# **ECORD/ESSAC** Meeting **EDUCATION** 27-28 October 2015, Naples, Italy

# **Distinguished Lecturer Programme 2015**



#### ECORD invites you to Host a Lecture The European Consortium for Ocean Research Applications to host a Distinguished Lecturer will be Drilling (ECORD) is sponsoring an initiative for a accepted from any college, university or non-profit lecture series to be given by leading scientists organisation in all European countries, Israel and involved with the International Ocean Discovery Program (IODP). CLIMATE AND OCEAN CHANGE Christian France-Lanord Himalaya: from mountains to drilling in Centre de Recherches the Bengal fan Pétrographiques et Géoc Reconstructing palaeo-circulation: Gabriele Reading sediment drifts with the aid Uenzelmann-Neben of IODP information Helmholtz-Zentrum für Polar - und Meeresforschung, Bremerhaven, Germany **BIOSPHERE FRONTIERS** What controls abundance and activity Jens Kallmeyer of microbial life in subsurface sediments? New insights from entre for Geosciences, elmholtz Centre Potsda scientific drilling. **EARTH IN MOTION** Paola Vannucchi Understanding megathrust earthquakes through ocean drilling Royal Holloway, University of London, Surrey, UK **EARTH CONNECTIONS Antony Morris** What can magnetism tell us about oceanic tectonics? New insights from Earth and Environmental Sciences, Plymouth University, UK scientific drilling. Apply by email to More information at: essac.office@erdw.ethz.ch http://www.essac.ecord.org EC RD

Total number of Lectures: 49

Current Budget for DLPs: 18.000 Euros

Schedule in FSSAC Website



#### INSTITUTION **DLP SPEAKER** ISTerre, Maison des Geoscience, Grenoble Cedex, Alexandra Total Lectures for C. FRANCE LANORD University of Southampton & National Oceanography Centre, 2016: 14 Christopher Pearce IODP Day, Istanbul Turkey St Andrew's Dept. of Earth and Environmental, UK, Timothy Hill Newcastle University, Christian Maerz University of Bristol, Stephan Lautenschlager Imperial College London, Alex Whittaker University of Helsinki, Juha Karhu University of Cambridge, Edward Tippe University of Toronto, James Brenan . KALLMEYER Ottawa-Carleton Geoscience Centre (OCGC) and the Geological Survey of Canada, Christopher Lawley Scottish Universities Environmental Research Centre (SUERC), Dan Barford Newcastle University, Ian Head University of British Columbia, Sea Crowe IODP Day, Istanbul Turkey DENM Center for Geomicrobiology at Aarhus University, Denmark, Ian POR Universities of Aveiro & Lisbon, Luis Pinehiro SWE Uppsala University, Ian Snowball ETHIOPIA Addis Ababa University, Ethiopia, Tesfaye Kidane decline) A. MORRIS Géosciences Montpellier, Benoit Ildefonse IPGS (Institut de Physique du Globe de Strasbourg), Sauter, Daniel (plus DLP ESSAC meeting Uppsala) GER Leibniz University Hannover, Jürgen Koepke GER University of Bremen, Wolfgang Bach GER Institute for geophysics and extraterrestrial physics, TU Braunschweig, Martin Neuhaus Utrecht University, Marco Maffione Netherlands University of Alberta, Canada, David Potter University of Perpignan, Serge Berne G. UENZELMANN GER Universität Heidelberg, Oliver Friedrich University College London, Bridget Wade (plus DLP ESSAC meeting Naples) UK University of Leicester, Sally Morgan UK Department of Geography at Northumbria, Vasile Ersek University of Hull, UK, Rebecca Williams UK POR University of Lisbon, Fatima Abrantes University of Exeter, Alastair Graham Germany Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences, Magdalena Scheck-Wenderoth University of Graz, Walter Kurz P. VANNUCCHI University of Victoria, Laurence Coogan Géosciences Montpellier, Benoit Ildefonse Haifa and Ben Gurion Universities, Nicolas Waldmann University of Modena e Reggio Emilia, Francesca Remitti Durham University, Richard Hobbs UK Plymouth University, Antony Morris Turkey IODP Day, Istanbul Institut de Physique du Globe de Paris, Equipe Géosciences Marines, Catherine Mevel Ghent University, Davi Van Rooij British Geological Survey, Nottingham, Melanie J. Leng Géosciences Rennes at the University of Rennes, Benjamin Guillaume GEOMAR, Michael Sipp Lectures completed Lectures in 2016 Lecures to be done before January 2016

