



EUROPEAN REGION NEWSLETTER

Unlocking the Future



November 2009, Vol. 4

<http://www.aapg.org/europe/newsletters/index.cfm>

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PRESIDENT'S MESSAGE



Dear Readers,

It's been all change in the European Council this year as Istvan Berczi mentioned in the previous issue. I would particularly like to thank John Brooks, the outgoing Past President, for his six dedicated years on the committee and Stuart Harker who has finished his term as Advisory Council Representative. Steve Veal, Director of the London Office, has returned to the US and we will miss his creativity and enthusiasm which have influenced European activities immensely over the past few years. We welcome his replacement, Jeremy Richardson, who joins us from Pennwell Corporation and wish him well in his new assignment.

One of my objectives, during my term as President, is to promote the services of the AAPG to the membership. I often have the impression that members do not know what is available to them and that the AAPG could do a better job in advertising the benefits, products and services of membership. Always keep an eye on both the AAPG and European Regions websites for information about future events.

In Europe, we are aiming to increase educational opportunities. AAPG Distinguished Lecturer, John Kaldi has recently conducted an extensive lecture tour in Europe. John visited nearly 20 locations in 8 countries over the 5 weeks of his tour. We plan further Distinguished Lecture and Visiting Geoscientist tours in 2010. We are planning an Education Week in Aberdeen in May 2010 providing courses on such diverse subjects as 3D seismic attributes, reservoir engineering for petroleum geologists, pore pressure prediction, integrated stratigraphic analysis and basic open-hole log interpretation.

In January our Imperial Barrel Award (IBA) competition kicks into action. University teams throughout Europe will be sent seismic and well datasets from various worldwide basins in order to conduct an evaluation of their exploration potential. The teams will meet in Prague at the end of March in order to present the results of their evaluations to a panel of industry experts. The winning team will take part in the global competition which will take place at the AAPG Annual Convention in New Orleans, in April. At the Prague event Student Chapter Presidents will be invited to a

Leadership Meeting in order to review activities and discuss ways to enhance them and also to see the IBA in action.

The annual European Region Conference will be held at IFP in Rueil Malmaison, Paris on 23rd and 24th November. The topic this year is the revitalisation of exploration in Europe with papers covering both conventional and unconventional oil and gas exploration throughout Europe. During the conference the Annual General Meeting of the Region will take place, the purpose of which is to review the activities of the past year, plans for next year and to provide an opportunity for the membership to ask questions of the Council.

APPEX, the AAPG annual prospect fair will take place at the Design Centre, Islington, London, in early March. This year, it will be preceded by a one-day symposium covering lessons learned from unsuccessful wells.

A Geosciences Technical Workshop on resource assessment in unconventional plays is planned to take place in Istanbul in May 2010. This is a follow-up of the successful workshop on unconventional resources earlier this year. Further GTWs are planned and the European Council would be pleased to hear of any topics of particular interest from the membership.

Kiev is the location of the 2010 Region Conference and the subject is exploration in basins in and around the Black Sea and Caspian Sea. The conference is being held jointly with the Ukrainian Association of Geologists and we are sure that it will generate a lot of interest in the membership.

As well as these more formal events we are holding a regular series of technical lunches in Aberdeen and London, the latter in association with the Geological Society. These sessions comprise a technical presentation followed by a light lunch.

Last but not least some of the greatest benefits of the AAPG are the publications: the European Newsletter, Explorer, Bulletin and books and memoirs. Our European Editor, Hugo Matias, is always looking for short technical papers for the Newsletter. Gretchen Gillis, AAPG Editor, is always pleased to receive technical papers for the Bulletin.

Finally, I would like to thank the organisations that have sponsored our events over the past year, without this financial support it would be impossible to provide the broad range of activities that we are currently offering.

David R. Cook
 AAPG European Region President

Environmental Significance of the Mediterranean Outflow Water and its Global Implications (“GUCADRILL”- IODP Full Proposal-644)

Stow, D.A.V.¹, Hernández-Molina, F.J.², Cacho, I.³; Escutia, C.⁴; Gardner, J.⁵; Ito, M.⁶; Lebreiro, S.⁷; Martin, P.⁸; Mulder, T.⁹; Rebesco, M.¹⁰; Roberts, A.¹¹; Schoenfeld, J.¹²; Sierro, F.¹³; Somoza, L.⁷; Terrinha, P.¹⁴; Voelker, A.¹⁴; Weaver, P.¹¹

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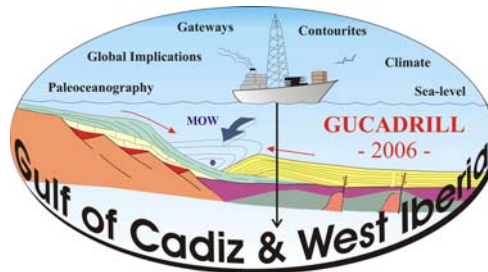
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This is a paleoceanographic proposal involved 44 researchers from 11 different countries focusing on the broader significance of Mediterranean Outflow Water (MOW) on North Atlantic circulation and climate (Stow et al., 2006). It addresses important questions highlighted in the IODP Initial Science Plan related to paleocirculation and climate, the influence of oceanic gateways, and sea-level control on sediment architecture along continental margins. In order to answer these questions, we propose targeted drilling of a Neogene continental margin sequence in the Gulf of Cadiz and off West Iberia. The high rates of accumulation associated with Contourite Depositional System (CDS) deposits in this region provide an expanded sedimentary record that permits detailed examination of paleocirculation patterns linked to past environmental change. This proposal offers a unique opportunity to understand the global link between paleoceanographic, climatic and sea-level changes from Messinian to recent time. The Gulf of Cadiz and off West Iberia CDS is an extensive compound sedimentary body, which has been developing along the mid-slope over the past 5 million years, under the direct influence of MOW (Fig. 1). It therefore holds an unmistakable signal of MOW through the Gibraltar Gateway, re-opened following tectonic adjustments at the end of the Messinian Salinity Crisis, and hence a clear record of Mediterranean Sea and MOW influence on the North Atlantic Ocean.

