Dear Reader,

Welcome to the September edition of the European Region’s newsletter. During the summer months a number of elected positions within the Region’s leadership team have changed hands and I now have the privilege of serving the European Region as your President for the next two years. We also welcome Jonathan Craig of ENI onto the Regional Council (ERC) as President-elect. In recent months Helen Cromie (Maersk) and Knut Jakobsson (NPD) were also re-elected to their posts of ERC Secretary and Treasurer respectively. These members join the incumbent ERC members, Conference Manager Neil Frewin (BG) and Advisory Council member, Andrea Moscariello (Univ. Geneva) to form a really strong and experienced team. Finally, the excellent health of the Region is testimony to the sterling work of my predecessor Vlasta Dvorakova, who will continue to serve on the ERC as Past-President, and the AAPG London Office staff led by Jeremy Richardson. I thank them both for their excellent support.

This is also an appropriate time to thank those members who have completed their terms of office; Karen Wagner the previous editor of this newsletter and Ruairi McDonald (YP representative) who leaves us to further his career in Houston. The AAPG could not function without the continued support of the professional membership and we greatly appreciate all your contributions of time and expertise.

During the summer I attended the AAPG leadership Days held at the global headquarters in Tulsa. This was an opportunity to discuss the key challenges facing the organisation and its members with other AAPG leaders from around the world. The Young Professional Leadership event was also held in Tulsa at the same time and I took the opportunity to engage with our leaders of the future and listen to the subjects that concerned them. The commonality of the topics discussed by the YPs and those raised by the broader international community was striking.

During these discussions I was asked what membership of the AAPG meant to me; what was my value proposition for membership? I thought my reply, paraphrased below, may be of interest to some of you;

Great Global Geoscience – I have always associated the AAPG with the delivery of great geoscience on a truly global scale through a variety of means – international conventions and Hedberg conferences; specifically themed workshops; courses both in the lecture room and in outstanding field locations; and publications such as the Bulletin and the newly launched Interpretation volume. Geoscience delivered by globally recognised experts with a trend to deliver more and more on-line. To me this is a fundamental value of membership.

Global Network – The AAPG was developing global networks for geoscientists before the word entered common parlance. I continue to enjoy a rich and varied career that has spanned both large and mid-cap energy companies and I found the expert network that you can create by active engagement with other AAPG members to be of great assistance, particularly in the early stages of my career. The mix of young and mature professionals from all over the world with industry, governmental and academic backgrounds provides a broad and deep pool of varied experience to tap into for both geoscience and career advice. For example, at the YP leadership day in Tulsa a member from Malaysia who had recently accepted a posting to Aberdeen met up with a delegate from Scotland who provided him with an introduction to life in the Granite City that would be the envy of most company HR departments! I expect this organisation to utilise the power of social media to fully embrace this benefit of membership in the future.

It is my intention that these two core characteristics will help define my tenure as President. I invite you to contact myself or any of the ERC members with any ideas you may have on any subjects; from ways of improving the value proposition of membership to burning geoscience issues that could be the topic of an event. All communications will be gratefully received – remember this is YOUR organisation and you can help shape its future!

Keith Gerdes
AAPG European Region President
How Plate-forming Processes Explain Structure and Shortening in Fold-thrust Belts

Frédéric Mouthereau
Institut des Sciences de la Terre, Université Pierre et Marie Curie, Paris, France

Fold-thrust belts (FTBs) are archetypical tectonic features adjacent to collisional orogens, where structural traps account for 14% of discovered oil reserves. After decades of field and seismic surveys, detailed geological interpretations have emphasized their high degree of structural complexity. This has dampened academic research interest and impetus towards the understanding of larger scale geodynamic processes related to their development. A recently discovered relationship between structure of FTBs and plate forming processes (Mouthereau et al., 2013) should stimulate new novel research efforts.

FTBs express processes by which plate convergence in collisional orogenic belts is accommodated by accretion within the continental lithosphere. Two dominant tectonic modes are observed in FTBs, thin-skinned and thick-skinned (Figure 1). Thin-skinned style characterized regions dominated by underthrusting, suggesting simple-shear subduction of the underlying crust. Thick-skinned styles are characteristics of regions involving deeper basement-involved deformation where reverse reactivation of inherited discontinuities is a common geological feature, inferring pure-shear deformation of lithosphere.