7 UK

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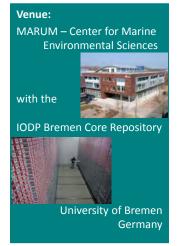
# ECORD Summer Schools 2015/ applications 2016 & other related courses



## **ECORD** Training Course 2015



Taking advantage of the unique and integrated facilities offered by the IODP Bremen Core Repository (BCR) and the MARUM Laboratories this training course will introduce the participants to life as a shipboard scientist, introducing shipboard scientist, introducing shipboard scientific methods and work flow during a simulated drilling cruise. The focus will be on the practical aspects applied on the drilling vessels of the IODP program: the JOIDES Resolution, the Chikyu and the Mission Specific Platforms (MSP; offshore or Onshore Science Party in Bremen).



- 56 applications: PhD students, Postdocs, Researchers, and Master Students
- 30 participants from ECORD and non-ECORD Countries
- 17 different Countries

Report in the April Newsletter!











The Urbino Summer School in Paleoclimatology in collaboration with the School of Rock presents

#### Past Global Change Reconstruction and Modelling Techniques

University of Urbino, Italy July 15 - August 1, 2015

The 12th summer school of the USSP consortium will focus on past climate dynamics with special emphasis on the analysis of the long-term carbon cycling and its implications in the understanding of present and future climates. USSP 2015 will integrate lectures, symposia, fieldtrips, and exercises on the many different areas of paleoclimatology including biogeochemical cycling, paleoceanography, continental systems, and all aspects of deep-time climate modeling. These techniques and systems will be explored through interactive discussions of Cretaceous OAEs, P/E hyperthermals, the Greenhouse-Icehouse transition, Neogene and Quaternary climate dynamics. The goal of USSP is to provide participants with an advanced working knowledge on the paleobiological and geochemical proxy data and their use in reconstructing and modeling of past climates. USSP2014 will be lead by ~25 leading senior scientists from around the world and we will be able to accommodate ~60 students (end-MSc or early career Graduate and post-Graduate) based on their submitted CVs.

Deadline for early-registration April 15th, 2015

Registration Fee (early registration)

Students: 600 Euros - Academic /industrial staff: 1000 Euros

For more information please visit: www.uniurb.it/ussp

#### **USSP** pool of instructors

David Beerling University of Sheffield Jelle Bijma Alfred Wegener Institute Steve Bohaty University of Southampton Gabriel Bowen Utah University Henk Brinklhuis NIOZ Ken Caldeira Carnegie Institution Thomas Cronin USGS National Center Robert DeConto University of Massachusetts Peter DeMenocal Columbia University Henk Dijkstra IMAU Utrecht Gerald Dickens Rice University Timme Donders Utrecht University Gerald Haug ETH Zurich Jorijntje Henderiks Uppsala University Kate Hendry Bristol University Chris Hollis GNS Science Lower Hutt Matthew Huber Purdue University

Lee Kump Penn State University Hugh Jenkyns Oxford University Frans Jorissen University of Angers Luca Lanci University of Urbino Mark Leckie University of Massachusetts Lucas Lourens Utrecht University Stephen Meyers University of Wisconsis Jack Middelburg Utrecht University Mark Pagani Yale University Heiko Pälike Bremen University Richard Pancost University of Bristol Adina Paytan Univ. California Santa Cruz Isabella Raffi University of Chieti Michael Rampino New York University Christina Ravelo Univ. California Santa Cruz Maureen Raymo Columbia University Gert-Jan Reichart Utrecht University