An extensive array of high quality data exists for the region and a detailed seismic stratigraphic framework has recently been proposed, which can only be confirmed by drilling. Seven primary sites have therefore been identified (Fig. 2) that will allow us to identify and calibrate the third and fourth order depositional units and associated widespread erosive discontinuities across the CDS (Stow et al., 2006). This is of great significance, both regionally and globally, for: (1) monitoring the long-term variability of MOW and its global climatic significance; (2) constraining the main paleoceanographic events through late Miocene to Recent time, including high-resolution focus on late Pleistocene and Holocene rapid climate events; (3) evaluating the influence of opening of the Gibraltar gateway on North Atlantic oceanography and climate, and monitoring the effects of sea-level change on MOW flux; (4) understanding the architecture of a complex contourite depositional system, and the nature of its unit stacking pattern related to allogenic and autogenic controls and (5) investigating the dramatic large-scale asymmetric cycles of seismic character evident on high-



resolution records, thereby identifying their occurrence onto Quaternary-Pliocene climate/sea-level and paleoceanographic changes.

An extensive Contourite Depositional System (CDS) has been developing within the Gulf and the West Iberian Margin over the past 5 million years as the direct result of the Mediterranean Outflow Water (MOW). The high rates of accumulation and expanded sedimentary records of drift deposits permit high-resolution examination of past environmental change. The CDS deposits, therefore, hold the very best signal of MOW flow through the Gibraltar gateway, and a clear record of its influence on the oceanography and climate of the North Atlantic Ocean and on North Atlantic Deep Water (NADW) variability (Fig. 3).

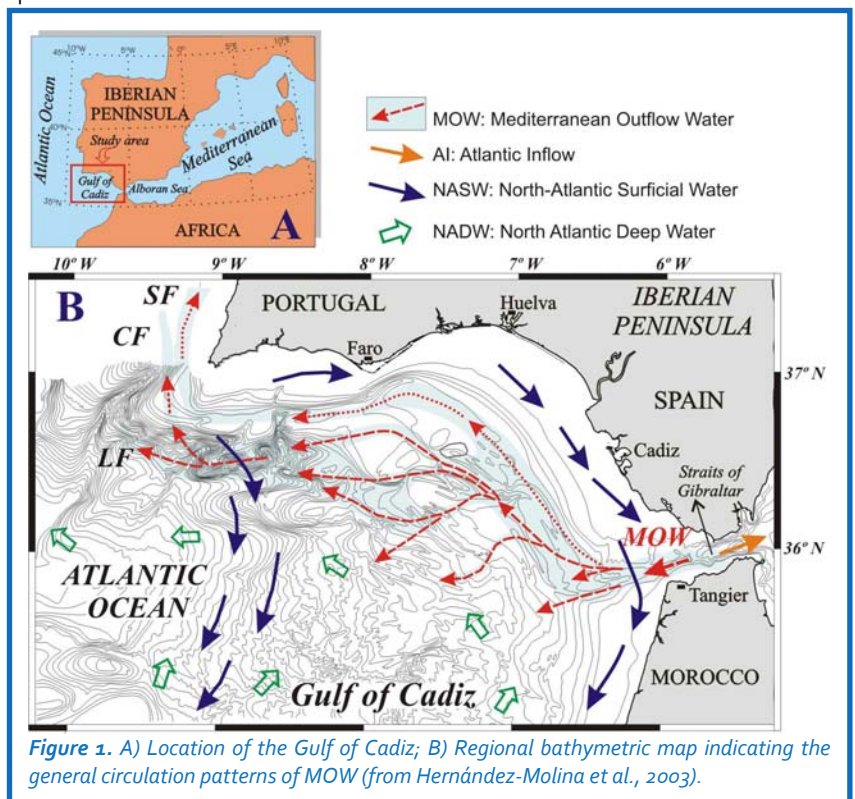


Figure 1. A) Location of the Gulf of Cadiz; B) Regional bathymetric map indicating the general circulation patterns of MOW (from Hernández-Molina et al., 2003).

