



Education and Outreach Task Force Meeting (#4)

7-8 October, 2013, Paris

Agenda - Draft

Catherine Mével (IPG-Paris) is our host and the meeting will be held for one and a half day at the Institut de Physique du Globe de Paris. We will start on Monday October 7 at 14:00 and end on Tuesday October afternoon.

In preparation of the IODP press conference to be held on Wednesday, October 9 at 9:30 am we will welcome the speakers on Tuesday afternoon and discuss details of their participation in the press conference.

Venue: Institut de Physique du Globe de Paris, 1 rue Jussieu, 75005 Paris

<http://www.ipgp.fr/pages/1308.php> (see logistics page 3)

Logistics/accomodation are detailed on page 3.

Participants:

ECORD Outreach Team: Albert Gerdes, Alan Stevenson, Julia Gutierrez Pastor and Patricia Maruéjol

Carlota Escutia, Gretchen Früh-Green, Milena Borissova, Gilbert Camoin

Guests (Tuesday afternoon): Keir Becker

1) Welcome (Patricia)

2) Actions from the last meeting (Patricia, All)

Actions from the Salamanca meeting will be distributed later

3) Recent IODP-ECORD meetings/events (10' each presentation)

- Review of ECORD outreach activities held since February 2013 (EGU 2013, Goldschmidt 2013, press conference of the Baltic Expedition, etc.) (Patricia, Alan, Albert, Julia) and interactions with new ECORD entities (ECORD-ILP, ECORD-FB and VTF)
- EMA News (Gilbert, Milena) -15'
- ESSAC meeting #20, Gdansk (Carlota, Julia) - 15'
- ESO News (Alan, Albert) other than outreach - 15'

4) Upcoming ECORD/IODP activities (FY14)

- IODP press conference, CNRS Headquarters, Paris, October 9, 2013 at 9:30
- 3P Arctic, October 15-18, 2013, Stavanger, <http://www.3parctic.com/>
- AGU 2013
- EGU 2014, April 27 – May 2, 2014, Vienna <http://www.egu2014.eu/>
- IAG 2014, Geneva
- Other conferences: Goldschmidt 2014 (Sacramento)?
- IODP portcalls
- National IODP days

6) ECORD publications/resources

- New releases: ECORD Newsletter #20, ECORD, ESSAC and EPC flyers, Baltic leaflet
- To be released: Newsletter October 2013 - *see draft page 4*, ECORD Calendar 2014, ECORD Annual Report 2013 (February 2013)
- Others: update of the Arctic brochure (ECORD-ILP)?
- For the next programme: ECORD folder and flyers
- Core replicas and goodies
- IODP book? -> ECORD highlights to be published in 2014 (for general public)

7) ECORD websites

- Updates and traffic (Patricia, Alan, Julia)
- ECORD-ICDP MagellanPlus online: information and reports
- ECORD photo gallery (Patricia, Alan)
- ECORD on social networks and Wikipedia <http://en.wikipedia.org/wiki/ECORD> and

8) Education (Carlota, Julia)

- ECORD DLP 2013
- ECORD Summer Schools / Scholarships 2014 – Possible links with EC Marie Curie Actions
- Education/outreach berths on IODP expeditions: Feedback from teachers onboard IODP expeditions

9) ECORD Outreach in the new phase (All)

- Interactions with the IODP Forum and Support Office
 - » Need for brand standards, editorial style guide?
 - » *Scientific Drilling*
- Interactions with other science programmes - ICDP: Scientific Drilling, MagellanPlus, joint booths

10) Next outreach meeting:

- late January 2014, during the OSP of the Baltic Sea expedition in Bremen
- early-mid February 2014, in Zurich, Nancy or Edinburgh
- other options?

IODP Press Conference

To launch the new IODP, a press conference is organised by ECORD and CNRS on **Wednesday October 9 at 9:30am** at CNRS Headquarters, 3 rue Michel Ange, Paris 16th. Gilbert, Keir Becker, Bob and Carlota will give short presentations and Albert will be the moderator. You will find more details on page 5 and online at http://www.ecord.org/p/IODP-press_conference.html.

