



Annual report 2014

European Federation of Geologists



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EFG Office
C/O Geological Survey of Belgium
Rue Jenner 13
B-1000 Brussels
www.eurogeologists.eu

1 EFG in brief



FÉDÉRATION EUROPÉENNE DES GÉOLOGUES
EUROPEAN FEDERATION OF GEOLOGISTS
FEDERACIÓN EUROPEA DE GEÓLOGOS

The European Federation of Geologists (EFG) is a not-for-profit organisation whose purpose is to represent the professions of geology in Europe, especially to the European Union (EU) and its various bodies. Based in Brussels, EFG was established in 1981 and includes today 24 national association members.

EFG contributes to protection of the environment, public safety and responsible exploitation of natural resources by

- promoting excellence in the application of geoscience;
- supporting research and teaching that underpins it;
- raising public awareness of the importance of geoscience to society.

Public safety, sustainable development, responsible use of natural resources, wealth creation and effective prediction, prevention and mitigation of natural hazards are best served by educated and appropriately trained professional geologists working transparently with other professionals and communicating effectively with the public. To those

ends, EFG encourages professional development by promoting training and Continuing Professional Development and offering validation (certification) through its internationally recognised title of European Geologist (EurGeol).

To fulfil its vision and values EFG considers five drivers, with the following aims:

- improving education and outreach in the field of geosciences;
- increasing professional mobility and recognition of qualifications;
- ensuring ethical professional practice;
- supporting its National membership Associations (NAs) in delivering its strategy.

In 2013, the EFG Council unanimously approved a Strategic Plan, together with a summary of the actions arising from it, for the period 2014 to 2017. The guideline for the action plans was a matrix made in 2012, which included 17 priority actions. Those actions were subsequently grouped to seven thematic sets, which represent the framework for this annual report.



2 Message from the President

2014 was a busy year. The text written by Isabel Fernández, our Executive Director, highlights that and shows the increasing number of activities EFG is engaged in. To complement that information I would like to share a vision of our future based on three inputs, and to point out the correspondent challenges.

INPUT 1

EFG is coordinating INTRAW, an ambitious project funded by the European Commission under the H2020 research and innovation program, which aims to establish the European Union Observatory for Raw Materials. The fact that the European Commission decided to fund such a project (something almost unthinkable 10 years ago) has a justification: European decision makers are noticing the impact of global (growing) competition for natural resources, and have decided to collect information. By the end of 2017 we must prepare and launch the European Union Observatory for Raw Materials. The observatory will be offering a range of information services, targeted to both public and private organisations, and it will support policy making at the European Union level. The organisational structure of the Observatory will be hosted by EFG.

INPUT 2

The need to certify professional geoscientists is growing: investors look for information they can trust, and the globalisation of the economy is pushing governments and public organisations to show that the information they have is reliable and comparable (companies have been on that track for many years). As a consequence, European countries looking for foreign investors are changing regulations and adopting reporting standards. And the United Nations is extending the resource and reserves classification framework to renewables and water (at the moment it covers oil, gas and minerals). EFG's work in promoting competence and ethics in the professional practice of geoscience through the consolidation of the EurGeol title, and the steps made

to promote the professional recognition of our colleagues working in public organisations in Europe (such as geological surveys and research centers) meet this trend.

INPUT 3

The Executive Director of the American Geosciences Institute, Pat Leahy, recently made a presentation in Berlin highlighting a (forecasted) global shortage of professional geoscientists in the coming years. Geologists' work (ranging from public works to soil conservation, water or energy) is paramount to fulfilling the needs of a growing population in a planet with limited resources (and facing climate change). I was impressed by the number of professional geoscientists in the US – 450,000; by our estimates we have 50,000 in Europe. This means the gap to meet demand will be bigger in our ranks. Naturally, geologists are globetrotters, and we all travel to where our services are required. But Europe is closer to Africa and Asia than the USA...



CHALLENGES AHEAD

Despite the spreading use of productivity tools (from iPhones to Google) we don't have more free time. I'm mentioning this because lack of time is the most common excuse I hear when I ask people to become more engaged with EFG's work. Thankfully, there are many colleagues willing and available to support EFG's initiatives, but we must improve participation. The insight collected from the (only three) inputs described shows many opportunities for geoscientists. But that comes with a price: the price of more responsibility to shape our future and a deeper commitment of us all to EFG's tasks. That's the way forward.

Vítor Correia
EFG President

A handwritten signature in black ink, appearing to read 'V. Correia'.

3 Message from the Executive Director

In 2014, the European Federation of Geologists (EFG) pursued its efforts to promote a sustainable future. The EFG Strategic Plan 2014-2017 was approved at the November 2013 Council meeting in Brussels, providing a consistent framework for our activities. The strategy outlines seven strategic actions: supporting EFG Members, European Network, Global Network, EurGeol as Competent Persons, Services, Projects and Communication. This report presents the main outcomes in each of these actions during 2014.

I would first highlight the extraordinary success of EFG in European projects, which contributes to several of the strategic actions, i.e. supporting EFG members, and consolidating European and global networks relevant for geologists. 2014 was the first year of the EU programme for research and innovation, Horizon 2020. The EFG Board identified calls of particular interest for geologists, and launched collaboration with European partner organisations elaborating concrete proposals. In particular, EFG President Vítor Correia and the External Relations Officer Eva Hartai worked hard and achieved four successful project proposals. These projects position EFG in a strategic place in the EU policy on raw materials and the implementation of the EU Directive on groundwater.

The strategic action of EFG for its members aims to increase the number of members as well as collaboration among all members. In 2014, two new associations have joined the EFG: The Czech Association of Economic Geologists, and the Polish Association of Mineral Asset Valuers. Consequently, EFG represents 24 countries today. On the other hand, thanks to the European projects approved in September 2014, EFG can further reinforce collaboration among EFG members, as they can participate in at least two of the projects.

In the European networking, the EFG Panels of Experts play a crucial role. In 2014, the panels on Resources and Reserves - Minerals and their sustainable use and on Hydrogeology have been particularly prominent for the elaboration of the European projects. The minerals panel has also supported the conference on "Establishing Europe-wide Minerals Reporting Standards – the key to reducing risk and increasing opportunity" co-organised with the Pan-European Reserves & Resources Reporting Committee (PERC) in Brussels in November 2014.

At international level, the Global network has been consolidated by two main agreements signed by EFG President Vítor Correia with the Australian Institute of Geoscientists (AIG) and the Geological Society of South Africa (GSSA). Furthermore, international collaboration has been intensified with EFG's involvement as affiliated member of the International Union of Geological Sciences (IUGS), and leading the Task

Group on Global Geoscience Professionalism (TG-GGP) that aims to act as a forum for discussion and collaboration on matters of professionalism in geoscience at a local, national, and international level.

EFG continues its efforts to reinforce the professional title of geologists in Europe.

In particular, EFG promotes the European Geologist title (EurGeol) to assure quality criteria for Competent Persons, in the framework of the implementation of the EU Directive of Mutual Recognition of Qualifications. The number of EurGeols continuing to rise reaching 1,253 title awards at the end of 2014. EFG's experience should be taken as a reference since it has established during the last 25 years a consolidated structure for the recognition of professional geologists in 18 countries through 5 National Licensed Bodies and 13 National Vetting Committees.

During the year 2014, EFG has improved services for members of EFG and EurGeols. The electronic EurGeol tool put into operation in the past year supports the EurGeols in terms of facilitating the title renewal requirements. Also in order to serve EurGeols and members training courses have been developed in cooperation with other organisations such as PERC and GEOTRAINET related respectively to mineral reporting codes and shallow geothermal energy.

Last but not least, the quality of EFG's communication tools such as the website, European Geologists Journal, GeoNews and Photo Contest has achieved a growing international recognition, fostering the visibility of EFG as a serious global partner.