![Figure 1: Main tectonic styles observed in FTBs and their relationships with continental lithosphere deformation after (Mouthereau et al., 2013).](image)

Several local factors may explain variations of structural styles and tectonic evolution between thin and thick-skinned. Among them, tectonic inheritance or interactions with sedimentation/erosion are particularly invoked. At larger scale, temporal/spatial changes in plate boundary forces or variable crustal mechanical properties related to the abundance of weak mineral phases or fluids and inherited continental lithospheric strength exert a dominant control.

METHODS
Identification of the first-order controls on FTB deformation styles requires an approach based on the distribution of shortening in orogenic belts and mechanical analysis of basement in foreland basins.

Estimates of crustal shortening were obtained from an analysis of about 50 geological cross-sections from 30 collision belts (Figure 2). Each section was constructed and restored using balancing techniques constrained by stratigraphic data from wells, seismic reflection profiles and field geological mapping. Crustal shortening, R, is calculated as a ratio, in percent, of the amount of horizontal shortening accumulated since the initiation of deformation, to the original, undeformed length of pre-collisional stratigraphic markers. Errors on shortening data account for the number of individual shortening estimate and scattering of measurements with confidence interval of 95%. It is 20% on average. In thrust belts where shortening is constrained by a single restored cross-section, a consistent average error of 20% was assumed. Cross-sections were carefully selected so that inferred shortening values best capture the long-term evolution of fold and thrust belts. Such single data are provided for large-scale cross-sections that aim to combine years of structural analysis. Hence, shortening is not necessarily less well constrained in case of one single measurement.

Shortening estimates were obtained from matching the same external parts of collisional belts, where syn-convergence burial can be considered limited. This is required the preservation of cross-sectional area during deformation, which is a prerequisite for using balancing techniques and providing robust shortening estimates. With this approach, the compilation is intended to show shortening of the same pre-collisional portions of the lithosphere.

Plate strength can be constrained by using the effective elastic thickness, Te, a proxy for the long-term strength of the lithosphere. Te values have been derived from a global compilation of 18,633 individual Te estimates for continent and ocean obtained both from inverse (i.e. spectral) modeling based on spectral admittance and coherence between Bouguer gravity anomalies and data and forward modeling of the gravity anomalies and the present-day topography/bathymetry. A large majority of the estimates are based on spectral methods, which do recover high Te but have difficulties recovering how high Te is if the latter exceeds 65-70 km. Therefore, spectral Te data used for the study were limited to 65 km then re-gridded with a limit of 85 km to incorporate the data from forward models (e.g., in foreland basins).

Because our global Te data set reflect the strength of the lithosphere at the onset of shortening or the cumulative effect of all the loads that have acted on the lithosphere through time, we should also consider the shortening relationship with the age of the lithosphere at the time of collision. We can calculate this age from the difference between the age of the foreland basin and the age of shortening, tT-S, which can be considered as a proxy for the long-term strength of the lithosphere.

![Figure 2 : Example of shortening estimates (23%) adopted in this study as constrained from balanced and restored cross-section for the central segment of the European Alps (modified after Burkhard and Sommaruga, 1998 and Mosar et al., 1999; labeled NA in Figure 3). This segment of the Alps shows shortening of both upper and lower crust of the European plate, shaping an external crustal wedge, that reflects a weak lithospheric mantle, consistent with Te as low as 10 km. Percentage of shortening is calculated as a ratio, in percent, of the amount of horizontal shortening \( L \), to the original, undeformed length of pre-collisional stratigraphic markers I. European crystalline basement in white; Triassic in pink; Mesozoic in blue and Tertiary in Yellow.](image)

RESULTS AND INTERPRETATION OF GLOBAL DISTRIBUTION OF SHORTENING IN FTBs AND PLATE STRENGTH

Figure 3A shows that the amounts of shortening estimates vary significantly between the world’s orogenic belts. Shortening is strongest in the Himalayan and the North-America Cordilleran fold and thrust belts, where it
reaches 52% to 71%, and weakest in the peri-Mediterranean and Alpine domains, where it is in the range of 23% to 49%. The sub-Andean thrust belts are characterized by intermediate values of 30% to 42%

Simple deformation models of thrust wedges (Figure 4) show that the largest shortening is expected in regions characterized by both a high convergence rate and a shallow-dipping detachment in the sedimentary cover (thin-skinned tectonic style). Evidence for this process is provided by tectonostratigraphic data in Himalayan thrust belts, where the underthrusting of an eclogitized cratonic lower crust and mantle is imaged beneath the Tibetan plateau. Conversely, the smallest amounts of crustal shortening are typical for the regions exhibiting crustal-scale ramps, connecting brittle upper layers to ductile mid- to lower crust in a relatively short distance. This process is observed in seismic reflection profiles of the Western Alps. A range of shortening values may therefore reflect different properties of the pre-existing lithosphere, independently from plate convergence rates.