Venue (*more information about the room will be provided by the CNRS press office*)

Headquarters Centre National de la Recherche Scientifique
3 rue Michel Ange, 75016 Paris, France
<http://www.cnrs.fr/paris-michel-ange/spip.php?article751>

How to get there?

About 30 minutes from the Hotel Saint Christophe with metro line 10 -> Boulogne and stop at Michel Ange Auteuil.

Logisitics

Meeting dates: from Monday, October 7 at 14:00 until Tuesday October 8, 2013 at 17:00



Meeting venue: Room 3000 at Institut de Physique du Globe in Paris (IPGP), 1 rue Jussieu, Paris 5th - <http://www.ipgp.fr/pages/1308.php>
When you enter in the building, please stop at the desk and tell you attend the ECORD Outreach meeting in room 3000. People at the desk will call Catherine to let you enter the lab.
In case of problem, please call me on my mobile: +337 77 22 35 09

Access from CDG Airport: take RER B -> Robinson - Saint Rémy lès Chevreuse, stop at **Châtelet-les-Halles**, change to Metro line 7 (-> Villejuif) and stop at **Jussieu**.

Accommodation: a block of **8 single rooms** have been pre-booked at Hotel Saint Christophe, five-minute walking from the meeting place, from October 6 to 9 (3 nights) at 105 euros/night breakfast included. Please make you own hotel reservation by sending email with **booking code ECORD-CNRS** and including your credit card details to the hotel before **September 21**.

Hôtel Saint Christophe
17 rue Lapepède
75005 - PARIS
saintchristophe@wanadoo.fr
Tél: +33.(0)1.43.31.81.54
Fax: +33.(0)1.43.31.12.54
<http://www.saint-christophe-hotel.com/uk/index.php>

Access from CDG Airport: take RER B -> Robinson - Saint Rémy lès Chevreuse, stop at Châtelet-les-Halles, change to Metro line 7 (-> Villejuif) and stop at **Place Monge**.

A dinner will be organised on Tuesday, October 8 with Catherine Mével.

ECORD Newsletter, October 2013 - Draft

Deadlines:

- Call for author's contributions: early September, 2013
- Authors' deadline; **October 11, 2013**
- Release: late October 2013 – early November (ESSAC and ECORD Council meetings in Haifa)

Front cover: photo of the Baltic Sea expedition +new logo IODP

Message from the Council Chair (Mike Webb) ½ page

EMA (Gilbert, Milena) – 2 pages

New IODP, what is going to change, actions to be taken, IODP Forum including Keir's bio, status of MoUs, report of the visit in Russia.

ECORD Facility Board (Kartsen Gohl) – 1 page

ESO News - Alan to contact Bob, Dave, Carol, etc. – 3-4 pages

ECORD Outreach and Education Activities - 3 pages

- News: EGU 2013, JR portcall in Victoria, Goldschmidt 2013, 3P Arctic? Press conferences (Baltic, IODP), ECORD media coverage (Baltic press conference)
- Upcoming activities: AGU 2013
- Report of ECORD Summer Schools 2013 + USSP video (Dan Brinkhuis)
- Report of School of Rock 2013 by Canadian teachers

ESSAC Updates (Carlota, Julia, Gretchen) - 4 pages

- News + table of IODP scheduled expeditions
- Recently published articles
- Tables of ESSAC and ECORD-SAS delegates
- Report of ECORD Grants: Genske (volcanic plateaus), Lafuerza (Exp 340) **agreed**
- MagellanPlus: Cretaceous
- Status of the DLPs

Highlight of a proposal at OTF with ECORD Lead Proponent - 1 page

#778 – Tanzania Offshore Paleoclimate (TOP) (Bridget Wade) -

Workshop announcements and reports (Julia)

Reports of the Magellan+ workshops

- "Cretaceous Ocean Dynamics through Scientific Drilling" held on 15-17/4/13 in London – Julia contacted Stuart Robinson
- Deep-sea Record of Mediterranean Messinian Events (DREAM) – Julia to contact the convenors
- Other reports related to ECORD/IODP workshops/conferences (Chikyu +10)

Science article: The IODP Deep Biosphere – Beth Orcutt - **agreed**

In relation with the IODP workshop and session at the Goldschmidt and recent/current IODP expeditions

"News from ECORD member countries": Patricia to contact Council and ESSAC delegates Canada, Switzerland, Sweden, Spain, **agreed**

Back cover: Photo + ECORD Contacts (possibly a new map with Israel??)