EFG's staff has been restructured to better respond to the 2014 strategic actions. Anita Stein has taken up her work as Communication officer with solid professional performance and a new office assistant, Pierangelo Bianco, has reinforced the capacity of the EFG office in Brussels.

EFG relies on economic contributions by national organisations members of EFG, European Geologist fees, projects at EU and international level, and financial support by sponsors. Due to the increase of activity in all the actions aforementioned, EFG has ended the year with a better balance of the budget than foreseen, and a very encouraging economic forecast for the next few years.



Dr. Isabel M. Fernández Fuentes
EFG Executive Director



4 Organisational structure

Board

The EFG Board comprises the Officers of the EFG (President, Vice President, Secretary General, Treasurer, and External Relations Officers) elected from the officially appointed delegates. The EFG Board acts as the executive body of the Council, to carry out the approved business of the EFG, to implement policy decisions by Council and to make policy proposals.

Nieves Sánchez and Domenico Calcaterra have been confirmed in their positions as Vice-President and Secretary General at the Palermo Council meeting in May 2014. The Board members outline here their feeling about EFG's evolution in the past year and assess their personal contribution to the achievement of EFG's objectives.



Vítor Correia, Portugal
President

« 2014 was a year plenty of action. Minerals and energy remained hot issues in political speech and the launch of H2020 calls provided new opportunities for EFG. We succeeded in placing EFG as a fundamental stakeholder for the European Commission, and we are now participating in four H2020 projects. As a consequence, we obtained an important leverage to the implementation of EFG's strategic plans. Opening (and keeping) so many working fronts was only possible thanks to teamwork and many, many hours of work devoted to EFG. All our achievements are a result of the Board and Office efforts, with the Council support. Looking at EFG's aims and to the actual context (that offers so many challenges to geoscientists), I consider myself lucky for being President of EFG in 2014. Looking forward, I believe many opportunities to enhance EFG's contribution to a sustainable use of resources are just arousing. »

Nieves Sánchez, Spain
Vice-President



« 2014 has been a productive year with a clear drive to the research and development projects, creating a new cohesion instrument between the European associations. The European Commission begun a new way to increase the professional mobility through the Directive on Recognition of Professional Qualifications. This will be a big challenge for the EFG to be able to demonstrate the adaptation and social use of these international groups. About my personal contribution, I've been analysing and explaining the new situation related to this Directive, and I'd like to join forces to support professional mobility and contribute to improve the conditions for a more competitive Europe in the geological field. »



Domenico Calcaterra, Italy
Secretary General

« Year 2014 was positively characterised by the initial implementation of the Strategic Plan and by the EFG's participation in some H2020 calls for proposals. Accordingly, also thanks to the great impulse given by our President, new energy, enthusiasm, and perspectives were injected into the EFG's activity. In 2014, my contribution within the Board has been below my personal expectations, due to an increased academic workload. However, I managed to help CNG in disseminating EFG mission and EurGeol title in Italy, through some events jointly organized by CNG and Italian regional Councils. »

Eva Hartai, Hungary
External Relations Officer



« The participation of EFG in four funded H2020 projects is a great achievement. It is benefiting for the EFG budget and through the Third Party scheme, it increases the cooperation with the national member associations. It also raises the prestige and European recognition of EFG. The implementation of the Strategic Plan has also been in a good progress. My contribution has come from different approaches. As a board member, I helped the Office and the EFG President in the management of EFG matters. As for the EFG projects I took part in the preparation and implementation of almost all EFG's H2020 proposals. I have also made efforts to raise the standards of the European Geologist journal. »



Bob Hoogendoorn, The Netherlands
Treasurer

« Major development at the EFG last year has been the successful participation in the H2020 calls. This has resulted in the onset of the development of the EFG as a natural partner for the European Commission and its DG's on items such as (hydro)geology and raw materials. Being more visible in Brussels and Europe in general, has strengthened the position of the EFG, supporting us to achieve our core objectives. My role has been strictly in supporting and supervising the office on the financial management of the EFG. This includes the core tasks as well as the projects. »

Council

The Council is the governing body of EFG. It comprises two to three officially appointed delegates for each of the full members and the Officers of the EFG constituting the EFG Board. EFG holds two Council meetings per year, one official meeting in springtime, and one formal or informal meeting in autumn.

Membership status

EFG is glad to welcome two new members, the Polish Association of Mineral Asset Valuers (<http://www.polval.pl>) and the Czech Association of Economic Geologists (CAEG) (<http://www.calg.cz>), both approved

unanimously at the Palermo Council meeting in May 2014. The Slovenian Geological Society that was an Observer member during 2014 has been reinstated as a full member at the end of the year.



Delegate	Organisation
Robrecht Schmitz	Belgo-Luxembourg Union of Geologists (BLUG/ULBG)
Yves Vanbrabant	
Nuno da Silva	
Jasenska Sremac	Croatian Geological Society (CGS)
Josip Halamić	
Željko Miklin	
Antonis Antoniou	Cyprus Association of Geologists And Mining Engineers
Iordanis Dimitriadis	
Mirko Vanecek	Czech Association of Economic Geologists (CAEG)
Miroslav Raus	
Pekka Ihalainen	Finnish Union of Environmental Professionals (YKL)
Markku Iljina	
Antoine Bouvier	French Geological Society (SGF)
Jean Jacques Jarrige	
Hans-Jürgen Weyer	Professional Association of German Geoscientists (BDG)
Urlike Mattig	
Hans-Jürgen Gursky	
Xenofon Stavropoulos	Association of Greek Geologists (AGG)
Antonis Angelopoulos	
Panagiotis Sarantakos	
Csaba Baksa	Hungarian Geological Society (MFT)
Eva Hartai	
Tamas Hamor	
Péter Scharek	
Gerry Stanley	Institute of Geologists of Ireland (IGI)
Claire Clifford	
Riccardo Pasquali	
Catherine Buckley	
Marie Fleming	
Gian Vito Graziano	
Domenico Calcaterra	
Corrado Cencetti	
Bob Hoogendoorn	Royal Geological and Mining Society of the Netherlands (KNGMG)
Menno J. de Ruig	
Michiel van der Meulen	
Krzysztof Galos	Polish Association of Mineral Asset Valuers
Jacek Sobczyk	

Delegate	Organisation
António Gomes Coelho	Portuguese Association of Geologists (APG)
Carlos Almeida	
José Mário	
Vitor Correia	
Alexandr Ezhov	National Association for Subsoil Auditing (NAEN, Russia)
Giravov Shakhbulat	
Anton Chupilko	
Zoran Stevanovic	Serbian Geological Society (SGD)
Iris Vukovic	
Radoslav Vukas	
Darko Spahic	
Tivadar Gaudenyi	
Vojtech Gajdoš	Union of Slovak Geological Associations
Renata Adamcova	
Matevž Novak	Slovenian Geological Society
Uros Herlec	
Slavko Solar	
Marko Komac	
Manuel Regueiro	Official Spanish Association of Professional Geologists (ICOG)
Nieves Sanchez	
Luis E. Suarez	
Pia Hansson	Geosection (Swedish Association of Scientists, NA)
Otto Pile	
Mats Fehrm	
Georg Schaeren	Swiss Association of Geologists (CHGEOL)
Pierre Christe	
Alessandro Menegatti	
Pavlo Zagorodnyuk	Ukrainian Association of Geologists (UAG)
Volodymyr Bezvynnyi	
Olena Orlova	
David Manning	Geological Society of London (GSL)
Edmund Nickless	
Chris Eccles	
Nic Bilham	

5 Strategic actions

EFG Members

Objectives and Drivers

1. Improving engagement of NAs in EFG activities makes a stronger Federation and mobilises time and talents beyond just the Board, Officials and permanent staff to deliver EFG's aims and programme;
2. Sharing of best practice and benchmarking among professional geologists in Europe, contributes to mobility, recognition by governments and European institutions of geologists and the work that they do, and provides opportunities for continuing professional development to individual geologists;
3. Retaining members protects EFG's core budget;
4. Recruiting additional members will either bring in more revenue allowing the annual budget to be met and with more contributions, fees can be reduced.