Andy Ridgwell University of Bristol Eelco Rohling University of Southampton Francesca Sangiorgi Utrecht University Jaap Sinninghe Damste NIOZ Luke Skinner University of Cambridge Caroline Slomp Utrecht University Jan Smit Vrije Universiteit Amsterdam Howard Spero UC Davis Paolo Stocchi Delft University Ellen Thomas Yale University Paul Valdes University of Bristol Bert Vermeersen NIOZ Anna von der Hevdt IMAU Utrecht **Bridget Wade University of Leeds** Scott Wing Smithsonian Institution Richard Zeebe University of Hawaii at Manoa

#### Organization and coordination

Simone Galeotti simone.galeotti@uniurb.it Stephen Schellenberg saschellenberg@mail.sdsu.edu Appy Sluijs A.sluijs@uu.nl













- 33 Teachers
- 72 participants
- **8 ECORD Countries**
- 3 non-ECORD Countries (USA, Australia and New Zealand)

2 reports provided for the upcoming November Newsletter!

- Report from Henrika Detlef (UK) and Amy Sparkes (UK)
- Report from Igor Obreht (Germany)



### **ECERD Summer School 2015**



#### Invited lecturers:

- M. Andreani (University of Lyon)
- W. Bach (MARUM, Bremen)
- D. Brunelli (University of Modena)
- C. Devey (GEOMAR, Kiel)
- G. Früh-Green (ETH Zurich)
- C. Garrido (University of Granada)
- B. Glazer (University of Hawaii)
- B. Ildefonse (University of Montpellier)
- F. Klein (WHOI, USA)
- B. Menez (University of Paris)
- A. Morris (University of Plymouth)
- S. Petersen (GEOMAR, Kiel)
- U. Röhl (MARUM, Bremen)
- T. Schroeder (Bennington, USA)
- D. Teagle (University of Southampton)
- R. Tribuzio (University of Pisa) and others.







University of Bremen

Germany

MARUM - Center for Marine

**IODP Bremen Core Repository** 

with the

**Environmental Sciences** 

- 26 Teachers
- 33 participants
- 9 ECORD Countries
- 2 non-ECORD Countries (USA and Spain)

1 Report in the upcoming November Newsletter!

#### Report from:

- Kristina Grete Dunkel (Norway)
- Jakub Ciazela (Poland)
- Joseph Offei Thompson (France)
- Sofia Escario Perez (France)
- Minasadat Seyedali (Canada)





#### 8<sup>th</sup> Course

#### International School on Foraminifera

Urbino - 3<sup>rd</sup>-22<sup>nd</sup> June, 2015

The 8th Course on Foraminifera is designed to provide an overview of the Taxonomy, Ecology, Biodiversity, and Geological History of Benthic and Planktonic Foraminifera. This intensive course is intended for students interested in Micropalaeontology, Palaeoecanography, Palaeoecology, Climate History, Biology, and Environmental applications. The aim is to provide a primer on the study of foraminifera and examples of how foraminifera can be used as (paleo)environmental and (paleo)oceanographical proxies. We review the current classification schemes of the foraminifera, discuss their ecology and life history, review their usefulness for biostratigraphical applications, and use case studies to investigate the geological history of the group with lab and practical sessions. The entire course consists of approximately 60 hours of lectures and 60 hours of practicals.



#### Course Structur

Four distinct courses are planned: Foraminiferal Introduction (4-8 June), Larger Benthic Foraminiferal Course (9-12 June), Smaller Benthic Foraminiferal Course (14-18 June) and Planktonic Foraminiferal Course (19-22 June).

#### Teaching forma



The course consists of lectures and practical classes covering the taxonomy, distribution, ecology, and paleoecology of foraminifera. Microscope lab sessions provide the opportunity for participants to learn the foraminiferal genera and species, and view Cretaceous to Neogene foraminiferal assemblages from Petroleum Exploration areas and ODP sites as well as Quaternary and modern assemblages. At the end of each lecture session, different tasks will be assigned to participants to reinforce the knowledge learned. Course materials include the lecture powerpoints and numerous pdf reprints of classic papers.