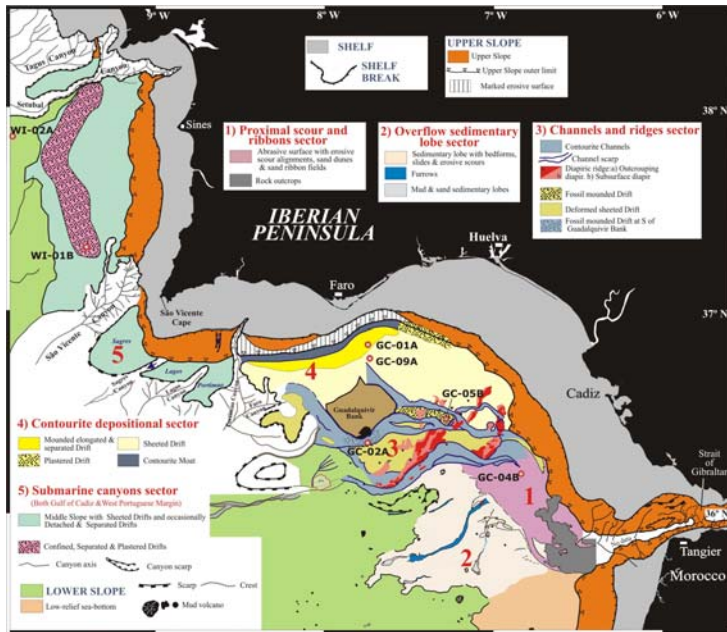


Figure 2. Regional map of the Contourite Depositional System on the middle slope of the Gulf of Cadiz and West Iberian margin. Morphosedimentary sectors: 1) proximal scour & ribbons sector; 2) overflow sedimentary lobe sector; 3) channels and ridge sector; 4) contourite depositional sector, and 5) submarine canyons sector (based on Hernández-Molina et al., 2003; 2006 and Lebreiro, S. personal communication). IODP Sites GC-01A, GC-09A, GC-02A, GC-04B, GC-05B, WI-01B and WI-02A are located

The importance of the Gulf of Cadiz is clearly reflected in the large number of regional studies and multinational interest shown over the past 30 years. But, despite such extensive surveying, the region has not yet been drilled for scientific purposes, even though the Gibraltar gateway clearly has major implications for global climate and oceanography. We have identified the following four broad scientific objectives, which require a total of seven drill sites (Fig. 2) through the Pliocene to Quaternary sedimentary record (Stow et al., 2006): 1) Influence of the Gibraltar Gateway; 2) MOW paleoceanography and global climate significance; 3) Sea-level changes and sediment architecture

of the Cadiz CDS and Iberian margin; and 4) Synsedimentary neotectonic control on architecture and evolution of the CDS. To achieve these major scientific objective, it is essential to integrate the results of the proposed drill sites with a dense network of existing high-resolution seismic reflection profiles. Interpretation of this seismic network is already well established, although the inferred ages require drilling confirmation.

ACKNOWLEDGMENTS

We thank to REPSOL, TGS-NOPEC and the Spanish company for the Morocco-Spain connection through the Strait of Gibraltar (SECECSA) for their fully co-operation and support for the drilling proposal and permission to use some data and figures. This research proposal is supported by the Spanish "Comisión Interministerial de Ciencia y Tecnología (CYCIT)" through the Project CTM 2008-06399-Co4/MAR (CONTOURIBER).

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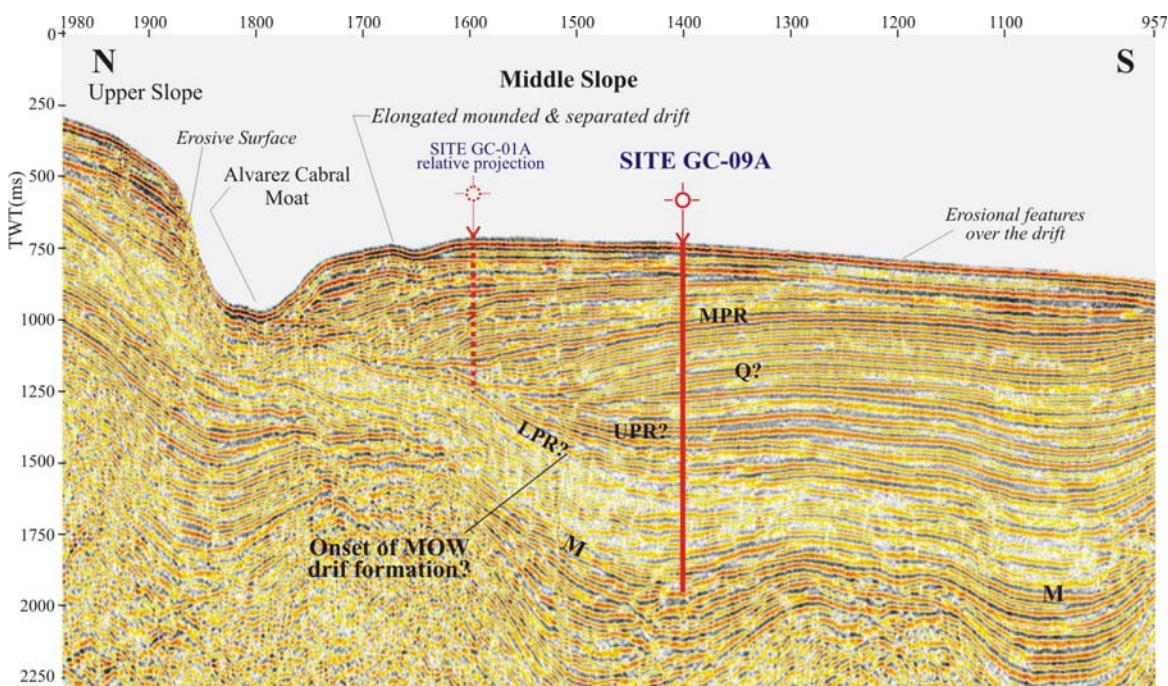


Figure 3. Uninterpreted Multichannel seismic reflection (MCS) profile across the Faro-Albufeira drift on the middle slope (Line P74-75 provided by REPSOL Oil Company for the IODP proposal. Site GC-01A & GC-09A location is shown. Four major low-resolution depositional sequences have been recognised by MCS profiles in the Pliocene and Quaternary sedimentary record (Llave et al., 2001; Hernández-Molina et al., 2006). They are separated by four relevant discontinuities: M (Late Messinian), LPR (early Pliocene?), UPR (late Pliocene?) and MPR (Mid Pleistocene?). LPR erosive discontinuity could represent the onset of drift formation.

