16	6	17.82	-1.82	24
Sum	78.90%	15,108,480	13,969,850	29,078,330	7	1	4	0	5	0	7	3	4	1	5	0	4	57	7	62.33	-5.33	66
Austria	0.54%	100,000	100,000	200,000					1									1	1	0.43	0.57	2
Belgium	0.16%	30,000	28,100	58,100														0	0	0.12	-0.12	0
Canada	0.41%	75,000	75,000	150,000							1							1	0	0.32	0.68	1
Denmark	0.91%	184,000	150,200	334,200														0	0	0.72	-0.72	0
Finland	0.43%	80,000	80,000	160,000														0	0	0.34	-0.34	0
Iceland*	0.08%	30,000		30,000														0	0	0.06	-0.06	0
Ireland	0.78%	137,000	149,360	286,360														0	0	0.61	-0.61	0
Israel	0.16%	30,000	30,000	60,000									1					1	0	0.13	0.87	1
Italy	2.17%	400,000	400,000	800,000			1				1			1	1			3	2	1.71	1.29	5
Netherlands	2.71%	500,000	500,000	1,000,000					1				1		1			4	0	2.14	1.86	4
Norway	5.97%	1,100,000	1,100,000	2,200,000					1		2							4	0	4.72	-0.72	4
Poland	0.16%	30,000	30,000	60,000											1			1	0	0.13	0.87	1
Portugal	0.49%	90,000	90,000	180,000									1					1	1	0.39	0.61	2
Sweden	2.87%	528,000	528,000	1,056,000					1									3	1	2.26	0.74	4
Switzerland	3.26%	600,000	600,000	1,200,000							1					1		3	1	2.57	0.43	5
Sum	21.10%	3,914,000	3,860,660	7,774,660	0	0	1	0	4	0	5	0	3	1	3	0	1	22	6	16.67	5.33	28
* only 2014																						
TOTAL ECORD		19,022,480	17,830,510	36,852,990	7	1	5	0	9	0	12	3	7	2	8	0	5	79	13	79.00	0.00	94