September 11th, 2013

INVITATION

Discovering our Oceans – entering a new phase of ocean research drilling with the International Ocean Discovery Program IODP

Dear Journalist,

On October 1st 2013, the International Ocean Discovery Program (IODP), one of the major marine research programmes worldwide, will be launched. IODP is a ten-year, science-driven programme addressing fundamental and applied geo-scientific issues. Over the next decade (2013-2023), a new chapter of scientific ocean drilling, which began forty-five years ago, will be written. Since 2003, the European Consortium for Ocean Research Drilling (ECORD) represents the European part of IODP and carries out sea-going expeditions to fulfil the scientific goals of IODP.

During an international media conference we would like to inform you about the challenges and opportunities of the new phase of ocean drilling and provide an update on the currently on-going Baltic Sea expedition. You are kindly invited to take part in a

Media conference:

October 9th, 2013, 9:30 am,

Headquarters Centre National de la Recherche Scientifique

3 rue Michel Ange, 75016 Paris, France -

(Directions : <http://www.cnrs.fr/paris-michel-ange/spip.php?article751>)

On the podium:

Keir Becker, Chair of IODP: Entering a new era of ocean drilling

Gilbert Camoin, Director of ECORD: Latest Baltic news & Europe's role within IODP

Robert Gatliff, Chair of the ECORD Science Operator: Technologies & tools

Carlota Escutia, Chair of the ECORD Science Committee: IODP opportunities for educating international scientists

Background information can be downloaded from http://www.ecord.org/p/IODP-press_conference.html and will be distributed during the event (video footage, etc.).

There will also be time for background talks and interviews with the scientists.

Language: the conference will be held in English with translations into French where necessary.

We are looking forward to meeting you. Best regards,

On behalf of ECORD, Patricia Maruéjol and Albert Gerdes
agerdes@marum.de / maruejol@crpg.cnrs-nancy.fr

On behalf of CNRS, Christiane Grappin and Priscilla Dacher
christiane.grappin@cnrs-dir.fr / p.dacher@cnrs-dir.fr

October 9th, 2013

MEDIA RELEASE

Discovering our Oceans A New Era of Ocean Research Drilling Has Started

During the past decades the findings of scientific ocean drilling expeditions have fundamentally changed the way we look at our blue planet. Today we understand much better how processes like earthquakes and tsunamis develop; thanks to ocean drilling the plate tectonics theory was proven and we know much about climate change and the limits of life deep down below the seafloor. However, many more issues remain to be solved. That is why on October 1st a new era of ocean research drilling has started: During the next decade the International Ocean Discovery Program (IODP) will focus on scientific challenges that are of immediate interest to society.

During an international media conference that was held in Paris today, leading IODP scientists presented the new research programme, which was launched on October 1st. "The International Ocean Discovery Program is a major geo-scientific research programme devoted to explore the earth beneath the oceans, which cover more than two thirds of our planet", says Dr. Keir Becker, a marine geologist at the University of Miami (USA) and Chair of the IODP Forum. "With modern drilling vessels equipped with cutting-edge research technologies we shall focus on four research themes: Climate and ocean change, the limits of life below the seafloor, processes deep within the Earth and their impacts on Earth's surface, and processes causing hazards on human time scales."

The International Ocean Discovery Program will build on experience that has been gained in preceding programmes such as the Integrated Ocean Drilling Program (2003-2013). Like in the last decade of ocean drilling, the new IODP brings together scientists from the US, Japan, Europe and Canada and associate members (China, South Korea, Australia, India and Brazil). It is a truly international and interdisciplinary, worldwide programme.