The amount of shortening appears partially correlated with Te (Figure 3A), which suggests that there may be some relationship between shortening and Te. However, Figure 3A include collisional orogens of different ages, ranging from Paleozoic to Cenozoic, and involve lithospheric segments of different ages, ranging from Proterozoic to Cenozoic. A plot of the shortening R against TT-S shows a bimodal distribution (Figure 3B). Thin-skinned thrust belts are associated with foreland ages larger than 1 Ga, with R~60±10% while thick-skinned belts are younger than 1 Ga with R~30±10%. The correlation between the amount of shortening and TT-S suggests a link between the long-term integrated strength of the continental lithosphere and the structural styles in fold and thrust belts. Interestingly, continental Te also shows a bi-modal distribution which may result from a jump-like increase, for given age, in flexural strength.

CONCLUSIONS
Our study shows that the amount of shortening and the age of the foreland lithosphere at the time of collision are correlated. Plates appear to strengthen with age not only because of a colder thermal regime but probably also due to dehydration of mantle lithosphere. Deformation of low strength Phanerozoic lithosphere characterized by hot geotherms and weak mantle, involves mid-to-lower crustal detachment (thick-skinned FTBs), and shows reduced crustal strain (<35%). Older continents, with higher strength and high-viscosity mantle, promote underthrusting (thin-skinned FTBs), resulting in larger deformation (~70%). The inherited lithospheric strength controls the depths of crustal decoupling and is a function of plate age. Our results emphasize the link between deep Earth and surface processes and their impact on the development of structural styles of collisional orogens, by linking the distribution of crustal strain with the rheological properties of the continental mantle.

REFERENCES


AAPG European Region
MEMBERSHIP DRIVE

Dear All AAPG Members,

How many of you became members because someone took the time to tell you and convince you that AAPG is the organization that is a must for all geoscientists? I did and I have met many others who tell me they were introduced to AAPG in this way too. For this reason, we in the AAPG European Region, are initiating a “Membership Drive”, actively approaching G&G professionals and recruiting them as Members. Our hope is that you too will take some time to recruit new AAPG Members.

Six good reasons to become an AAPG Member:
1. Free access to the digital archives of the AAPG Bulletin. Online search for articles now includes a search by geographical area on a world map
2. Search & Discovery articles on the website offer additional technical papers plus oral and poster presentations (http://www.searchanddiscovery.com/)
3. Our worldwide conventions, meetings, continued education and conferences offer an opportunity to connect with other professionals
4. Professional growth and valuable contacts are offered by volunteering as a member on one of AAPG’s various committees; this gives you an unique opportunity to shape the future of your professional organization through active participation
5. Contributions to AAPG’ Foundation programme provide an outlet to support future earth scientists (http://foundation.aapg.org)

It’s easy to apply for membership:
The application for membership is available online. Just go to AAPG Home Page, click About AAPG on the left hand side and chose “Join Online” or follow this link (http://www.aapg.org/member/applications.cfm).

However, to begin with, a New Customer account must be created in the Application Manager system, just follow this link https://appmanager.aapg.org/site/login/default.asp?

Member - Requirements
• Must be employed in the practice or teaching of geology and have a minimum of one (1) year of experience.
• Must have a Bachelor’s, Master’s or Doctor’s Degree in geological science, including but not limited to: geology, geophysics, earth science, geological engineering or environmental geoscience. Degree must be from a college of acceptable academic standards.

• Must obtain three (3) sponsors; two (2) must be current Members of AAPG in good standing.
• All dues fees required at time of submission of application
  o $10.00 application fee
  o Graduated dues options available (3 levels) for qualifying individuals; annual PGI must be less than $50,000 to qualify.
  o Mandatory mail surcharge required for levels 1 & 2

Associate - Requirements
• Must have a degree (Bachelor’s minimum)
• Employment must be associated with geology
• No sponsor required
• Dues required at time of submission of application
  o Graduated dues options available (3 levels) for qualifying individuals; annual PGI must be less than $50,000 to qualify.
  o Mandatory mail surcharge required for levels 1 & 2

Student - Requirements
• Student applicants must be enrolled at a college of acceptable academic standards and majoring in geology or in a field of study related to or generally associated with geology.
• Dues are $10.00 OR they may choose Chevron to pay annual fee.
• No paper forms available/accepted; all applicants must apply online.
• Student must provide name and email of faculty advisor or professor.