European Region Annual Conference

Paris-Malmaison

23^d – 24th November 2009



There's still time to register for the AAPG European Region Annual Conference to be held 23-24 November in Paris-Malmaison, France.

All those interested in the past, present and future challenges associated with European resources, Atlantic margins and the Mediterranean should attend this conference.

Four main themes will be covered:

- The Mediterranean: current status of exploration and perspectives
- Central and Eastern Europe: current status of exploration and perspectives
- Northern Europe and Atlantic margins: current status of exploration and perspectives
- Unconventional resources and sustainable development

In addition to the technical program, short courses will be held on Saturday, 21 November, at Paris VI University in downtown Paris:

For complete details visit <http://www.aapg.org/malmaison>

APPEX LONDON

Registration soon will open for APPEX London, to be held 2-4 March 2010 at the Business Design Centre in Islington.

APPEX is the must-attend global event for selling and buying upstream assets, offering:

One-stop shopping for upstream opportunities

A business forum designed for networking and worldwide deal development

Regional and topical speaker program

Global attendance by decision makers from the majors to the small and large independents, consultants, governments and national oil companies

Make plans now to exhibit, sponsor or attend APPEX. For more information visit <http://www.APPEXLondon.com>.



9th Middle East Geoscience Conference and Exhibition,

Manama, Bahrain

7th – 10th March 2010

THE MIDDLE EAST: PAST, PRESENT AND FUTURE

Since oil production started in 1934, output has steadily grown and today the Arabian Peninsular countries of Bahrain, Iraq, Kuwait, Qatar, Saudi Arabia and United Arab Emirates produce in excess of 20 million bbl/d.

THE EVENT

Most recently held in 2008, the GEO conference contained 258 oral presentations and 133 poster presentations. Speakers and delegates from around the world were in attendance and helped to ensure that the region's geoscientists remain at the industry's cutting edge.

SHOW SUPPORT

Geo is officially supported by these industry leading associations:

- American Association of Petroleum Geologists (AAPG)
- Bahrain Geoscience Society (BGS)
- European Association of Geoscientists and Engineers (EAGE)
- Dhahran Geoscience Society (DGS)
- Society of Exploration Geophysicists (SEG)
- Emirates Society of Geoscientists (ESG)
- Geological Society of Oman (GSO)

KEY CONFERENCE FACTS

- This is the largest geosciences technical program in the Middle East, supported and developed by AAPG, EAGE, SEG, BGS, GDS, ESG and GSO.
- All the region's National Oil Companies contribute to the delivery and selection of abstracts.
- The GEO 2008 programme committee reviewed nearly 600 abstracts.
- Of the papers received for the 2008 event, 391 technical presentations were selected.
- The high quality technical programme attracted 1625 regional and international delegates.
- 79% of delegates rated the quality of conference papers as excellent or good.

KEY EXHIBITION FACTS

- GEO is the Middle East geoscience exhibition that attracts all the geoscience companies active in the Middle East region.
- The region's National Oil Companies all take centrepiece stands at the event.
- At GEO 2008 there were 173 exhibiting companies from around the world, making it the largest edition to date.
- A record 4297 attendees were at GEO 2008.
- 81% of visitors are likely to visit the exhibition again in 2010.
- 86% of exhibitors rated the exhibition as useful or very useful in relation to their company's business.

VISITOR PROFILE

The GEO show attracts highly technical professionals within the petroleum geoscience field who are able to participate in a purposeful science-driven conference program.

Visitors will be drawn from the following geoscience disciplines:

- Geologists
- Geochemists
- Reservoir Engineers
- Geophysicists
- Paleominerologists

TARGETED VISITOR CAMPAIGN

Geo 2010 will be marketed throughout the Middle East via extensive targeted visitor promotion campaigns designed to reach the people that count.

- Personal visits to all major oil producers and government ministries
- Strategic, targeted use of complimentary visitor tickets

- Direct mail and email campaigns to the regions NOC's plus the worldwide memberships of the AAPG, EAGE, SEG and the full memberships of the BGS, DGS, ESG and GSO
- An aggressive press campaign incorporating daily and weekly press advertising and editorial coverage
- Close liaison with quality trade press including advertising, editorial and regular press releases

HIGH QUALITY VENUE

GEO 2010 will take place at the Bahrain International Exhibition Centre, a modern exhibition complex offering some of the finest exhibition facilities in the Middle East.

Situated within 5 minutes of downtown Manama and close to all the major hotels.

EXHIBIT OPTIONS

1. Inside space only US\$460 per sqm
Allows the flexibility to build your own stand (min 18sqm)
2. Space and stand services US\$540 per sqm
This comprises of inside exhibit space, walls, carpet, lighting and fascia name panel
3. Space with walk-on package US\$565 per sqm
Comprises all stand services facilities plus a selection of furniture, display items and electrical socket. ■

For more details on the GEO 2010 exhibition please visit the AEM website:

<http://www.aeminfo.com.bh/Geo2010/>

For more details on the GEO 2010 conference visit

<http://www.geobahrain.org/events/index.php?eventid=293>

INVITATION FROM THE CHAIRMAN



On behalf of the GEO2010 Executive Committee, it gives me great pleasure to invite you to join us in the Kingdom of Bahrain for the 9th Middle East Geosciences Conference and Exhibition to be held from 7 to 10 March 2010 at Bahrain International Exhibition Centre.