Invited Participants in Expeditions in 2016 to date & Projected Quotas

				Quotas 2014 & 2015 (Exps 349 - 360)						Exp 361 S. African Climates		Exp 362 Sumatra Seismogenic Zone		MSP Exp 364 Chicxulub Impact Crater		Co- chiefs FY 16	Projected Quotas to Sept 2016 (Exps 349 - 362 & 364)					
Member	Financial Contribution (%)	FY 2014 (\$ US)	FY 2015 (\$ US)	Total Contribution (\$ US)	Total Berths invited	Total Berths special calls/IKC	Entitled berths - excl. sp. calls & Cc	Diff.	Total Sailed, incl. co- chiefs	Invited	Special Call	Invited	Special Call	Invited	Special Call		Total Berths invited	Total Berths special calls/IKC	Entitled berths - excl. sp. calls & Cc	Diff.	Total Sailed, incl. co- chiefs	
France	25.96%	5,212,080	4,353,380	9,565,460	18	1	20.51	-2.51	20	2		2		3			25	1	28.29	-3.29	27	
Germany	30.39%	5,600,000	5,600,000	11,200,000	23	0	24.01	-1.01	26	3	1	2		4			32	1	33.13	-1.13	36	
UK	22.56%	4,296,400	4,016,470	8,312,870	16	6	17.82	-1.82	24	2		2	1	3		3	23	7	24.59	-1.59	35	
Sum	78.90%	15,108,480	13,969,850	29,078,330	57	7	62.33	-5.33	66	7	1	6	1	10	0	3	80	9	86.00	-6.00	98	
Austria	0.54%	100,000	100,000	200,000	1	1	0.43	0.57	2					1			2	1	0.59	1.41	3	
Belgium	0.16%	30,000	28,100	58,100	0	0	0.12	-0.12	0					1			1	0	0.17	0.83	1	
Canada	0.41%	75,000	75,000	150,000	1	0	0.32	0.68	1					1			2	0	0.44	1.56	2	
Denmark	0.91%	184,000	150,200	334,200	0	0	0.72	-0.72	0			1					1	0	0.99	0.01	1	
Finland	0.43%	80,000	80,000	160,000	0	0	0.34	-0.34	0								0	0	0.47	-0.47	0	
Iceland*	0.08%	30,000		30,000	0	0	0.06	-0.06	0								0	0	0.09	-0.09	0	
Ireland	0.78%	137,000	149,360	286,360	0	0	0.61	-0.61	0								0	0	0.85	-0.85	0	
Israel	0.16%	30,000	30,000	60,000	1	0	0.13	0.87	1								1	0	0.18	0.82	1	
Italy	2.17%	400,000	400,000	800,000	3	2	1.71	1.29	5								3	2	2.37	0.63	5	
Netherlands	2.71%	500,000	500,000	1,000,000	4	0	2.14	1.86	4	1				1			6	0	2.96	3.04	6	
Norway	5.97%	1,100,000	1,100,000	2,200,000	4	0	4.72	-0.72	4								4	0	6.51	-2.51	4	
Poland	0.16%	30,000	30,000	60,000	1	0	0.13	0.87	1								1	0	0.18	0.82	1	
Portugal	0.49%	90,000	90,000	180,000	1	1	0.39	0.61	2								1	1	0.53	0.47	2	
Sweden	2.87%	528,000	528,000	1,056,000	3	1	2.26	0.74	4			1					4	1	3.12	0.88	5	
Switzerland	3.26%	600,000	600,000	1,200,000	3	1	2.57	0.43	5								3	1	3.55	-0.55	5	
Sum	21.10%	3,914,000	3,860,660	7,774,660	22	6	16.67	5.33	28	1	0	2	0	4	0	0	29	6	23.00	6.00	36	
TOTAL ECORD		19,022,480	17,830,510	36,852,990	79	13	79.00	0.00	94	8	1	8	1	14	0	3	109	15	109.00	0.00	126	

DLP Lectures 2015/2016

DLP SPEAKER	COUNTRY	INSTITUTION
C. FRANCE LANORD	F	ISTerre, Maison des Geoscience, Grenoble Cedex, Alexandra Gourland
	UK	University of Southampton & National Oceanography Centre, Christopher Pearce
	Turkey	IODP Day, Istanbul
	UK	St Andrew's Dept. of Earth and Environmental, UK, Timothy Hill
	UK	Newcastle University, Christian Maerz
	UK	University of Bristol, Stephan Lautenschlager
	UK	Imperial College London, Alex Whittaker
	FIN	University of Helsinki, Juha Karhu
J. KALLMEYER	C	University of Toronto, James Brenan
	C	Ottawa-Carleton Geoscience Centre (OCGC) and the Geological Survey of Canada, Christopher Lawley
	UK	Scottish Universities Environmental Research Centre (SUERC), Dan Barford
	UK	Newcastle University, Ian Head
	C	University of British Columbia, Sea Crowe
	Turkey	IODP Day, Istanbul
	DENM	Center for Geomicrobiology at Aarhus University, Denmark, Ian Marshall
	POR	Universities of Aveiro & Lisbon, Luis Pinehiro
	SWE	Uppsala University, Ian Snowball
A. MORRIS (plus DLP lecture ESSAC meeting Uppsala)	ETHIOPIA (decline)	Addis Ababa University, Ethiopia, Tesfaye Kidane
	F	Géosciences Montpellier, Benoit Ildefonse
	F	IPGS (Institut de Physique du Globe de Strasbourg), Sauter, Daniel
	GER	Leibniz University Hannover, Jürgen Koepeke
	GER	University of Bremen, Wolfgang Bach
	GER	Institute for geophysics and extraterrestrial physics, TU Braunschweig, Martin Neuhaus
	The Netherlands	Utrecht University, Marco Maffione
	C	University of Alberta, Canada, David Potter
G. UENZELMANN (plus DLP lecture ESSAC meeting Naples)	F	University of Perpignan, Serge Berne
	GER	Universität Heidelberg, Oliver Friedrich
	UK	University College London, Bridget Wade
	UK	University of Leicester, Sally Morgan
	UK	Department of Geography at Northumbria, Vasile Ersek
	UK	University of Hull, UK, Rebecca Williams
	POR	University of Lisbon, Fatima Abrantes
P. VANNUCCHI	UK	University of Exeter, Alastair Graham
	AUS	University of Graz, Walter Kurz
	C	University of Victoria, Laurence Coogan
	F	Géosciences Montpellier, Benoit Ildefonse
	IS	Haifa and Ben Gurion Universities, Nicolas Waldmann
	IT	University of Modena e Reggio Emilia, Francesca Remitti
	UK	Durham University, Richard Hobbs
	UK	Plymouth University, Antony Morris
	Turkey	IODP Day, Istanbul
	F	Institut de Physique du Globe de Paris, Equipe Géosciences Marines, Catherine Mevel
	BEL	Ghent University, Davi Van Rooij
	UK	British Geological Survey, Nottingham, Melanie J. Leng
	F	Géosciences Rennes at the University of Rennes, Benjamin Guillaume
	GER	GEOMAR, Michael Sipp