AAPG is an international association. To stay on top and be able to continue to offer professional services to its members, it is important for AAPG to grow in order to keep up with new developments within geoscience. Membership growth is an important part of this.

If you have questions or need help with Sponsors, please, contact me on sjohnsen@talisman-energy.com

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APPEX Regional in Athens

APPEX Regional 2013 is to be held in Athens, on the 5-7th November, under the auspices of the Greek Ministry of Environment, Energy and Climate Change. Professor Yannis Maniatis the Minister of Energy met with Jeremy Richardson, AAPG European Region Director in his office in Athens earlier in 2013 to sign the official documents and give full backing from the Ministry. Professor Maniatis will be present at the conference and will have the opportunity to address the delegates at the Gala Dinner, which will be held in the prestigious Museum of the Acropolis on Wednesday the 6th November.

This is the first time the APPEX Regional event will take place in Greece and is your chance to find out more about the latest prospects and upcoming licence rounds for countries across the region. The following countries are expected to feature in the programme:

Albania, Armenia, Azerbaijan, Bosnia-Herzegovinia, Bulgaria, Croatia, Georgia, Greece, Hungary, Israel, Iran, Iraq, Kazakhstan, Kosovo, Kyrgyzstan, Lebanon, Macedonia, Mongolia, Montenegro, Romania, Russia, Slovakia, Slovenia, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan, plus some Mediterranean Countries (Cyprus, Italy, Algeria, Tunisia, Libya, Egypt, Jordan).

If you have something to say about exploration in the Region it may not be too late to speak with the Conference Chairman Mike Lakin or the AAPG European office on europe@aapg.org.

There are 300 delegates expected at the conference and a small exhibition of some 35 booths is planned. Further details about APPEX Regional can be found on the AAPG Europe website (http://www.appexregional.com/athens2013).
On Saturday 23rd August the AAPG YP group in Aberdeen went on a day-long fieldtrip to the southern Moray Firth coastline between Hopeman and Burghead (see Figure 1). The goal of the fieldtrip was to examine Permo-Triassic deposits of the Inner Moray Firth and modern day fluvial and shoreface deposits at the River Spey. The outcrops on the coastline are the only significant exposed onshore Permo-Triassic reservoir analogues for the North Sea rift system. The trip was led by Professor Adrian Hartley of the University of Aberdeen and funded by YPs that were present from various companies operating out of Aberdeen.

The late Permian sandstone at Hopeman was the first outcrop to be examined by the YPs in the morning (Figure 2). The outcrop was found to be part of a large aeolian dunes system and there was clear evidence for a complex palaeo-wind regime during deposition. YPs scrutinised the outcrop for sedimentary features relevant to fluid flow in the subsurface and lateral heterogeneities which may be similar to baffles or barriers seen in analogue North Sea reservoirs.

The cliffs and foreshore at Burghead Harbour provided a great setting for the second locality. The YPs greeted the afternoon sun, removing their jackets but donning hard hats due to the steep shoreline at Burghead.

Exposed at this locality are the Burghead Beds which are part of an extensive fluvial system which spanned must of the North Sea rift during the Triassic. The Burghead beds are the onshore equivalents of the Skagerrak Formation which is a prolific reservoir within the North Sea. Discussion at this outcrop was focussed on the predictability of fluvial successions and how this can be captured within reservoir models. The outcrop tied in with Professor Adrian Hartley’s current research interests in fluvial sedimentology and he was able to show how his work could be used by the YPs in their day jobs (Figure 3).

The third and final stop of the day was a locality on the mouth of the River Spey. The river, which is a tourist attraction for dolphin spotters, provided an opportunity for the YPs to examine modern day fluvial and shoreface processes on a small delta system. Different gravel facies were studied as well as some of the sedimentary processes associated with braided rivers. The day ended with a discussion on the conditions for development of braided and meandering systems and how these could be identified from logs and cores.