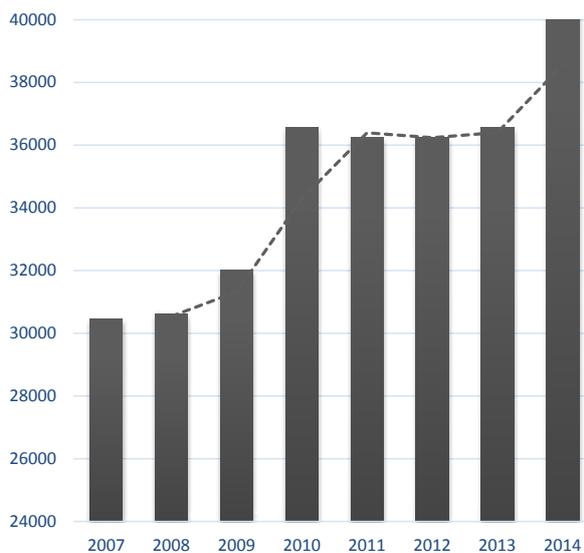
Outcomes

1. Developing a more cohesive Federation with shared objectives and a strong sense of mutual support;
2. Sharing the work involved in delivering the EFG strategic plan beyond just the Board, Officials and permanent staff – doing more by mobilising more resources from member associations;
3. Providing central services to member associations that lack resources to develop for themselves;
4. Facilitating mutual support between groups of member associations to pool resources or learn from each other.

Statistics

The following chart shows the evolution of EFG's total membership number since 2007. The second chart lists the distribution of EFG's membership

figures by country. In 2014, EFG represented through its national member associations a total of 40,552 geologists.



Source: EFG Office. Data provided through national association reports

Figure 1: Evolution of EFG's total membership number.

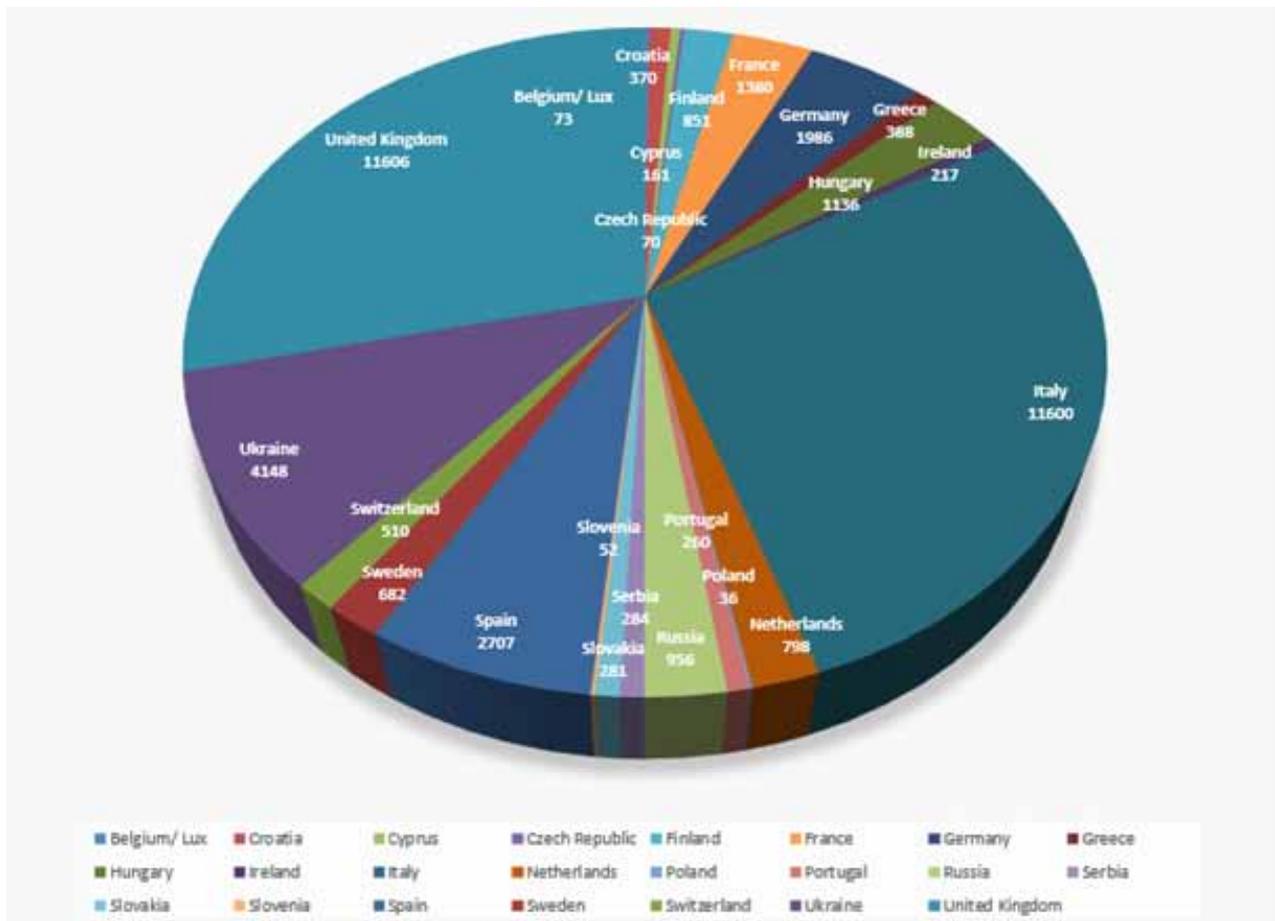


Figure 2: EFG's national association members by country.

Member profiles

The following pages give the floor to EFG's 24 national membership associations. Delegates comment their feelings about EFG's evolution in the past year and assess their association's and/or their personal contribution to the achievement of EFG's objectives.



Belgo-Luxembourg Union of Geologists (UBLG/BLUG)
www.blug-ublg.be

The Union represents the geologists of Belgium and Luxemburg. It aims to promote the profession in many fields, establishes contact with the local, federal and international authorities if needed. Beside the professionals, the organisation has student membership and helps them to find a job. It also assists geologists with their professional development, to obtain the label of 'European geologist' in order to facilitate geologists working abroad. The Union organises annual field trips and study days.



Croatian Geological Society (CGS)
www.geologija.hr

The Society was established in 1951 as a voluntary professional association of geologists and persons interested in geology. The Society involves twelve thematic sections from different fields of Earth sciences. The members of the Society work in different academic and professional institutions, and there are also student and senior members. The Society regularly organises internal and public scientific conferences. It also monitors the position of geology in public education and makes publications in different scientific and public papers. It also initiates public discussions on questions related to geology in order to make the profession better known.



Cyprus Association of Geologists And Mining Engineers
www.geomines.org.cy

The Association involves the professionals from different fields of Earth sciences. Members of the organisation are mostly engineers. The Association also deals with environmental questions related to mining. Members of the Association regularly take part in public events like the European Minerals Day in order to raise the public awareness for mineral resources. They regularly organise national and international conferences on different topics like climatic effects of volcanoes, application of remote sensing and geoinformation in environmental fields, etc.