"Europe plays an important and very special role within IODP", Dr. Gilbert Camoin, a marine geologist based at CEREGE-CNRS (France) and Director of the ECORD Managing Agency, pointed out during the press conference.

Currently 17 European countries and Canada are united under the umbrella of the European Consortium for Ocean Research Drilling (ECORD).

“ECORD aims at organising one expedition annually”, adds Dr. Camoin. “These expeditions will be special in that we shall explore ocean regions where the US and the Japanese drilling vessels, *JOIDES Resolution* and *Chikyu*, cannot operate, for example in the ice-bound Arctic and Antarctic waters. These regions play a major role in global climate change. However, there is a lack of data because until now only very few drilling expeditions could be carried out in these hostile regions.”

“Scientific drilling proposals arising from the scientific community are the essence of the IODP”, says Dr. Carlota Escutia, a senior researcher at the Spanish Research Council and Chair of ECORD’s Science Committee. Apart from the scientific challenges, the new era of ocean research drilling offers great opportunities both for experienced and younger scientists. European scientists and Canadian scientists are entitled to work on the Japanese and US drilling vessels likewise US and Japanese scientists will take part in ECORD-led expeditions. Younger scientists especially will be able to train with colleagues from other disciplines, countries and cultures at a very early stage of their career.”

Information about IODP and ECORD can be found at:

<http://www.iodp.org>

<http://www.ecord.org>

http://www.ecord.org/p/IODP-press_conference.html

More information / images / videos / interviews:

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“Discovering our Oceans – entering a new phase of research drilling with the International Ocean Discovery Program (IODP)”

Your interview partners:

Dr. Keir Becker

Ph.D. 1981, Scripps Institution of Oceanography, USA

Professor of Marine Geology & Geophysics, Rosenstiel School of Marine & Atmospheric Science, University of Miami

Becker's research interests focus on sub-seafloor hydrogeology. Starting in 1979, he has sailed on 20 legs or expeditions of DSDP, ODP, and IODP, more than any other scientist in the world. In 1989, he was Co-originator of the ODP/IODP “CORK” long-term borehole hydrogeological observatories. He has served twice as Chairman of the primary ODP or IODP science planning committees, the ODP Science Committee (2001-2003) and the IODP Science Planning Committee (2005-2007). As we begin the new International Ocean Discovery Program, he has just begun a two-year term as Chairman of the overarching IODP Forum.

Dr. Gilbert Camoin

PhD. 1989, Université de Provence, France

Senior research scientist and currently Directeur de recherche at Centre de Recherches et d'Enseignement en Géosciences de l'Environnement (CEREGE-CNRS) in Aix-en-Provence, France.

Camoin's major scientific interests focus on the records of sea-level and environmental/climatic changes by Quaternary reefs and carbonate platforms. He was Co-chief Scientist of the IODP Expedition 310: Tahiti Sea Level in 2005.

He has served as Co-chair of the IODP Environment Science Steering Evaluation Panel (2003-2005), member of the IODP Science Planning Committee (2007-2010) and Chair of ESSAC (ECORD Science Support and Advisory Committee) (2007-2009). He is currently Director of the ECORD Managing Agency (EMA).

Dr Carlota Escutia

PhD. 1992, Barcelona University

Senior research scientist at the Instituto Andaluz de Ciencias de la Tierra (IACT, CSIC-UGR) Granada, Spain.

Escutia's scientific interests focus on seismic stratigraphic and sedimentologic studies of clastic continental margins with objectives related with climate Change and Ice

Sheet stability, geohazards and the exploration of hydrocarbons. She was Co-chief Scientist of the IODP Expedition 318: Ice Sheet Evolution from Wilkes Land (Antarctica) sediments, in 2010. For the past 6 years, she is the Chair of the SCAR (Scientific Committee for Antarctic Research) Research Program Antarctic Climate Evolution (ACE) and its successor Past Antarctic Ice Sheet Dynamics (PAIS). She has served the ocean drilling community as an ODP Staff Scientist (1998-2002) and as a member of the IODP Site Survey Panel (2002-2005). She is currently the Chair of the Science Committee of ECORD (ESSAC: ECORD Science Support and Advisory Committee) (2011-2013).