Since its inception it has been proved to be a premier event for Geoscientists for knowledge dissemination and growth. Also it provides a vital platform where professionals can discuss and share new technology and best practices to be used in resolving the unique challenges of managing and exploiting the most significant hydrocarbon reserves in the world. The theme of the conference focuses on the innovative geosciences solutions that contribute to meeting hydrocarbon demand in changing times.

GEO continues to be the best platform for presenting and learning about new developments and applications in geosciences. The quality of GEO 2010 is mostly dependent on the number and quality of papers presented at the conference. Such vital contribution is the duty of geoscience professionals to nourish this discipline. Hence, I hereby would like to invite you to contribute to one of the most successful events in the region.

Faisal Al Mahroos
Chairman GEO 2010
CEO, BAPCO

Student Chapter Leadership Summit and AAPG Leadership Meeting, Tulsa, 27th - 30th August 2009

Ben Kilhams

President, Aberdeen AAPG-SC

For the past three years a select group of Student Chapter leaders have been invited to Tulsa to discuss student issues and attend the main AAPG Leadership Meeting. This year the European region was represented by two members; Ben Kilhams from the University of Aberdeen and Andrei Panaiotu from the University of Bucharest (recently voted as the Outstanding International Chapter). They joined another 14 students from across the world to give their opinions on AAPG's interaction with students and young professionals and to pass on their knowledge to the rest of the group.

The summit consisted of a day of discussions focusing on a wide variety of topics including the Imperial Barrel Award, specific bylaws, leadership best practices, report writing and membership dues. A discussion panel with industry leaders was also scheduled which focused on career development and people management decisions. Three students went on to present specific success stories and problems from their own chapters and how these were achieved or mitigated.

The student group was then fully integrated into the main AAPG leadership meeting enabling them to meet academic and industry figures from around the world. A series of meetings/open debates allowed the students to have their voice heard on the running of AAPG and the fact that their points were heard and carefully considered was much appreciated. A wide range of topics were discussed including the globalisation effort, the operation of committees and membership dynamics.

The main outcomes relevant to the European region included:

- The decision to improve the AAPG Student website including a forum to improve communication between the Student Chapters.
- General support to make funds available for a 'Visiting Geoscientist Programme' style effort to send leaders of successful chapters to struggling or new groups.
- The continuing development of the Young Professionals effort in a sustained attempt to improve numbers of student to main membership transitions. It was felt that this would be helped by 'blurring the boundaries' between the two groups.

- A host of new ideas for events and more efficient student chapter organisation based on suggestions from other chapter leaders.
- The correction of an error which meant student members did not receive the European region newsletter.

Overall, the Student Chapter Leadership Summit was a huge success due to the efforts of all those at AAPG. The participants would like to extend their thanks to all those involved and to the main membership for allowing the event to take place. The European equivalent of this event was this year held as part of the Imperial Barrel Award competition days in Prague. These two events have both produced huge progress by improving communication between groups and spreading our own enthusiasm for the AAPG and the science of Petroleum Geology.



Student leaders participating in the Student Chapter Leadership Days

Activities of the AAPG-SC Lisbon (Portugal)

Ezequiel Ferreira

President, Lisbon AAPG-SC

PAST ACTIVITIES (2009):

Lusitanian Field Trip

- During the IBA (28th-29th March 2009), we proposed the idea of a fieldtrip exchange between our AAPG SC-FCUL and other possibly interested SCs. The exchange consisted on the organization of a fieldtrip to the Lusitanian Basin, where the invited SCs would be our guests. The host SC was responsible for the lodging and transport of the invited SCs during their stay in Portugal (from one day before to one day after the fieldtrip); the flights to and from Lisbon to their respective countries was of the responsibility of each SC.
- The Lusitanian Basin fieldtrip took place at the end of May (29th-31st) and had the participation of the AAPG SC-FCUL, SC-Aberdeen and SC-Amsterdam (8 students from SC-FCUL and 4 from each invited SC).

Asturias Field Trip

- Due to the same exchange program, between the 22nd and the 24th of July our SC participated on the Asturias Fieldtrip, organized by the Amsterdam SC
- Several conferences about Petroleum Geology in our faculty.

2009-2010:

Presentation of the AAPG SC-FCUL Executive Board (28-10);

- 12/11/2009 - Conference: "From the Sedimentary Basin to an Oilfield (!) - a long way to go" by Prof. Nuno Pimentel (FCUL);
- 10/12/2009 - Conference: "Source-rock, fluids migration and structural/tectonic control by Prof. Fernando Ornelas (FCUL);
- Course: Introduction to Seismic Interpretation (Instructor: Dr. Hugo Matias), 17th-18th Dec, 2009
- Distinguished Lecture/Visiting Geoscientist Program (data to be announced)
- March: Conference: Challenges in Deep-water Exploration by Dr. Hugo Matias (REPSOL)
- March: Conference: Seismic data acquisition and processing by Jorge Marques (CGG)
- Isle of Skye Fieldtrip, inserted on the SCs exchange project (24th-28th May 2010)
- 2nd edition of the Lusitanian Fieldtrip

IBA: the trigger for the AAPG invasion in France and Europe

David Contreras

President, AAPG IFP-School SC (Member of the European Young Professionals Committee)

In the last couple of years Total –the major French Exploration and Production company– has continuously sponsored and participated in AAPG international events, indicating its commitment to our geological society and to the advancement of geosciences in general. However, the presence of the AAPG in France at university level was close to zero. Even though there are excellent schools at undergraduate, master and PhD level who offer geology, geophysics and petroleum related studies, apparently students ignored our society and especially the benefits they could get by participating in it. That changed at the end of 2007.