Czech Association of Economic Geologists
www.calg.cz

« CAEG has started to cooperate with EFG only in the second half of 2014. In connection with our very short experience, we are able just to express our positive feelings about EFG's activities in the past year. Due to this short period of the cooperation, our contributions to the achievement of EFG's objectives were very small. »

Mirko Vaněček, President of the Czech Association of Economic Geologists



Finnish Union of Environmental Professionals (YKL)
www.ykl.fi

« The feeling is good - EFG has activated in many questions. »



Professional Association of German Geoscientists (BDG)
www.geoberuf.de

« From the German (BDG) point of view, EFG has done quite well in 2014. This is in great part due to the good job that the very active President Vítor Correia is doing, especially with respect to the HORIZON 2020 programme of the EU, in continuation of the equally good job done by past President Ruth Allington. Despite of the limited financial and personal capacities of BDG, in comparison to other member federations, BDG has contributed several efforts to concretely foster EFG, on different levels, e. g.:

- Active participation of BDG in the project INTRAW and support for the project KINDRA (both within the frame of HORIZON 2020),
- Implementation of the agreement with BDG Bildungsakademie (advanced training academy) which, among others, will open the 2015 Meggener Rohstofftage (Meggen Raw Materials Congress) to EFG members,
- Permanent propagation of EurGeol title,
- Support for EFG brochure «Geology for Society» by an extensive German translation,
- In-federation activities like participation in the Panel of Experts, Editorial Board of European Geologist Journal and the Council Meetings in Palermo and Brussels. »



French Geological Society (SGF)
www.sgfr.org

« SGF noticed a positive development of the applied activities related to the H2020 projects. Communication from EFG sent to the National Associations was improved, concerning wider domains in Geosciences. The new SGF President is willing, through the SGF web site, to increase the EFG awareness among the SGF members and the Geosciences Community. A second French Delegate, Remi Bosc, an active mining geologist will follow and will participate to the EFG objectives achievement. »



Association of Greek Geologists (AGG)
www.geologist.grog

« We consider EFG's activities for the past year as positive and constructive. It is essential for professional geologists besides the National Bodies to have a recognised body such as EFG active in most of economy sectors in which geologists are active. »



Institute of Geologists of Ireland (IGI)
www.igi.ie

The Society was founded in 1848. Its aim is to represent the interests of geologists, to promote continuous scientific and practical training of geoscientists, to study and to safeguard the cultural heritage linked to geological exploration and mining, to discuss the initiatives and proposals of the members, and to forward them to the decision makers. They organise workshops each month and conferences quarterly.



Hungarian Geological Society (MFT)
www.foldtan.hu

The Society was founded in 1848. Its aim is to represent the interests of geologists, to promote continuous scientific and practical training of geoscientists, to study and to safeguard the cultural heritage linked to geological exploration and mining, to discuss the initiatives and proposals of the members, and to forward them to the decision makers. They organise workshops each month and conferences quarterly.



Italian National Council of Geologists (CNG)
www.cngeologi.it

« The EFG has become, at least in Italy, an entity less «distant» than in the past. The events organised to raise awareness of the EFG and its activities contributed to this. Also in participation in research projects many progresses have been made and EFG is now present in various projects (¡VAMOS!, Minatura2020, Kindra, INTRAW). Unfortunately, the scarcity of adequate institutional funds is still a limit to the potential of the EFG. The contribution of Italian Association (Italian National Council of Geologists) was remarkable, both in the field of real participation in the activities of the EFG (the General Secretary Domenico Calcaterra is a member of CNG), and in the field of promotion and advertising in Italy of the activities of EFG (through the organisation of congresses and dedicated conferences). In 2014, Italy organised also the Annual Meeting (Palermo). »



Royal Geological and Mining Society of the Netherlands
www.kngmg.nl

« In the past year, EFG actively pursued roles in EU-projects, focusing on communication, outreach, etc. Projects have been won, and EFG managed to mobilise national associations that never actually considered doing projects. For both achievements, EFG can be proud of itself. When furthering this strategy, it is important that EFG keeps to its role as a professional organisation (to impartially and independently represent the profession as such), and avoids even the suggestion of being in competition with the organisations that employ the geoscience professionals it represents. Clear communication about this is paramount. KNGMG has established the Dutch national vetting committee for the EurGeol title, of which I am member. Our focus in 2014 has been on getting the committee operational. The next challenge will be to promote accreditation: you will see quite a number of applications in 2015. »
Michiel van der Meulen



Polish Association of Mineral Asset Valuers
http://www.polval.pl

« The Polish Association of Mineral Asset Valuers, PAMAV, was admitted to EFG in May 2014, so it is hard for us to assess all EFG activities in 2014. PAMAV recognises EFG's outstanding activity in H2020 calls (with high success rate), strong international cooperation (especially of EFG Board members), and successful Min Win-Win conference. As PAMAV is a new EFG member, our contribution to EFG activities was limited yet, but in future, we would like to concentrate especially on H2020 projects (as Third party), EurGeol qualification system, and Panels of Experts. »
Krzysztof Galos



Portuguese Association of Geologists (APG)
www.apgeologos.pt

« In the past year, EFG's evolution has been noteworthy, namely by its focus on Horizon2020 opportunities, the maintenance of initiatives that promote unity within the profession and the association with several networks. Other than spreading the word about EFG's activities, the Association of Portuguese Geologists has made an effort to assess their members' interests as professionals, as well as contributed to increase public and political awareness towards geological practice. »



Russian National Association for Subsoil Use Auditing (NAEN)
www.naen.ru

There were organisational changes within NAEN, but the new director Artur Rastrogin looks forward to a closer cooperation with EFG in the future.



Serbian Geological Society (SGD)
www.sgd.rs

« The workshops held by EFG in the past year have once more established the Federation as a true voice of European geologists, addressing both the status of the profession itself as well as the most important matters in geology at the moment. This will continue with the projects within Horizon 2020 where our Association will play a more active part in fulfilling the EFG's goals. »



Slovenian Geological Society (SGD)
www.zrc-sazu.si

The Slovenian Geological Society is part of the Research Centre of Slovenian Academy of Sciences and aims to promote Geological Science in Slovenia. It regularly organises workshops and conferences and also supports earth-science-related projects. It also make consultations with the authorities on matters related to geology.



Official Spanish Association of Professional Geologists (ICOG)
www.icog.es»

« The ICOG considers EFG's actions during the last year as very relevant and encouraging, improving the management procedures and developing new instruments to disseminate the European research projects. These actions generate benefits for all professional geologists and support the cohesion of the professional associations. The ICOG has been working for more participation and transparency in all actions we implement and execute. At the same time, we contribute to the international pooling contacting with other countries, like in Latin America; participating in many international meetings; and looking for synergies between different countries to support a better governance in the geological professional market. »



Geosection (Swedish Association of Scientists, NA)

www.naturvetarna.se

« The Swedish association works 100% on a volunteer basis and unfortunately, the board is very busy at the moment on their regular jobs. We have difficulties to reach our internal goals and our EFG work and contribution has been forced to stand back. However, we think EFG is doing a wonderful job. But we also think that the associations from the different member countries have very different possibilities to contribute to the work of EFG, which we think should be addressed, and which we hope there is an understanding for. We hope to be able to contribute more in the future but for now we need to concentrate on our internal work. »



Swiss Association of Geologists (CHGEOL)
www.chgeol.ch

« The clear strategy of EFG permits to concentrate on an effective way the resources and efforts. In this sense, the participation of EFG – initialised on 2014 – to the H2020 projects INTRAW and KINDRA represents an important achievement that will enhance the visibility and influence of EFG in the European Community. Since there are strong matching assets between EFG's and CHGEOL's strategy and many of the "daily challenges" – regarding the visibility of our activity, the support to the community of geologists as well as regarding the influence up to relevant decision-making bodies – are similar, the activities of CHGEOL (and my personal) on the national scale contemporaneously represent a contribution to the achievement of EFG's objectives. »

Alessio Menegatti



Ukrainian Association of Geologists (UAG)
www.geolog.org.ua/en

The objectives of the organisation are to assist the development of the geological exploration activities in Ukraine, to promote the exchange of professional experiences at national and international levels. The Association also represent the interest of its members at authorities and legislative institutions. It regularly organises national and international conferences.