The European Consortium for Ocean Research Drilling (ECORD) as part of the International Ocean Discovery Program (IODP)

Gilbert Camoin, CEREGE-CNRS, Director of the ECORD Managing Agency

Scientific drillships allow scientists to access some of Earth's most challenging environments, collecting data and samples of sediment, rock, fluids and living organisms from below the seafloor. Drilling expeditions and experiments during the past international ocean drilling programmes have transformed the understanding of our planet by addressing some of the most fundamental questions about Earth's dynamic history, processes and structure, and by opening up new lines of inquiry. Equally important, scientific ocean drilling has fostered enduring international collaborations, trained new generations of multidisciplinary students and scientists, and engaged the public worldwide in scientific discovery.

With multiple platforms (like the multipurpose drillship *JOIDES Resolution*, the riser vessel *Chikyu* and Mission-Specific Platforms (MSP), proven drilling, sampling and long-term borehole observational techniques, as well as the diverse range of science that can be addressed by studying Earth beneath the sea, the **International Ocean Discovery Program (IODP)** - the largest marine geosciences programme in the world - will build on the legacy of past ocean drilling programmes and address global challenges facing current and future generations with new research approaches, expanded scientific communities and continued development of its unique collaborative model.

The **European Consortium for Ocean Research Drilling (ECORD)**, is the **European and Canadian part of the International Ocean Discovery Program** and was created in 2003 by 12 countries to join the international IODP programme as a single member. ECORD now has 18 member countries, with Poland as the most recent member. Israel will be the 19th ECORD country at the start of the International Ocean Discovery Program. ECORD has initiated discussions with Russia and Luxembourg to expand the Consortium. ECORD co-ordinates the European contribution to IODP and operates **Mission-Specific Platforms (MSP)** chartered on a specific project basis for drilling in technically challenging conditions, including high latitudes and shallow-water environments. At the start of the International Ocean Discovery Program, ECORD is implementing a MSP expedition dedicated to the climatic and paleoceanographic evolution of the Baltic Sea during the last glacial cycle.

Amongst the Science Plan's themes – Climate and Ocean Change, Biosphere Frontiers, Earth Connections and Earth in Motion – ECORD, as a MSP operator, plans to focus on issues of particular societal relevance, such as climate change, resources and geohazards. The exploration of the polar regions, the **Arctic** and the **Antarctic**, is seen as a priority. Both ECORD and

IODP are on the cusp of change towards the achievement of increased funding and operational flexibility, as well as greater opportunities in scientific and technological innovations. New opportunities will be created through the close collaboration with other science programmes and initiatives such as the **International Continental Drilling Program (ICDP)**, the **International Marine Past Global Change Study (IMAGES)** and the **European Multidisciplinary Seafloor and water column Observatory (EMSO)**.

Working towards the establishment of a **European Infrastructure** to better co-ordinate various European Universities or Institutes that operate and/or develop tools investigating the sub-seafloor will be amongst ECORD's main goals in the near future. The development of this network would help to operate research vessels and sampling capabilities with a concerted approach and cost-effective use to maximise access to the scientists, but would also facilitate the improvement of existing technologies through the sharing of knowledge and experience, and innovative endeavours.

Scientific challenges and international cooperation in the new phase of scientific ocean drilling, the International Ocean Discovery Program

Keir Becker, University of Miami – RSMAS, Chairman IODP Forum 2013-2015

The **new Science Plan for the International Ocean Discovery Program**, the post-2013 phase of scientific ocean drilling, contains several important new elements. There is a major focus on compelling scientific problems that are of immediate interest to society such as earthquake hazards or effects of climate change. This includes an emphasis on multidisciplinary and long-term experiments, as well as stronger links between Earth and Life sciences. The new programme will incorporate and develop novel technologies and capabilities unique to ocean drilling, and it will feature expanded education and outreach efforts.