#### Correspondence and information

Dr. Fabrizio Frontalini - Università di Urbino, Campus Scientifico, Localita' Crocicchia, 61029 Urbino, (Italy) fabrizio.frontalini@uniurb.it or isf@tmsoc.org Tel: (+39) 0722 304309, Fax: (+39) 0722 304220

#### How to make an application

Registration must be done by submitting the application form that can be download from <a href="http://isf.tmsoc.org">http://isf.tmsoc.org</a> website, or by sending an email to isf@tmsoc.org

#### Lecture

Prof. Michael A. Kaminski, King Fahd University of Petroleum & Minerals (Saudi Arabia)

Dr. Fabrizio Frontalini, Urbino University (Italy)

Prof. Laia Alegret, University of Zaragoza (Spain)

Dr. Antonino Briguglio, University of Vienna (Austria)

Dr. Claudia Cetean, Robertson Ltd (UK)

Prof. Rodolfo Coccioni, Urbino University (Italy)

Dr. Danielle Foy, Wellsite geologist (The Netherlands)

Prof. Felix Gradstein, Natural History Museum of Oslo (Norway)

Prof. Johann Hohenegger, University of Vienna (Austria)

Prof. Geraint Wyn Hughes, King Fahd University of Petroleum & Minerals (Saudi Arabia)

Dr. Sev Kender, British Geological Survey (UK)

Prof. Michal Kucera, MARUM & University of Bremen (Germany)

Prof. Jeno Nagy, University of Oslo (Norway) Prof. James Ogg, Purdue University (USA)

Prof. Cesare Andrea Papazzoni, University of Modena e Reggio Emilia (Italy)

Prof. Jan Pawlowski, University of Geneva (Switzerland)

Prof. Maria Rose Petrizzo, Milano University (Italy)

Dr. Anna Sabbatini, Marche Polytechnic University (Italy)

For more information please visit our website at www.isf.tmsoc.org







ISF was funded with 5000 Euros to support
 4-5 ECORD students to attend the course

#### Awarded students:

- Stephanie Kloboth (Germany)
- Julia Wöger (Austria)
- Sergio d'Albero (Italy)
- Anna Binczewska (Poland)



#### Summer Schools Applications 2016

- Urbino Summer School in Paleoclimatology 2016, July 2016
- ECORD Bremen Summer School 2016 "Submarine Geohazards: Mapping, Monitoring, and Modelling", MARUM. Usually in September
- ECORD Training Course 2016 "Virtual Drillship Experience", MARUM.
   March, 2016.
- 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



ECORD Summer School: Petrophysics (Continuation)

#### **Concept**

Unique workshop that will bring together experts from both academia and industry to give training in the theory and practice of petrophysics and, notably, its applications across both IODP and industry.

#### **Research Topics**

- Downhole logging: in situ, continuous measurements that can be used to determine the physical, chemical, and structural properties of the formation penetrated by a borehole
- Physical properties measurements: density, velocity, resistivity, magnetic susceptibility, natural gamma radiation, porosity and colour reflectance datasets
- Hole-to-hole correlation

Budget plan Costs:	
Costs:	

the second that	£	€*
Travel & subsistence for tutors/lecturers	16,000	24,000
Staff costs for event organisation	4,500	6,750
Conference facilities & materials	5,000	7,500
Workshop dinner	1,000	1,500
Downhole logging practical/fieldtrip	4,000	6,000
TOTAL	30,500	45,750

<sup>\*</sup>Conversion rate of 1.5 has been used

Other sources of funding may include:

- NERC UK IODP Knowledge Exchange Fellowship.
- Applications to Industry bodies such as SPWLA, LPS and AFES.
- Support from UK IODP.
- A course fee will be charged to participants to secure their place.



- > 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*.
- ✓ A new revised version of the proposal was presented with a requested budget of 10.000 Euros
- ✓ After an email discussion between the members of the Education and Outreach Subcommittee...
- ✓ We are requesting a €10,000 contribution from ECORD to support this Summer School next year.