Geological Society of London (GSL)
www.geolsoc.org.uk

« We are delighted to see EFG building on its November 2013 strategy, and taking significant steps forward during 2014. Its success in proposing projects under the EU's Horizon 2020 framework is a great achievement, and will help EFG strengthen further its dialogue with and support for its National Associations. We are excited to be working with other National Associations on preparing a European edition of our 'Geology for Society' report, to launch in 2015. »

Edmund Nickless and Chris Eccles, UK delegates to EFG



European Network

Objectives and Drivers

1. Increasing the visibility of EFG among EU institutions and EFG's capabilities to influence the EU in policy development regarding geosciences related issues;
2. Building and maintaining an updated database of contacts in European institutions;
3. Reinforcing EFG's capability to act as facilitator to NAs.

Outcomes

1. Reinforcing EFG's role in the development of EU policies that relate to the geosciences;
2. Building awareness of EFG among European Commission officials;
3. Reinforcing EFG's collaboration with kindred European associations;
4. Reinforcing communication between EFG, the NAs and relevant national organisations such as Geological Surveys or industry associations;
5. Reinforcing EFG's role to set standards for geologist's professional practice under European guidelines.



Panels of Experts

EFG's Panels of Experts (PE) have been set up to provide high quality advice and information to the European Commission (EC), to the European Parliament, to international NGO's and to global professional associations, to participate in EC congresses, working groups and consultation meetings. In addition, they should proactively respond to relevant issues in the press and to those items on the European Commission and European Parliament agenda. Furthermore, in all these activities it is the intention to take every opportunity to emphasize the importance of geology to society, the benefits of incorporating geological advice and to promote the importance of the geoscientific profession.

The participation of experts is on a voluntary basis. The advantage for the participating experts is their active involvement in a European and/or worldwide network of experts with the same specialty. Although in most cases several of these specialist networks already exist, the EFG expert panels are different, because they mainly focus on raising the awareness of technical and professional issues and try to influence or convince politicians and decision makers to adjust their directives such that geology is taken into account.

The different PEs are listed below and more information on their activities may be found on the EFG website www.eurogeologists.eu in the section "Panels of Experts".

PE on CO₂ Geological Storage

Coordinator

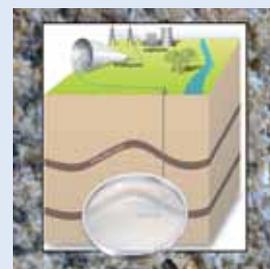
Kris Piessens (Belgium), kris.piessens@naturalsciences.be

Members

Kris Welkenhuysen (Belgium), Nuno da Silva (Belgium & Portugal), Gyorgy Falus (Hungary), Deirdre Lewis (Ireland), Nick O'Neill (Ireland), Federico Spagnoli (Italy), Henk J.M Pagnier (NL), Ilka von Dalwigk (Sweden), Juan Alonso Aparte (Spain), Marjeta Car (Slovenia), Miloš Markič (Slovenia), Tonči Grgasović (Croatia), Nikolaos Koukouzas (Greece)

Mission

The mission of the PE on CO₂ Geological Storage is closely aligned with the principal objectives of the European Federation of Geologists, which are representing, safeguarding and promoting the geological profession, promoting best practices and responsible use of resources, and establishing policies on environmental matters and sustainability. The current development of Carbon Capture and Storage makes these objectives highly relevant for the topic of CO₂ storage. The success of CCS will largely depend on how reliably CO₂ can and will be stored, justifying the dedicated mission of the PE CO₂ Geological Storage: emphasizing the role of professional geologists and the importance of the geological perspective in the overall concept of carbon capture and storage.



PE on Education

Coordinator

Eva Hartai (Hungary), foldshe@uni-miskolc.hu

Members

Roberto Greco (Italy), Hans-Jürgen Gursky (Germany), Ferenc Mádai (Hungary), Eamonn Grennan (Ireland), Antonio Pisciueneri (Italy), Filomena Amador (Portugal), Clara Vasconcelos (Portugal), Chris King (UK), Frances Wall (UK), Gordon Neighbour (UK), José Ignacio Escavy Fernandez (Spain), Juan Remondo Tejerina (Spain), Jorge Loredo (Spain), Manuel Regueiro y González-Barros (Spain), Mirko Vanecek (Czech Republic), Anna Liventseva (Ukraine), Nenad Banjac (Serbia), Nina Zupančič (Slovenia), Mirijam Vrabc (Slovenia), Petra Žvab Rožič (Slovenia), Renata Brezinščak (Croatia), Konstantinos Voudouris (Greece)



Mission

The PE on Education was established in 2011. It intends to deal with educational questions in geology (earth sciences) at all education levels from primary school to postgraduate courses. In 2015, the Panel plans to make a survey on geology in school education, public courses and outreach activities in the countries represented by the panel members. The results will be combined with another survey involving university students in order to know how these factors influence university and career choice.

PE on Geological Heritage

Coordinator

Mónica Sousa (Portugal), msousa@apgeologos.pt

Members

Hanneke Van den Ancker (Netherlands), Dave Harper (Denmark), Jörg Matschullat (Germany), Ulrike Mattig (Germany), Alecos Demetriades (Greece), Helgi Torfason (Iceland), John Morris (Ireland), Loreto Farrell (Ireland), Alessandro Torre (Italy), Branka Hlad (Slovenia), Pierre Gander (Switzerland), John Gordon (UK), Stephen J Cribb (UK), Juan Poch (Spain), Jurgen Amor (Spain), Vit Strupl (Czech Republic), Pablo Irizar (Spain), Alain Dassargues (Belgium), Tamara Borisenko (Ukraine), Aleksandra Maran Stevanović (Serbia), Martina Stupar (Slovenia), Suzana Fajmut Štrucl (Slovenia), Mojca Bedjanič (Slovenia), Miha Jeršek (Slovenia), Lidija Galović (Croatia), Marija Bošnjak Makovec (Croatia), Avraam Zelilidis (Greece)



Mission

This panel contributes to the development of European Policies to protect the geological heritage in Europe. In collaboration with other organisations it has contributed in preparing advice documents, scientific events and dissemination activities.

PE on Geothermal Energy

Coordinator

Janos Szanyi (Hungary), szanyi@iif.u-szeged.hu

Members

Dirk De Coster (Belgium), Estelle Petitclerc (Belgium), Christian Boissavy (France), Burkhard Sanner (Germany), Detlev Doherr (Germany), Gareth Ll. Jones (Ireland), Riccardo Pasquali (Ireland), Roisin Goodman (Ireland), Pedro Madureira (Portugal), Nick O'Neill (Ireland), José Martins Carvalho (Portugal), Frank Schilling (Germany), José Angel Sanchez (Spain), Isabel Fernandez (Spain), Dejan Milenić (Serbia), Nina Rman (Slovenia), Andrej Lapanje (Slovenia), Dušan Rajver (Slovenia), Staša Borović (Croatia), Apostolos Arvanitis (Greece)



Mission

The EFG Panels of Experts on Geothermal Energy contributes to the development of European Policies of interest to geologists and geological issues around the European policy on Geothermal Energy. The panel has Identified as sensitive problems in geothermal energy sector:

- technological innovation
- predictable and coherent legislation
- training and promoting

PE on Hydrogeology

Coordinator

Marco Petitta (Italy), marco.petitta@uniroma1.it

Members

Dirk De Coster (Belgium), Alain Dassargues (Belgium), Antoine Bouvier (France), Christian Boissavy (France), Alecos Demetriades (Greece), Peter Szucs (Hungary), Tamas Madarasz (Hungary), Kevin Th .Cullen (Ireland), Carlo E. Bravi (Italy), José Martins Carvalho (Portugal), Peter Malik (Slovakia), Clive Carpenter (U.K.), Pierre Christe (Switzerland), Carlos Martínez (Spain), Roberto Greco (Italy), Myhaylo Gejchenko (Ukraine), Vesna Ristić Vakanjac (Serbia), Mihael Brenčič (Slovenia), Melhior Pregl (Slovenia), Nina Mali (Slovenia), Kosta Urumović (Croatia), Tatjana Vlahović (Croatia), Triantafillos Kaklis (Greece)

Mission

Hydrogeology is a main topic among technical and professional skills of the geologists, and it is probably the most strictly related to the environmental protection and preservation. In the 21st century, the pursuit of the equilibrium between human needs and environmental sustainability involves as a main element the water resources, representing at the same time a resource and a risk. It is a task of modern geologists to contribute to the management and protection of water resources, with particular attention to groundwater. The PE on Hydrogeology's mission is to contribute to the development of knowledge, to the introduction of policies and to the technical improvement of professional geologists in this field.