The new IODP also will retain several important aspects from the 2003-2013 IODP, including the following: Specific drilling projects will be based on proposals generated by scientists to address first-order scientific problems. These proposals will undergo rigorous but transparent peer review and nurturing at the Science Evaluation Panel. The programme will retain flexibility to respond to new opportunities and emerging fields. The new IODP will empower a diverse, expanded international scientific community through access to technological and engineering support.

The new **IODP Science Plan** describes the following four main scientific themes and fourteen specific challenges that are compelling scientifically and also societally important.

1. **Climate and Ocean Change: Reading the Past, Informing the Future** - four challenges relating to: (1) effects of rising atmospheric CO₂ on Earth's climate, (2) ice sheet and sea-level response to climate change, (3) control of regional precipitation patterns, and (4) response of the oceans to chemical changes.
2. **Biosphere Frontiers: Deep Life, Biodiversity, Environmental Forcing of Ecosystems** - three challenges relating to: (1) composition and significance of sub-seafloor communities, (2) the limits of life in the sub-seafloor, and (3) sensitivity of marine ecosystems and biodiversity to environmental change.
3. **Earth Connections: Deep Processes and their Impact on Earth's Surface** - four challenges relating to: (1) dynamics of Earth's upper mantle, (2) ocean crustal architecture, (3) chemical exchanges between ocean crust and seawater, and (4) the role of subduction zones in cycling volatiles and generating continental crust).

4. **Earth in Motion: Processes and Hazards on Human Time Scales** - three challenges relating to: (1) control of destructive earthquakes, landslides and tsunamis, (2) control of the flow and storage of carbon in the sub-seafloor, and (3) how fluids link sub-seafloor tectonic, thermal, and biogeochemical processes.

International cooperation will remain a strong feature of the new IODP, even if there are some overall organisational and structural changes that will provide more independent scheduling and funding decisions for the three main IODP drilling platforms: the riserless **drillships *JOIDES Resolution*** (US) and ***Chikyu*** (Japan), and **Mission-Specific Platforms** (ECORD). The new structure and its differences from the old (2003-2013) IODP structure will be summarised very briefly.

Science and Education Opportunities within IODP-ECORD

Carlota Escutia, Research Council of Spain (CSIC) – ESSAC Chair 2011-2013

The planning and co-ordination of the scientific participation of the **European Consortium for Ocean Research Drilling (ECORD)** in IODP is the responsibility of the **ECORD Science Support and Advisory Committee (ESSAC)**.

Scientific drilling proposals arising from the scientific community are the essence of the IODP. The intellectual contribution of ECORD scientists is of primary importance: they lead up to 40% of the proposals currently being evaluated or scheduled for drilling.

To support ECORD scientists in developing new and innovative science proposals for IODP, ECORD designed the **MagellanPlus Workshop Series Programme**

As part of IODP, ECORD is entitled to berths on every IODP expedition and ECORD scientists are invited to participate in IODP expeditions via an open call for applications.

In order to reach out to students and early-career scientists as well as the science community at large, ECORD offers a number of activities to promote the accomplishments of the programme and to encourage involvement of new communities. For this:

- ECORD co-funds two to three **ECORD Summer Schools** every year to further the education of young scientists in marine-related sciences and to train a new generation of ocean- drilling scientists.
- ECORD sponsors a Scholarship Programme to help students to participate in the ECORD Summer Schools.
- ECORD sponsors merit-based awards for outstanding early-career researchers to conduct research related to the IODP.
- ECORD sponsors the Distinguished Lecturer Programme (DLP) designed to promote the scientific achievements of ocean drilling to a large audience within universities and other science institutes in ECORD member countries.
- When berths are made available, ECORD sponsors the participation of teachers in expeditions providing teachers with an opportunity to participate in seagoing research experiences and first-hand scientific results that can be translated into useful teaching resources, such as classroom curriculum materials.