#### **Summary**

#### **ESSAC** Requests:

- for Summer Schools 2016: 30.000 Euros (3 Summer Schools, instead of 2)
- For the ECORD Training Course 2016, Bremen: 6.500 Euros



# ECORD Scholarships and Grants: update and applications 2015



#### Scholarships Applications/Awardees 2015 – Budget € 15,000

#### **Bremen**

#### **16 Awardees**

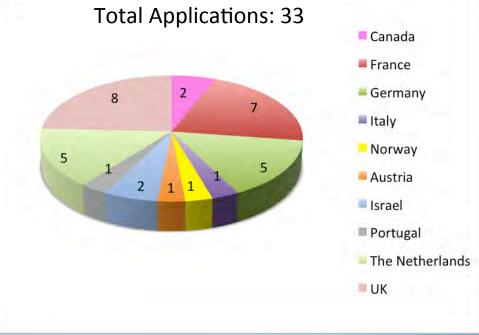
6 France, 3 Germany 2 Canada, 2 Italy, 1 Norway, 1 Poland, 1 Sweden

#### **Urbino**

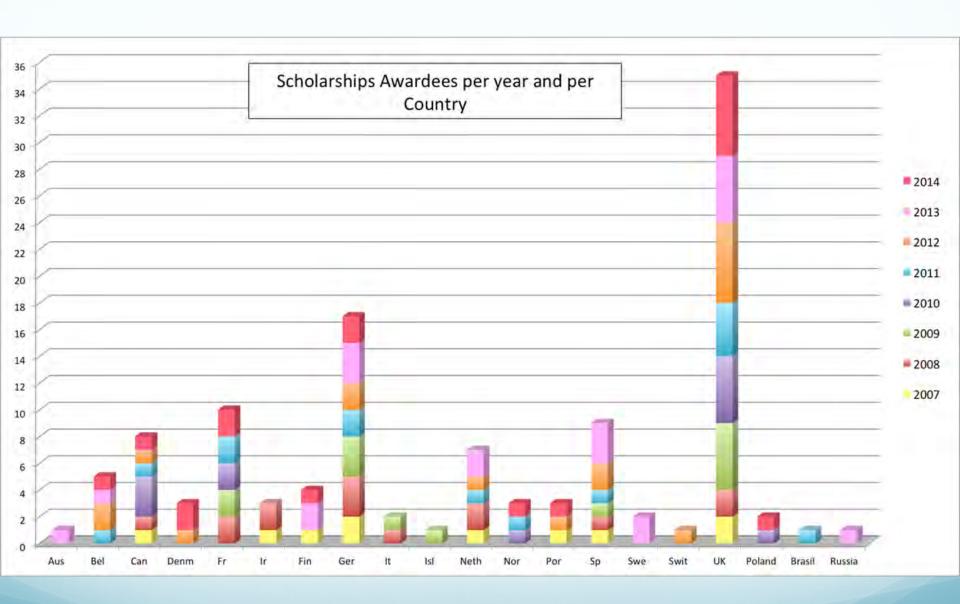
#### 10 Awardees

3 UK, 2 Germany, 1 France, 1 The Netherlands, 1 Austria and 2 Canada





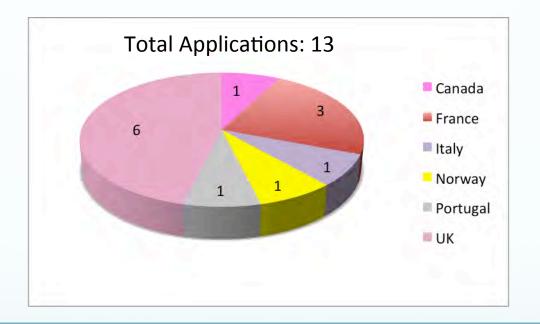






#### Grants Applications/Awardees 2015 – Budget € 15,000

**8 Awardees** 5 UK, 1 Portugal, 1 Italy and 1 Norway



CONLUSION from the past meeting: Need to have a more coordinated, regulated procedure and clear criteria for future ECORD grant awards



#### **DISCUSSION** (leaded by D. Weis)

Some suggestions & questions from Gretchen:

- Create an special subcommittee of 4/5 people to evaluate Grants proposal
- Discussion and selection of candidates early in the year, not wait for the ESSAC meeting in May. Grants projects would start earlier, avoiding the payment of grants in the following fiscal year (an issue when the ESSAC office moves to another country)
- Revise the criteria of selection/ranking; need to be homogeneous
- Need to increase individual award amounts? Fewer awards? More money?