PE on Natural Hazards and Climate Change

Coordinator

Pavlos Tyrologou (Greece), pavlos.tyrologou@gmail.com

Members

Andy Gibson (UK), Antoine Bouvier (France), Detlev Doherr (Germany), Dimitris Papanikolaou (Greece), Steve Parry (Hong kong), Péter Scharek (Hungary), Domenico Calcaterra (Italy), Corrado Cencetti (Italy), Marino Trimboli (Italy), Piero Farabollini (Italy), Nazzareno Diodato (Italy), Dinand Alkema (Netherlands), Brecht B.T. Wassing. (Netherlands), Cees J. van Westen (Netherlands), Ricardo Oliveira (Portugal), Robert Lilljequist (Sweden), Hansruedi Graf (Switzerland), Giuseppe Franciosi (Switzerland), Hugo Raetzo (Switzerland), Martin Culshaw (UK), James S Griffiths (UK), John N. Carney (UK), Jim Cook (UK), Mercedes Ferrer (Spain), Rosa Maria Mateos (Spain), Juan C. Garcia-Davalillo (Spain), Roberto Alvarez de Sotomayor Matesanz (Spain), Tamás Oszvald (Hungary), Olga Teodorovich (Ukraine), Zoran Radić (Serbia), Marko Komac (Slovenia), Barbara Čenčur Curk (Slovenia), Miloš Bavec (Slovenia), Laszlo Podolszki (Croatia), Athanassios Ganas (Greece)

Mission

The group has been established in March 2003, in relation to EC initiatives on Civil Protection, DG Environment, and has since then provided many contributions to the EC. The new coordinator of this Panel of Experts is Chartered Geologist and holder of EurGeol title on the field of Engineering and Environmental Geology. Furthermore, he is member of the Technical Committee in Engineering Practice of Risk Assessment and Management of the International Society for Soil Mechanics and Geotechnical Engineering.



PE on Resources and Reserves - Minerals and their Sustainable Use

Coordinator

Carlos Almeida (Portugal), calmeida@apgeologos.pt

Members

János Földessy (Hungary), John Clifford (Ireland), Jacek Sobczyk (Poland), Simon McCurdy (UK), Robrecht Schmitz (Belgium), Guy Franceschi (Belgium), Pierre Goossens (Belgium), Pim Demecheleer (Belgium), Todor Todorov (Bulgaria), Markku Iljina (Finland), Christian Schaffalitzky (Ireland), Eibhlin Doyle (Ireland), Zygmunt Jakubiak (New Zealand), José Mário Castelo Branco (Portugal), Romeu Vieira (Portugal), Radoslav Vukas (Serbia), Slavko Solar (Slovenia), José Ignacio Escavy Fernandez (Spain), Robert Lilljequist (Sweden), Steve Henley (UK), Paul Joel (UK), Robert Howell (UK), Natanael Cuéllar González (Spain), Rubén Esteban Pérez (Spain), Eva Hartai (Hungary), Sergio Matteoli (Italy), Ruth Allington (UK), Anton Chupilko (Russia), Miroslav Raus (Czech Republic), Jaromir Stary (Czech Republic), Denis Burdin (Russia), Alexander Bobrov (Ukraine), Duška Rokavec (Slovenia), Uroš Herlec (Slovenia), Slobodan Miko



(Croatia), Duška Rokavec (Slovenia), Remi Bosc (France), Stavros Kalaitzidis (Greece), Petros Koutsovitis (Greece)

Mission

Collaboration in, a) the adoption of The Reporting Code by the major professional geological associations in Europe and its recognition as a template for an international code; and b) in the EFG participation in the United Nations Framework Classification for Fossil Energy and Mineral Resources («UNFC») adopted by the UN in June 2004.

PE on Resources and Reserves - Oil & Gas

Coordinator

Viktor Sóreg (Hungary), vsoreg@mol.hu

Members

Deolinda Flores (Portugal), Ratko Vasiljević (Croatia), Oliver Paech (Germany), István Bérczi (Hungary), Marcel Chin-A-Lien (Netherlands), Philippe Bodmer (Switzerland), John Holroyd (UK), Robert A. Lambert (UK), Nuno da Silva (Belgium & Portugal), Dusan Durica (Czech Republic), Bogdan Lelyk (Ukraine), Ivan Dulic (Serbia), Salvatore Morano (Italy), Barbara Horn (Slovenia), Miloš Markič (Slovenia), Tvrtko Korbar (Croatia), Spyridon Bellas (Greece)



Mission

The oil and gas industry plays a significant role in the supply of the world's energy demand in the 21st century. While responding to this demand it has to face serious challenges like:

- continuously rising world demand and newly emerging big consumers
- uncertain energy policy
- political constraints and competition for proven reserves
- international borders
- new operational challenges for conventional resources and reserves in deep offshore, arctic regions, etc.
- unconventional resources and technology
- worsening fiscal terms
- oil price volatility, speculations, eco-political pressures
- corporate social responsibility, health, safety and environmental risks
- climate change concerns
- competition and/or collaboration with new technologies (e.g. geothermal energy)
- R&D, innovation
- lack of experienced and skilled experts/professionals.
- potential's function change of depleted hydrocarbon reservoirs (e.g. to CCS, UGS, geothermal energy production)
- exploration of upside potentials in mature accumulation zones
- advanced portfolio management techniques in hydrocarbon exploration in low oil price environment

PE on Soil Protection

Coordinator

Maria Jose Rubial Fernandez (Spain), mjrubial@gmail.com

Members

Pavlos Tyrologou (Greece), Luciano Fabio Torre (Italy), Malcolm Doak (UK), Cristina Roel Alfonso (Spain), Pablo Irizar (Spain), Sergio Navarro Alonso (Spain), Endre Dobos (Hungary), Péter Sörös (Hungary), Robrecht Schmitz (Belgium), Gyozo Jordan (Hungary), Zoran Nikić (Serbia), Mateja Gosar (Slovenia), Ajka Šorša (Croatia), Basile Christaras (Greece)



Mission

The role of geologists in soil protection covers a wide range of topics. On the one hand, the geological sciences address soil-forming processes, and these include those that underpin soil fertility and carbon capture in soils. Manipulation of these natural processes includes the sourcing of mined fertilizer products (for which there is increasing demand given population growth) and understanding their function in soils. On the other hand, soil protection covers the remediation of soils contaminated by human activity, starting from recognition of harm and evaluation of the associated risks, and leading where necessary to the design and execution of engineering works to make a soil safe and to deliver a new function. Extending from site-specific tasks, the geologist plays an important role in understanding soil processes globally, in the context of the overall Earth System. In this work, the geologist has to work closely with professionals from other disciplines, including life scientists, ecologists, geographers, hydrologists and civil engineers, as well as planners and land-use specialists.

Conferences

In 2014, EFG co-organised two major events, the workshop “Geologists of Europe in the third millennium” and the MIN WIN-WIN conference.