The Institute Français du Pétrole (IFP) is a research center with an excellent reputation in Europe and possibly in the world. The Ecole Nationale du Pétrole et des Moteurs (ENSPM) –literally National School of Petroleum and Engines– and better known internationally as IFP-School represents the educational branch of IFP at masters level. A small group of students led by Carlos Aizprua from the Geology and Geophysics Masters class of 2007-2008, took the initiative and decided to create the first AAPG SC in France. In addition they took part of the 2nd edition of the IBA contest where they got the 2nd place in a hard-fought final round among the five European universities that participated in Prague -March 2008.

The IBA competition has become the flagship programme to promote the

AAPG globally at university level. In Europe the participation has increased dramatically from the initial five universities that participated in the first European finals to the sixteen teams that registered for the 2008 competition (only eleven made their way to the finals). Moscow State University won the European finals in Prague and competed in Denver during the AAPG Annual Convention and Exhibition, eventually winning the Imperial Barrel Award.

Such an exciting competitive environment spread out quickly in France during 2009 and it encouraged two other French Universities to create their own Student Chapters: Institut Polytechnic LaSalle-Beauvais and Ecole Nationale Supérieure de Géologie de Nancy (ENSG Nancy). Ophelie Durand and Camille Carn are the energetic young ladies in charge of these chapters and they have shown their interest to participate in the diverse AAPG activities right from the beginning.

Ophelie along 3 other volunteers will work in the AAPG European Region Conference that will be held the 23rd-24th November 2009. In the other hand, Camille registered her school (ENSG Nancy) in the next edition of the IBA competition. Everything indicates that France is ready to be in the spotlight of the European geosciences. We will see next march in Prague with the 3rd edition of the European IBA competition.

Aberdeen Student Chapter Young Professionals Lecture Series

Ben Kilhams

President, Aberdeen Student Chapter

One of the recent focus areas for development of the AAPG has been the transition of student membership to become associate or active members. Typically this has produced a worrying trend of a lack of early career sign-ups. In order to buck this trend a number of Young Professionals initiatives have begun including the formation of a specific committee in the European Region. As part of these efforts the Student Chapter at the University of Aberdeen has started a series of Young Professionals lectures. These are aimed at final year or Masters level students who have expressed a desire to meet professionals with 2 or 3 years experience that not too long ago were sitting in university lecture theatres. The speakers are able to give an insight into what their companies offer, their personal experiences and the transition from university life to the business world.

The lecture series started this month with a talk from Chris Bugg and Phil Milstead representing Shell in Aberdeen. A large audience of over 40 students turned out to hear insights about the day to day working life of a geologist. Specific topics covered included life on the rigs, well management, training courses, graduate programmes, field trips, and typical office work. Feedback and questions from the participants suggested that this was an extremely useful insight into the early years of a career in the oil industry.

Further seminars have already been planned and include speakers from large and small businesses as well as recruitment websites and service companies. It is hoped that this venture, should enthusiasm remain high, will eventually be rolled out at the European Region level.

Imperial Barrel Award

The AAPG Imperial Barrel Award (IBA) is an annual basin/prospect evaluation competition for geoscience graduate students. The programme is rigorous and contributes to AAPG's mission of promoting petroleum geoscience training and providing geoscience students with experience of the industry. University teams analyze a dataset in the 6-8 weeks prior to their local competition and deliver their results in a 25 minute presentation to a panel of industry experts. Students have the chance to use real technology on a real dataset, receive the feedback from an industry panel, have the opportunity to impress potential employers in the audience and the chance to win cash prizes for their schools.

The timing of the 2010 IBA program is as follows:

Final Commitment, December 1, 2009.

Datasets Released, first Week of January, 2010.

Regional Competition in Prague, March 26-27, 2010.

Global Competition in New Orleans, Friday, April 9, 2010

The European Region can accommodate 12 teams and these will be chosen on a "first come first served" basis amongst those that make a final commitment to the programme. Please note that all travel and accommodation expenses for the Regional final will be covered by the AAPG European Region and the winning team will receive travel and accommodation expenses to the AAPG 2010 Annual Convention and Global IBA Competition.

If you are a faculty advisor of one of the European Region Universities that would like to register interest and apply for a team representing your University to take part please contact Lika Chambers, AAPG European Region Conference Manager at the AAPG European Office on +44(0)2074341399 or lichambers@aapg.org

Also if your company would like to sponsor this exciting event please contact Ken Nemeth, IBA Sponsorship Chair: knemeth@houston.oilfield.slb.com

Further details on the Imperial Barrel Award Competition can be found at: <http://www.aapg.org/iba/>

Carbon Capture and Storage, CCS, The view from 'Down Under'

Sigrunn Johnsen

House of Delegates Norway

Professor John Kaldi visited RWE Dea AG in Hamburg with his AAPG Distinguished Lecture presentation. Professor John Kaldi is also presently Manager for Storage and Education and Training Programmes at the Australian Cooperative Research Center for Greenhouse gas technologies (CO₂CRC).