After discussion during the ESSAC meeting...



#### **Proposal to evaluate Research Grants homogenously:**

- Mini-proposal (40%) + Budget plan (10 %): 50 %
- Letters of Support (20%)
- CV (30%)
- ✓ Minimum number of Rankings: 5, instead of making a Subcommittee
- ✓ Delegates from the E&O subcommittee may inform to the ESSAC office if they are not going to rank
- ✓ All delegates are welcome to rank, not only the E&O Subcommittee

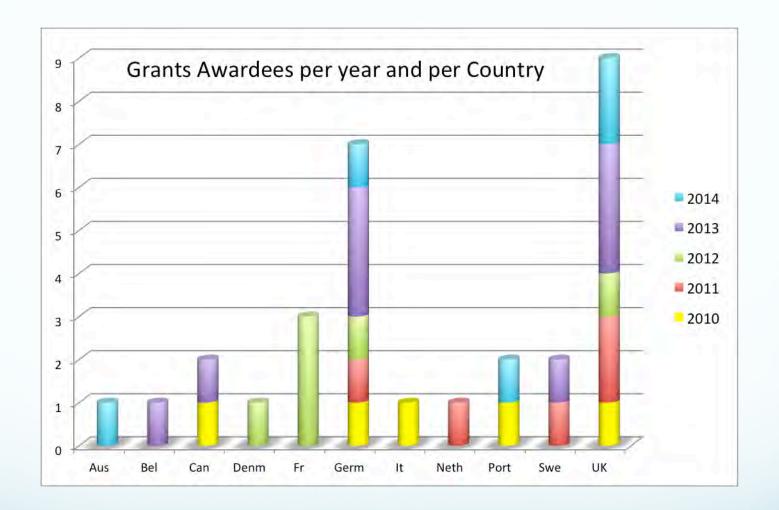
#### Requirements for the applicants:

- The research may be directed toward the objectives of upcoming or past DSDP/ODP/IODP expeditions
- Preference will be given to studies conducted in a laboratory/institution other than the applicant's home institution and to studies that promote new collaborations and/or the acquisition of new scientific expertise
- Applicants should be enrolled in either a PhD or "early-career", postdoctoral research programme at any institution from an ECORD country

#### To be finalized:

- ✓ ESSAC suggests to increase the budget for the Research Grants to 18.000 Euros
- ✓ ESSAC also suggests to increase the maximum amount to award ECORD applicants (2.000 Euros is too low, it could be about 3,000 Euros) and make it clear in the Call (fewer awards, more money for individual applications)
- ✓ ESSAC will circulate a draft of the Call to get the input of all the ESSAC delegates





ECORD Research Grant Reports for the upcoming Newsletter



# **Teachers at Sea 2015/2016**







#### Onboard Education Outreach Officer/Teacher at Sea

#### CALL FOR APPLICATIONS

#### for Teachers & Educators based in ECORD Member countries to sail on board the JOIDES Resolution

Deadline to apply: 29 July 2015



The European Consortium for Ocean Research Drilling (ECORD) offers you the unique opportunity to sail in the framework of the International Ocean Discovery Program (IODP), an international research program for drilling at sea.

Educators and teachers are invited to apply to sail on one of three upcoming IODP expeditions on the incredible 143-m long JOIDES Resolution, a platform outfitted for state-of-the-art scientific exploration and education. We are looking for applicants with strong educational and science backgrounds, comfort with using the web, multimedia and social media tools, and a passion for sharing the excitement of science with students, other educators and the general public. It is also advantageous be flexible, adventurous, and good at working with all kinds of people.