Total Lectures
46

Total Lectures
for 2016: 12

- 6 UK
- 1 FIN
- 1 SWE
- 1 CAN
- 1 BEL
- 1 F
- 1 GERM

	Lectures completed
	Lectures in 2016
	Lectures to be done before January 2016

7 – ESSAC: Procedures and ToRs (R. Stein)

At the ESSAC meeting on the 18th and 19th of May in Uppsala, the ESSAC delegates discussed changes to the ESSAC Terms of Reference (ToR) and the need to continue good communication between EMA, the ECORD Council and ESSAC. The ESSAC delegates are of the opinion that good communication and interaction between ECORD, EMA and ESSAC are best maintained through representation at the various ECORD meetings. Therefore, ESSAC would like to encourage the EMA Director or Assistant Director to attend ESSAC meetings whenever possible. Similarly, ESSAC requests that the ESSAC Chair or Vice-Chair shall be invited to all ECORD Council Meetings (as a non-voting liaison) and receives the minutes of the ECORD Council meetings.

ESSAC also requests approval of the revised version of the Terms of Reference, which is given in the following document. In addition to updating references to the IODP advisory panels and specifying flexibility in the term of office for the ESSAC Chair, the revised ESSAC ToR explicitly defines the responsibilities of the ESSAC Chair and the ESSAC Science Coordinator. Having these responsibilities defined in the ToR may be particularly beneficial if the incoming chair has not previously been a member of ESSAC.

European Consortium for Ocean Research Drilling (ECORD)

ECORD Science Support and Advisory Committee (ESSAC) Terms of Reference

(revised June 2015)

- **Representation**

The ECORD Science Support and Advisory Committee (ESSAC) consists of a national delegate and an alternate from each participating country in the European Consortium for Ocean Research Drilling (ECORD), appointed by the respective Member Organization(s). Alternates can attend, in addition to delegates, as non-voting members. Additional non-voting representation may be invited on an ad hoc basis. Terms of office of the committee members will be reviewed every three years. A three-year rotation is recommended where possible, and no more than one-third of the membership should be replaced in a given year. The first rotation review will be in 2016 after an appointment of 3 years. Terms of office will normally begin in January of any given year.