John Kaldi started out by presenting the international R&D organisation, CO₂CRC, and continued to describe the various ways capturable CO₂ can be captured, compressed, transported and stored or used, before he went in to describe the 7 different ongoing projects in Australia, including one which is currently on hold. The 7 projects are as follows:

1. Gorgon: Commercial LNG Projects; CO₂ to be captured and injected
2. ZeroGen: Commercial scale coal based gasification and CCS to produce electricity
3. Callide: Retrofit Oxyfuel coal-fired power plant for capture and storage demonstration
4. Moomba: High volume CO₂ storage project in depleted fields (on hold)
5. Hazelwood, PCC: Retrofit 200MW boiler and demonstrate RWE steam fluidised bed drying and small scale CO₂ capture post-combustion

6. Monash project: Coal to Liquids, CO₂ separation, transport and storage
7. CO₂CRC Otway Project: Australia's only operational storage project, involving demonstration of geological storage of CO₂ and monitoring and verification of the behaviour of the stored CO₂ in depleted gas field at zoom depth.

John Kaldi stressed that key components of the Otway project were monitoring and verification, including air, seismic, soil, groundwater and well monitoring among some. Important is also to start measurements well before start of any injections in order to have a well representative base measurements to compare with.

The visit by Professor John Kaldi was met with high anticipation by RWE Dea AG which is an upstream company within RWE group. RWE AG, which is the second largest energy company in Europe, is heavily involved in CCS technology and research. RWE AG has started the planning of a coal based IGCC energy plant with capture, transportation and underground CO₂ storage.

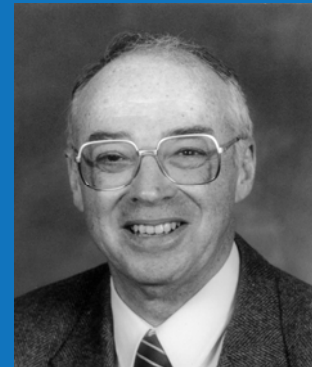
After the presentation, the RWE Dea employees had the opportunity to discuss details with John Kaldi during two half day workshops.



At the meeting in RWE Dea AG's headquarters in Hamburg about 40 professionals from BGR, Hannover and the University of Kiel and RWE Dea AG were present.

Edward (Ed) G. Purdy

It is with sadness that we report the death, in October, of Ed Purdy, who over his long career was an extremely influential geologist and a great supporter of the AAPG. A memorial to Ed will be published in the Newsletter at a later date.



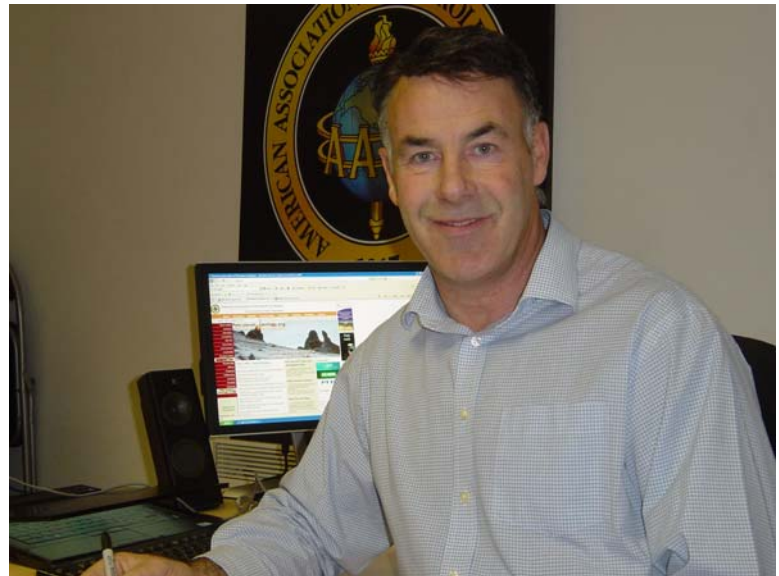
New London Office Director: Jeremy Richardson

Jeremy Richardson joined the AAPG in October as the new full time Director of the European Region taking over from Steve Veal. He will be based in the new Brewer Street office in the centre of London.

Jeremy has a long career in publishing and event organising, most recently he was the Director of International Events in London for the Tulsa based Pennwell Corporation with responsibility for running Energy, Oil and Gas, Renewable Energy, Fire and Pharmaceutical events throughout Europe, the Middle East and China.

Prior to that Jeremy ran his own international publishing and events business in the Automotive industry and has also worked in industries as diverse as Aviation, Defence, Electronics, Middle East business, Duty Free, Drinks and Broadcasting; starting, running, owning and selling his own businesses intermingled with working for some of the largest b2b international media Companies.

Jeremy is married and lives in Kent with two children; he has the dubious past time of mediaeval jousting and this year saw him run London Marathon raising almost £25,000 for charity.



WANTED !