The YPs then rounded off the day back in Aberdeen where food and beverages were provided on behalf of our sponsors Chevron, Maersk and Talisman-Sinopec. Overall the day was a big success for the Aberdeen AAPG YP group and it is hoped is that the fieldtrip can become a yearly event.

Figure 1: Location map of Hopeman and Burghead relative to Aberdeen

Figure 2: YPs examining Permian aeolian dunes at Hopeman

Figure 3: Fluvial sedimentology being discussed by YPs at Burghead

Figure 4: Group photos of the fieldtrip attendees
AAPG Europe is proud to announce a Regional Conference scheduled to take place on **26-27 September 2013**. This ground-breaking event will take place in the wonderful city of Tbilisi in Georgia, located in the middle of what explorers call the Paratethys region of Central/Eastern Europe and Central Asia.

Recent years have seen a huge rise in E&P activities in regions which were previously underexplored and new frontiers for oil and gas exploration are opening up globally. This comes as a result of improved exploration technologies as well as geopolitical developments which have led to increased accessibility in some countries. Both of these factors apply to some parts of the Eastern Europe, the Former Soviet Union and Central Asia.

**Regional and topical themes:**
This conference will concentrate on the petroleum systems of the Paratethys from a hydrocarbon exploration and geoscience perspective. The geographic focus will be on the Pannonian, Black Sea, Caspian Sea basins and various Alpine folded belts and their foredeep/foreland basins in the same region including the Alps, Carpathians, Balkans, Pontides, Crimea and the Caucasus. There are many exploration topics which are unique to the Paratethys region which are captured in the session themes.

**Who should attend?**
This event will be of interest to upstream oil and gas industry professionals exploring the broader area of Central/Eastern Europe and Asia. Participation by academic researchers and students with an interest in hydrocarbon exploration and regional geology is also most welcome.
AAPG EUROPEAN REGION - UPCOMING EVENTS

Petroleum systems of the Paratethys:
Exploring the Pathway from Europe to Asia
Tbilisi, Georgia
26-27 September 2013
WEB: europe.aapg.org/2796

3P Arctic Conference & Exhibition
Stavanger Forum, Norway
15 - 18 October 2013
www.3parctic.com

APPEX Regional 2013
Ceylan Intercontinental Hotel, Athens
5-7 November 2013
www.appexregional.com

APPEX Global 2014;
Prospect and Property Conference & Exhibition
Business Design Centre, London, UK
11-13 March 2014
www.appexlondon.com

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AAPG-ER Newsletter – September 2013
Back by popular demand APPEX Regional will this year be held in Athens from the 5th – 7th November. APPEX is one of, if not the world’s best regarded non-profit Global Acquisition and Divestment (A&D) events, organised by the AAPG, which brings together upstream E&P principals, senior managers, business developers and new venture managers for an unmatched opportunity to network and do business with NOCs, Governments, financiers and global E&P deal-makers and decision-makers.

Whether you are looking to buy, sell or farmout E&P deals, expand into new areas, find new partners, meet other industry movers and shakers, or just stay on top of the industry, APPEX is the place to be.

- Meet the Right People: The key forum for networking and international deal development, carefully designed to let you meet, discuss and negotiate deals with global decision makers.
- Hear what’s going on: Explore a programme of regional and topical speakers to keep you on top of worldwide trends and discoveries; including finance forum, prospect forums, and the international pavilion.
- Buy and Sell Deals: Connect with buyers, properties and prospects from around the globe – find the next deal first.
- All under one roof: Your one-stop shop for global upstream opportunities.

Over two days, attendees will explore current and future trends in international business, new oil and gas hotspots, and discover and debate dozens of upcoming prospects from countries including:

Albania, Armenia, Azerbaijan, Bosnia-Herzegovinia, Bulgaria, Croatia, Georgia, Greece, Hungary, Israel, Iran, Iraq, Kazakhstan, Kosovo, Kyrgyzstan, Lebanon, Macedonia, Mongolia, Montenegro, Romania, Russia, Slovakia, Slovenia, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan, plus some Mediterranean Countries (Cyprus, Italy, Algeria, Tunisia, Libya, Egypt, Jordan).

All this takes place in a relaxed, friendly environment that has been carefully designed for maximum networking, allowing attendees to buy, sell and trade prospects and properties, find new strategic partners and clients, and stay one step ahead of the competition.