- **Chair and Vice-Chair**

A Chair and Vice-Chair shall be appointed by the Executive Bureau and approved by the ECORD Council following an open call, review of applications, and nominations by ESSAC. The Chair is responsible for reporting to the ECORD Council and liaising with the ECORD Managing Agency (EMA) and ECORD Science Operator (ESO). The incoming Chair will serve one year as Vice-Chair followed by two years as Chair and rotates off as Vice-Chair during the fourth year. An optional third year as Chair may be considered after discussions between the ECORD Council and ESSAC, and after regulation of the duration of the term of the incoming and outgoing Vice-Chairs. The Chair cannot serve two consecutive terms and consecutive terms in the same host country should be avoided.

ESSAC is represented on the ECORD Facility Board either by the ESSAC Chair or the Vice-Chair. In addition, the ESSAC Chair will act as chair of the Vision Task Force organized by EMA.

- **Division of membership benefits**

The IODP-assigned quota of expedition participants granted to ECORD shall reflect the financial contributions of each member country and specific interests of each participating country. ESSAC, in consultation with EMA, shall annually review the distribution effective as of 1 October 2014 and make recommendations in view of the target ratio and specific drilling interests.

The delegates and alternates on IODP Science Advisory Panels and the ECORD Facility Board shall be designated by ESSAC after an open call and recommendations from national offices, and shall be approved by the ECORD Council and the *JOIDES* Resolution Facility Board. IODP panel membership shall reflect the financial contribution of each participating country over a rolling three-year period. In the normal case, all ECORD

representatives on the IODP advisory panels shall serve for a three-year period and may not be re-appointed for a second consecutive term.

- **Obligations of the ESSAC delegates**

- To ensure that all ESSAC and joint ECORD meetings are attended by the delegates or by their alternates. If neither can participate, the relevant committee shall be informed and, if possible, a substitute nominated.
- To actively participate in the evaluation process of applications and selection of candidates for IODP Expeditions, ECORD Scholarships, ECORD Grants, DLP lectures and members of IODP and ECORD advisory panels.
- To ensure that the scientific interests of ECORD as a whole are represented by whoever attends the IODP advisory panel meetings on behalf of ECORD.
- To ensure that the minutes of ESSAC meetings are distributed to the national alternates and national ECORD representatives.
- To attend ECORD workshops and to report to ESSAC when requested.
- To provide information to interested parties within the national scientific communities of each ESSAC member country and to advise on national regulations and policies.

- **Voting**

A quorum is required before decisions can be taken. There is no power of attorney for absent members. A quorum requires the presence of a majority of the members. Where possible ESSAC shall proceed by consensus; if this is impossible, there shall be a majority vote. Each delegate present has one vote and the Chair has a casting vote. If no decision is reached, the issue shall be passed to the ECORD Council.

- **Secretariat**

The ESSAC Office shall be funded from the budget of EMA, after approval by the ECORD Council. The Office shall rotate, on a two-year basis, with the Chair of ESSAC. The budget shall be sufficient to provide salary for a Science Coordinator with a scientific background, the full cost of maintaining an office and resources to compensate the Chair.

- **Tasks**

ESSAC is responsible for the scientific planning and coordination of Europe's contribution to and participation in IODP. The main purpose of ESSAC is to maximize ECORD's scientific and technological contribution to IODP.

ESSAC is responsible for:

- Advising ECORD funding organisations and ECORD Council members on IODP issues.
- Coordinating expedition applications, nominating shipboard participants and reviewing quotas of shipboard scientists between participating countries.
- Reporting to the ECORD Council.
- Liaising with EMA and ESO.
- Interacting with the appropriate IODP bodies, in particular the IODP scientific bodies.