Associate Editor and Reporters for the AAPG- ER Newsletter

Due to recent changes in the Newsletter Editorial Team and the end of my term as Chief Editor (end 2010) I am looking for a new Associate Editor. The main tasks involve special aid with the Exploration Country focus and the Technical articles sections. In one year the Associate Editor will take over the position of Chief Editor (presently Hugo Matias is the Chief Editor). I am also looking for Reporters that can assist with other sections of the Newsletter (Student sections, R&D projects, etc). For both positions I require:

- to be dynamic and enthusiast
- AAPG active member
- Good connections within the oil industry and/or Universities

If you are interested in filling this position and get involved in the AAPG structure and organization send an e-mail to

hmatias@repsol.com

AAPG Europe Meetings and Lunches

ABERDEEN OIL FINDERS LUNCH

An increasingly popular informal monthly lunch meeting held in Aberdeen, organized by the AAPG Aberdeen Committee to discuss current UK exploration business and related exploration topics

Next Aberdeen Oil Finders Lunch:

7 January 2010

Topic: 'Volantis Exploration: Challenges of New Start Up Focused on the North Sea'.

Speaker: Andy Mortimer, Volantis

Future Aberdeen Oil Finders Lunches:

4 February 2010

Topic:
Speaker: Jim Hannon, Hannon Westwood

4 March 2010

Topic: Valiant Petroleum
Speaker: Justin Morrison, Valiant Petroleum

6 May 2010

Topic: Chevron in the Atlantic Margin
Speaker: Dave Lewis

For further details and to register for the Aberdeen Oil Finders Lunch please visit the AAPG-Europe website at http://europe.aapg.org/?page_id=18



AAPG EUROPEAN REGION ANNUAL GENERAL MEETING

Date: Monday 23rd November 2009

Time: 17.00

Location: Institut Francais Du Petrole (IFP), Rueil - Malmaison, France

This is in conjunction with the European Region Conference in Paris - Malmaison and is followed by a cocktail reception at 18.20.



AAPG Distinguished Lecturer, John Kaldi made a presentation on 'Evaluating Seal Potential for Hydrocarbon Accumulations' at the Aberdeen Oil Finders Lunch on 8th October 2009 as part of his European Tour which was well received. The AAPG European Region would like to thank John Kaldi for visiting the regions' Universities and taking the time to present his talk at the October Aberdeen Oil Finders Lunch.

AAPG-Europe Short Course's

'GEOLOGIC MAPPING & CROSS-SECTION TECHNIQUES', BY JEWEL WELLBORN WITH HED INC. – SHORT COURSE FOR STUDENTS & PROFESSIONALS

Description: New computer training course for both students and professionals focusing on data management, computer mapping and cross-section design, using the PETRA software program.

This course has been designed with exercises that can be carried out in any of the available software currently on the market and is aimed at beginning to intermediate level users.

Students participating in the AAPG IBA program and who will be using computer software for that competition are encouraged to participate.

Date: 7 – 11 June 2010

Location: AAPG European Technology Training Centre, Imperial College, London

For further details and to register for this course please visit the AAPG-Europe website at http://europe.aapg.org/?page_id=73

'LESSONS LEARNED & TO BE LEARNED FROM AN INITIAL UNSUCCESSFUL DRILLING VENTURE'

Join us for....A new one day symposium focusing on case studies from around the World, which provide valuable insights into how oil & gas professionals have actually gained significant "value" from an initial unsuccessful drilling venture.

Date: 1 March 2010

Location: Islington Business Design Centre

Please check the AAPG-Europe website for further details at <http://europe.aapg.org>

'PETROLEUM GEOLOGY FOR FINANCIAL PROFESSIONALS' BY EDWARD BEAUMONT, CONSULTANT, TULSA, U.S.

New....A one day short course for financial professionals who evaluate the risk and value of oil and gas investments. The application of geologic principles to petroleum exploration and production projects lowers investment risk. The geology of an oil and gas field determines its financial performance. Understanding the role geology plays in the amount and rate of oil and gas production helps one to evaluate oil and gas plays more effectively.

Date: 5 March 2010

Location: Islington Business Design Centre

Please check the AAPG-Europe website for further details at <http://europe.aapg.org>

EDUCATION WEEK

Introducing....The region's first Education Week. This exciting new event will be held in Aberdeen and will have an offering of five full days of three parallel Geoscience training sessions to choose from throughout the week.

Date: 26 - 30 April 2010

Location: To Be Determined

Please check the AAPG-Europe website for further details at <http://europe.aapg.org>

CALENDAR OF EVENTS

2009

November						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
														4th International Symposium on Submarine Mass Movements and Their Consequences (AUSTIN, TEXAS, USA)					2009 AAPG International Conference & Exhibition (RIO DE JANEIRO, BRAZIL)					Take a Tour to European Resources (PARIS-MALMAISON, FRANCE)												
December	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
	ILP WORKSHOP Lithosphere Dynamics and Sedimentary Basins: The Arabian Plate and Analogues (ABU DHABI, UNITED ARAB EMIRATES)																																			

2010

January					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
	February	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28								
March		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
	APEX 2010 (LONDON, ENGLAND, UK)								9th Middle East Geoscience Conference and Exhibition (BANAMA, BARHAIN)																												
April			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
													AAPG 2010 Annual Convention and Exhibition (NEW ORLEANS, LA, USA)																								
May					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
	June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
												Deep-Water Circulation: Processes & Products (BAIONA, PONTEVEDRA, SPAIN)																									
July			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
	August					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
September		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
																												II Central & North Atlantic Conjugate Margins Conference (LISBON, PORTUGAL)									
October			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
	II Central & North Atlantic Conjugate Margins Conference (LISBON, PORTUGAL)																																				

 Conferences

 Course

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Romanian Association of Petroleum Geologists
No current information

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Scientific Council for Petroleum (Croatia)
No current information

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Association of Ukrainian Geologists
No current information