Get in touch with us...
Exhibition and sponsorship contact Fionn Devine, Events Organiser at fdevine@aapg.org
Conference programme contact Francesca Ghigi, Conference Producer at fghigi@aapg.org
Marketing enquiries contact Anisha Patel, Events & Marketing Manager at apatel@aapg.org

Why you should attend:
“APPEX Istanbul was a major success for EPI in respect to networking and as a result landed a substantial seismic QC land project in East Africa. EPI is very impressed by the calibre of the presenters and delegates that attended the show and it definitely met our expectations!” Charles Czajkowski, Snr Business Development Manager, EPI Group

“The 10 minute presentations for the exhibitors, in combination with the relevant sessions at the Conference, is a good opportunity for exhibitors to present prospects to the participants.” Mesut ATALAY, General Manager, Yerbil Petroleum Ltd

“Participating in APPEX was a real pleasure for me. I had opportunities to listen to relevant presentations and meet a lot of experts.” Przemyslaw Karcz, Senior Geologist, Polish Geological Institute

“It was thoroughly enjoyable and useful and all the delegates I spoke to about it said the same. Looking forward to next year’s event already!” Angus Warren, Principal, Warren Business Consulting

www.appexregional.com/athens2013
From July 7th to 12 July 12th 2013, the European Student Chapter Leadership Days has been held in the Institut Polytechnique LaSalle Beauvais. This is a meeting bringing together European students, Msc and PhD studying in the energy resources domains. These days’ aim to have conferences, oil company visits and field trips.

The initiative for this project is due to the participation of the LaSalle Beauvais Student Chapter of the AAPG in the Global Student Chapter Leadership Days which took place in July 2012 in Tulsa (Oklahoma). As the European region was the only one without such an international gathering, we decided to set up the first European-Student Chapter Leadership Days.

Working with the AAPG Europe and America, we anticipated the finding financial sponsors, participants and presenters to build what will become in the coming months the first international student meeting of the European region.

Today, TOTAL and the American Association of Petroleum Geologist (AAPG) have supported us financially. Our institution, the Institut Polytechnique LaSalle Beauvais is also an essential logistical and financial partner without whom none of this would be possible. LaSalle Beauvais provides us the accommodation, conferences rooms and meals for the entire week. For that we thank both Philippe. CHOQUET and the entire staff whom enabled us to set up this cooperation.

One of our basic aims was to work with oil world industry and to put a professional aim on our activities. Oil and gas groups such as TOTAL and GDF Suez responded positively to our call. They welcomed us in their headquarters on July 8th for conferences, forums and open tributes. These activities are coordinated by M.BLAIZOT (Exploration Director TOTAL) and I.MORETTI (GDF Suez Geologist Director) respectively.

For this we are grateful to them. The alumni network and teachers network has provided the speakers and lecturers for the conference in LaSalle.
«We wanted this year to be international for our chapter. That is why we set up this meeting. After the publication of an international newsletter written by students coming from all over the world, we made the wish to gather European students who care about the petroleum world. Today, with the support from the American Association of Petroleum Geologist, TOTAL and LaSalle Beauvais, we were able to organize the European Student Chapter Leadership Days. This was a wonderful experience full of surprises for our team!»

We have welcomed the Leicester Student Chapter, the Eötvös University Student Chapter, the Bucharest Student Chapter of AAPG, the AAPG Student Chapter Lisbon and the AAPG Student Chapter Imperial College London.

In addition to the professional activities, we were willing to promote the historical and gastronomic heritage of our country. We have alternated the oil company visits, forums, conferences and field trip with a visit of Paris and a wine and cheese tasting. The success of this event is also a result of the collaboration with the city of Beauvais which offers us to share a glass in friendship and a dinner in front of the illumination of the cathedral. Mr. O. TABOUREUX (Deputy Mayor of Beauvais) and LaSalle Beauvais’ teachers-researchers also took part of this closing ceremony. We are very proud of their long-standing support to our Student Chapter.

Organizing team members with, left to right: Alexandra Gauci (Vice-President), Pierre Malié (Treasurer) et Alexandre Lettéron (Secretary).
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President: Aurelio J. Jiménez Fernández

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Webpage: www.aftp.net
President: Isabelle Le Nir

AUSTRIAN GEOLOGICAL SOCIETY
Webpage: www.geol-ges.at

AZERBAIJAN SOCIETY OF PETROLEUM GEOLOGISTS
Webpage: www.aspg.az

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E-mail: BGDBonn@t-online.de

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