The expedition schedule is planned as follows:

- Expedition 359: Maldives Monsoon and Sea Level (30 September 30 November 2015) http://iodp.tamu.edu/scienceops/expeditions/maldives\_monsoon.html
- Expedition 360: SW Indian Ridge Lower Crust and Moho (30 November 2015 30 January 2016) http://iodp.tamu.edu/scienceops/expeditions/indian\_ridge\_moho.html
- Expedition 361: Southern African Climates (30 January 31 March 2016). Subject to berth availability http://iodp.tamu.edu/scienceops/expeditions/southern\_african\_climates.html



#### Teachers at Sea 2015 Applications

NAME	POSITION	COUNTRY	EXP. INTEREST IN ORDER OF PRIORITY	COMMENTS
Burgio, Marion	High School Teacher	France	360	
Darrieu, Michelle	High School Teacher	Belgium/ France	359	Applied for Exp.353 and 354. Now She is applying for Exp. 359. Sharon Cooper and the ESSAC office agreed to use the previous application for her evaluation, with a new cover letter.
Kavanagh, Lucas	Freelance Earth Scientist, coordinating activities between Codemakers and Actua	Canada	361, 359, 360	Codemakers is a private company. Actua is a national Canadian charity dedicated to providing hands-on science education to all youth.
Le Gall, Christophe	High School Teacher	France	359, 360, 361	to am youram
Maricou, Hans	High School Teacher	Belgium	359	
Puig, Jean Noël	Middle School-High School Teacher	France	360, 361, 359	

IODP France is going to support M. Darrieu and M. Burgio ESSAC will co-fund travel expenses

**ESSAC CONSENSUS 1410-07:** ESSAC approves to add a budget item for ECORD "Teachers at Sea". ESSAC shall request  $\in$  5,000 for travel support, assuming an average of 2 teachers/year participate on JR expeditions.



# **Upcoming E&O Calls 2016**



# Call to apply for **ECORD Scholarships** to attend the ECORD Summer Schools 2016: December 2015

#### CALL for Institutions to host an ECORD Summer School 2017:

December 2015 /January 2016

Call to apply for **ECORD GRANTS** 2016:

January 2016

Call to be an **ECORD Distinguished Lecturer** 2016/2017:

January/February 2016



# ESSAC office participation in meetings for Educational/Outreach purposes since the last ESSAC meeting:

- Submarine Paleoseismology MagellanPlus Workshop (16-18 July, 2015), Zurich, Switzerland:
- J. Gutierrez Pastor was invited as organizer and co-leader in a scientific breakout session. Report provided by Michi Strasser in the upcoming Newsletter!
- Bremen ECORD Summer School 2015 (31 August 15 September, 2015):
   G. Früh-Green was invited as a teacher and ESSAC Chair in the Summer School.
- Swiss IODP Bern (9 September, 2015): The ESSAC office attended and presented the ESSAC News to the Swiss scientific community.
- Outreach and Education Task Force meeting # 8 in Potsdam (6-7 October, 2015).

#### **Upcoming participation in meetings:**

AGU (14-18 December, 2015) IODP-ICDP Booth.



#### **ESSAC News & Social Network**

**Essac Ecord** 

**ESSAC NEWS (MONTHLY)** 



#### **ESSAC News**

#### **OPEN Calls for Applications**

- ECORD Facility Board (Deadline to apply: 5 December, 2014) http://
- Training Course 2015 (9 March-13 March, 2015) at the MARUM C Bremen Core Repository (BCR), University of Bremen, Germany (De http://www.marum.de/en/ECORD Training Course 2015.html
- ESSAC Chair (Deadline to apply: January 9, 2015) <a href="http://www.essa">http://www.essa</a>
- IODP Expedition 357: Atlantis Massif Serpentinization and Life (Aut.) http://www.essac.ecord.org/flyer/357 ESSAC application call.pdf
- Nomination for IODP Forum Chair (Deadline to apply: January content/uploads/Call for Noms 2nd Forum chair.pdf





360 friends



**ESSAC DISTRIBUTION LIST** 













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