- Coordinating ECORD Training, Education and Outreach Programmes, through the evaluation of applications and the funding of ECORD Grants, ECORD Schools, ECORD Scholarships, Teachers/Educators at Sea and the Distinguished Lecturer Programme.
- Evaluating applications and nominating scientists to participate in the ECORD Facility Board.
- Nominating representatives (delegates and alternates) on IODP advisory panels.
- Responding to the ECORD Council on requests for evaluation of its activities and initiation of evaluations of the ECORD scientific input to IODP.
- Assisting and advising EMA on extending the scientific community of the consortium to non-member countries.
- Initiating and monitoring workshops on specific scientific themes and syntheses of European IODP programs.
- Assisting and advising EMA on the formulation of proposals for funding European related infrastructure.
- Providing stimulation and guidance for the writing of drilling proposals in accordance with the IODP Science Plan and encourage IODP-related activities among participating countries.
- Encouraging (a) innovative science and technology development, and (b) the formulation of long-term integrated IODP studies.
- Assisting and advising EMA and ESO on public outreach.

The ESSAC Chair represents and supports ESSAC in all ECORD and IODP activities. It is the responsibility of the ESSAC Chair to:

- Manage the ESSAC Office.
- Oversee and manage ESSAC's scientific activities, including scientific planning, evaluation and staffing of IODP expeditions, and evaluation and nominations of ECORD panel members.
- Oversee and coordinate educational activities and participation in defining strategies for ECORD science, funding and technology.
- Communicate with and advise IODP program managing and support offices regarding nomination and staffing of expeditions and coordination of education and outreach activities.
- Oversee quotas and maintain country balance for IODP expeditions and panel members and participants of education and outreach activities.
- Liaise with the ECORD Council, EMA and ESO.
- Report to the ECORD Council.
- Organise and chair the meetings of ESSAC.
- Attend meetings of the ECORD Executive Bureau, ECORD Council and the ECORD Facility Board and provide advice on ECORD science priorities and long-term scientific planning in accordance with the IODP Science Plan.
- Chair the ECORD Vision Task Force and assist in ECORD's scientific strategy.
- Represent ESSAC at other IODP meetings, such as the JR Facility Board and IODP Forum meetings, or arrange for an appropriate alternate.
- Inform the ESSAC delegates of ECORD and IODP activities and decisions.
- Provide contributions to ECORD Newsletters and ECORD Annual Reports.
- Ensure that an IODP-ECORD/ICDP session is organised at the EGU General Assembly meetings.

The ESSAC Science Coordinator shall assist the ESSAC Chair in running the ESSAC Office and is responsible for:

- The day-to-day administration of the ESSAC Office and communication with ESSAC delegates and the wider IODP science community.
- Coordinating, preparing, distributing and posting “Calls for Applications” to participate in IODP expeditions, IODP advisory panels and ECORD education and outreach activities (ECORD Research Grants, ECORD Summer Schools, ECORD Scholarships and the Distinguished Lecture Program, opportunities for teachers/educators at sea)
- Distributing other relevant information and announcements through the ESSAC mailing list and social media platforms.
- Receiving, compiling and archiving applications for all science, education and outreach activities. Distribute application lists and compile rankings and participant information received from the ESSAC national delegates.
- Maintaining and updating the ESSAC website (including Facebook)
- Supporting the scientific community and the IODP National Offices.
- Coordinating ECORD Education & Outreach activities, attending ECORD Education & Outreach Task Force meetings, and participating in outreach activities at international meetings (e.g., EGU).
- Planning and assisting in the ESSAC meetings. Preparing the Agenda Book and minutes of these meetings.
- Providing contributions for the ECORD Annual Report and ECORD Newsletter.

- **Proceedings**

ESSAC shall meet twice a year, or at the request of one-fourth of the members, the ECORD Council, or the ESSAC Chair. Fall meetings will usually be joint meetings with the ECORD Council and spring meetings shall be dedicated to planning and discussion of ESSAC activities. Liaisons from EMA and ESO are invited to attend the ESSAC meetings.

The normal agenda shall include:

- Reports from EMA and ESO.
- Reports from recent IODP advisory panel or facility board meetings.
- Staffing nominations, progress and evaluation.
- Update and planning of Education and Outreach activities
- Reports from completed expeditions.
- Any other tasks.

ESSAC can implement working groups and define their terms of reference.