On 29 and 30 May, the Italian National Council of Geologists (CNG) in collaboration with the European Federation of Geologists organised in Palermo the international workshop “Geologists of Europe in the third millennium”. The workshop intended to be an open forum on the current state of the geological profession for the various national organisations representing the profession within the European Federation of Geologists.

From 20 to 21 November, the European Federation of Geologists (EFG) and the Pan-European Reserves & Resources Reporting Committee (PERC) co-organised in Brussels the international high-level conference “MIN WIN-WIN: Establishing Europe-wide minerals reporting standards – the key to reducing risk and increasing opportunity”. The two-day event was held at the Royal Belgian Institute of Natural Sciences and was supported by a broad range of organisations active in the field of minerals and mining. The organisers and keynote speakers concurred that the broad recognition of the European PERC standard, which is based on the international template provided by CRIRSCO, together with the improvement of communication between investors, regulators



and industry, and the systematic involvement of Competent Persons for reporting, are crucial for winning the confidence of public institutions and society. Only a pan-European approach fully compatible with

the international reporting template (CRIRSCO) and the United Nations Classification Framework (UNFC) may help European states in facing the challenges arising from globalisation and increasing raw materials scarcity. In this context, the European Federation of Geologists can play a major role by providing accreditation for qualified persons within its 24 member states. The presentations given are available at <http://eurogeologists.eu/min-win-win-conference>.

In addition, EFG participated in several events relevant to the profession. For the first time, EFG was present at the EGU General Assembly as an exhibitor. The EGU General Assembly is the most relevant geosciences event in Europe and was held from 27 April to 2 May 2014 in Vienna. EuroGeoSurveys (EGS) generously invited EFG to join its booth.

Vítor Correia, EFG President, and Ruth Allington, EFG Past President and current PERC Treasurer, were moderators in two sessions of the “Workshop on best practices on mining policies and technologies”, organised by the European Commission (DG Enterprise and Industry). The workshop was held in Brussels on 12 and 13 June and was attended by high-level representatives from the national authorities and industry from Australia, Brazil, Canada, Mexico, Peru, Chile, USA and the EU.

EFG President Vítor Correia and Executive Director Isabel Fernández Fuentes furthermore represented EFG at innumerable meetings organised by international and European institutions or other important geosciences players, such as the UNFC Expert Group meeting, the Operational Groups meeting of the European Innovation Partnership on Raw Materials, the ERA-MIN stakeholders conference, the Minventory workshop, the Minerals 4EU workshop, the EGS Mineral Resources Group or the Geotrainet Stakeholders meeting.

Publications

EFG President Vítor Correia gave an interview to the journal ‘International Innovation’ where he explains the role EFG plays in the promotion of high standards of professional practice and in the dissemination of geological information throughout Europe. International Innovation, published by Research Media, is the leading global dissemination resource for the wider scientific, technology and research communities, dedicated to disseminating the latest science, research and technological innovations on a global level. The article is available at [http://www.](http://www.research-europe.com/index.php/2013/12/vitor-correia-president-european-federation-of-geologists)

[research-europe.com/index.php/2013/12/vitor-correia-president-european-federation-of-geologists](http://www.research-europe.com/index.php/2013/12/vitor-correia-president-european-federation-of-geologists).

Executive Director Isabel Fernández Fuentes wrote a foreword on “The potential of Geothermal energy for a non-fossil heating system” for the magazine Cleantech Business News. She is also co-author of an article on the potential of geothermal energy for the magazine Pan European Networks Government (<http://www.paneuropannetworkspublications.com/GOV12/#170>).

Global Network



Objectives and Drivers

1. Share and benchmark best practice among geoscience organisations (professional, technical, scientific, etc.);
2. Seek opportunities to develop international standards based on the concept of Qualified Person or Competent Person, to ensure delivery of high levels of professional competence (see also the Strategic Action Plan VII EurGeol Competent Person);
3. Develop a common and reciprocal process for the mutual recognition of professional qualifications among kindred professional geological bodies;
4. Develop a common code of ethics for all professional geologists;
5. Attract NAs from outside Europe to join EFG, initially as Observer Members.

Outcomes

1. Widen recognition and acceptance of standards based on individual professional competence;
2. Ensure the recognition of the EurGeol title and the mobility of Eurogeologists in Canada, USA, South America, Asia and Africa;
3. Reinforce the EFG network with scientific and professional geoscientific organisations.

TGGGP

As one of its sponsoring organisations, the European Federation of Geologists continues to support the Task Group on Global Geoscience Professionalism (“TG-GGP”) and backs its activities through administrative support. One of the first activities of 2014 was participation in the 67th IUGS Executive meeting in Goa, India (8-10 February 2014) where a presentation was given on the objectives and activities of the Task Group. Talks on the Task Group’s activities were given at several other occasions. In autumn 2014, the Task Group produced a leaflet outlining its mission, vision and activities to the wider public. The leaflet was



presented at the GSA 2014 meeting in Vancouver, Canada (19-22 October 2014). More information: <http://tg-ggp.org>

Formed by the International Union of Geological Sciences (IUGS) at the 34th International Geological Congress in Brisbane, Australia, in August 2012, the TG-GGP provides a single global forum for interchange on professional affairs in geoscience worldwide. Its main purpose is to ensure that geoscientists, active in all areas of geoscience, are fully engaged in the transformation of their profession – a profession that is increasingly relied upon by the public to provide expert opinions and service, and to safeguard the public interest.

PERC



EFG also continues to provide administrative support to PERC. The 2014 Annual General Meeting of PERC was held in Dublin on 29 March in the IGI installations with the presence of representatives from EFG, GSL, IGI, and IOM3.

One-day training workshops on “Best Practice for Assessment and Reporting of Exploration Results, Mineral Resources and Mineral Reserves” led by Edmund Sides from AMEC were held in Dublin (March), in London (October) and in Brussels (November). Steve Henley led

The Pan-European Reserves & Resources Reporting Committee, PERC, is the organisation responsible for setting standards for public reporting of exploration results, mineral resources, and mineral reserves by companies listed on markets in Europe. It is a member of CRIRSCO, the Committee for Mineral Reserves International Reporting Standards, and the PERC Reporting Standard is fully aligned with the CRIRSCO Reporting Template. PERC is established formally as a not-for-profit organisation (‘asbl’) registered in Brussels by its four founding professional organisations, the Institute of Materials, Minerals, and Mining (IOM3), the European Federation of Geologists, the Geological Society of London, and the Institute of Geologists of Ireland.

a half-day reporting standards Masterclass for a group of Russian candidate members of IOM3 in London on 17th October.

In September, PERC officials successfully established PERC as a core participant of the EU Horizon 2020 INTRAW project that aims at developing international co-operation on raw materials with Australia, Canada, Japan, South Africa and the USA. October 2014 saw the CRIRSCO AGM at Ulaanbataar in Mongolia. The event was attended

by the PERC representative on CRIRSCO, Eddie Bailey, and Deputy Chair Neil Wells. Eddie Bailey presented an update on the work of PERC and intentions to outreach more directly to European members and neighbours, including the translation of PERC Standard 2013 into other European languages through the INTRAW project. The event was an enormous success and Mongolia was formally ratified as the 8th member (and first Asian member) of CRIRSCO. More information: www.percstandard.eu

Cooperation agreements

In November 2014, EFG signed cooperation agreements with both the Australian Institute of Geoscientists (AIG) and the Geological Society of South Africa (GSSA). The signing organisations recognise that their objectives with respect to the professional practice of the geological sciences are similar and further recognise the importance of cooperation as the practice of the

geological sciences transcends international borders. The agreements extend to one another a standing invitation for a representative of the other organisation to attend all meetings and stipulate the cooperation in developing a mechanism for the mutual recognition of standards between their continents.



GeoExpert

Objectives and Drivers

1. Promote the EurGeol title to ensure delivery of high levels of professional competence based on individual responsibility;
2. Actively seek opportunities to develop global standards promoting responsible and sustainable exploitation of geological resources, based on simple and personal warrants given by an accredited professional.

Outcomes

1. Increase the status of the EurGeol title;
2. Increase recognition of the EurGeol title at the National, European, and International levels;
3. Increase the number of EurGeol applications and the revenues from EurGeol fees;
4. Develop and implement new EU standards (or reinforcing existing ones) or certification schemes based on warrants given by EurGeols.



EurGeol title

The European Geologist title (EurGeol) is a professional title created by the European Federation of Geologists which recognises the ability to deliver a high quality of services within the practice of geology. Title holders have achieved suitable academic training and a level of professional experience, skill and competence to perform tasks within their professional practice. It also means that the geologist undertakes continuing education and training, demonstrating a personal commitment to stay up to date and informed within the sphere of their professional work.



An application for the European Geologist (EurGeol) title must be submitted through one of the EFG's Licensed Bodies that are authorised to award the title. These Licensed Bodies are the:

- Institute of Geologists of Ireland (IGI)
- Italian National Council of Geologists (CNG)
- Geological Society of London (GSL)
- Spanish Association of Professional Geologists (ICOG)
- Swiss Association of Geologists (CHGEOL)
- International Licensed Body (ILB)

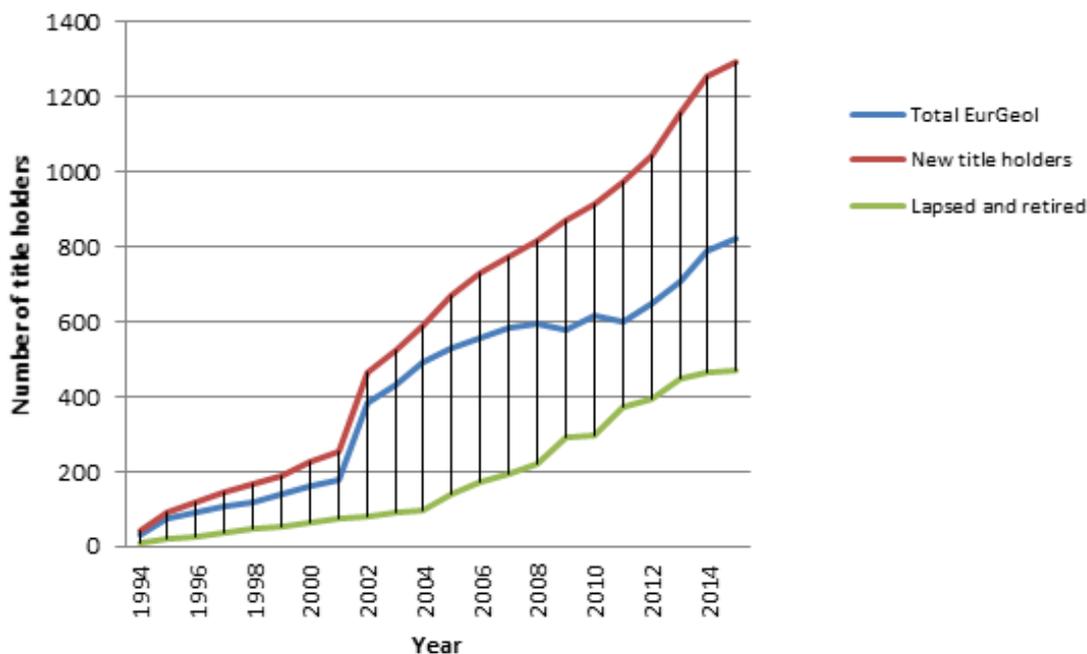
The ILB is operated by EFG for applicants who are not members of one of the above-mentioned National Licensed Bodies. The applications to the ILB need to be presented by a National Vetting Committee (NVC).

List of NVCs:

- Belgium/Luxembourg: UBLG
- Czech Republic: CALG
- Finland: YKL
- France: GSF
- Germany: BDG
- Hungary: MFT
- The Netherlands: KNGMG
- Poland: Polish Association of Mineral Asset Valuers
- Portugal: APG
- Russia: NAEN
- Serbia: SGS
- Slovenia: SGS
- Sweden: NA
- Ukraine: UAG

As the following graph shows, the European Geologist title continued to gain popularity in the past few years. In total, nearly 1300 titles have been awarded and more than 820 titleholders are currently in good standing with EFG what means that they comply with the obligation of submitting records of their Continuing Professional Development (CPD) on a regular basis.





Source: EFG Office. Data provided through national association reports.

Figure 3: EurGeol title evolution.

International recognition

Professional titles have become important in demonstrating the suitability of a professional to provide geological services. The professional title provides a quality mark to demonstrate to clients, regulators and the public that the individual is competent to provide geological advice, and allows employers to offer competitive commercial services. To adapt to the current and future challenges within the geo-political framework of the European Union, it is necessary that geologists achieve, and can demonstrate, a high degree of professional experience to be able to respond to the demands of society in practicing their profession.

Thanks to the harmonisation of training and experience underlying the EurGeol certification, the title acts as

a passport to professional practice in Europe, thereby encouraging free movement of professionals.

At international level, mutual recognition agreements have been set with the American Institute of Professional Geologists (AIPG) and the Canadian Council of Professional Geologists (CCPG). On a practical level, European Geologists are recognised by the mineral reporting authorities in Australia, Canada, Peru, South Africa, UK and the USA as professionals accredited to sign reports on mineral resources within their area of expertise and in the valuation of mining companies quoted on the Stock Exchanges.

CPD Provider agreements

Based on the agreement signed between EAGE, the European Association of Geoscientists and Engineers, and EFG in March 2013:

- EAGE promotes the EurGeol Title to its European members, and maps the EurGeol Title competency matrix with EAGE's portfolio of training and educational programmes that could support those preparing for an application or the CPD of existing title holders;

- EFG recognises EAGE as an official CPD point provider in the EurGeol title process.

In November 2013, EFG signed agreements with its national association members BLUG/UBLG (Belgium/Luxembourg) and BDG (Germany) with a view to increasing the promotion of the European Geologist title. Both associations are recognised as official CPD point providers.

Services

Objectives and Drivers

1. Enhance the dialog between EFG and its stakeholders;
2. Enhance the value for mobility of geologists both within and outside Europe;
3. Establish web services relating to the EurGeol title, allowing the holders to upload personal data and to download information regarding job offers and training opportunities, and the general public to run queries (searching for EurGeols);
4. Establish an e-learning platform and develop training courses.

Outcomes

1. Increase the status of the EurGeol title;
2. Increase the number of EurGeol applications and the revenues from EurGeol fees;
3. Increase the income from training courses and reinforce relations with NAs willing to cooperate in professional training (for example, in developing courses, teaching, promoting, publicising).



EurGeol tool

The EurGeol Tool is an electronic service for European Geologist title holders (EurGeols). EFG has created an electronic system allowing companies and organisations to search for EurGeols active in one specific country and/or one specific professional geology domain. The section 'EurGeol searcher' provides information about all European Geologists registered and validated by EFG. In the section

'EurGeol Service', European Geologists can complete their annual record of Continuing Professional Development (CPD) online, and create their electronic CV or visit card. In terms of quality control, each EFG Licensed Body can supervise and audit the EurGeol's CPD records in the section "Licensed Bodies service". Each Licensed Body has access to the details of the EurGeols registered in its organisation.

E-learning platform

The EFG e-learning platform has been established in 2012 with the aim of providing a forum for electronic training for geoscientists.

Since 2013, the platform hosts a course on CO₂ capture and storage (CCS). It provides in-depth understanding of

the role of CCS in the climate change mitigation portfolio, the technical approaches on CO₂ capture and transport, the science behind geological storage, site selection and risk evaluation, and the role of policy in establishing market and business opportunities for CCS.

Training

As a further service towards its members, EFG co-organised and promoted different training opportunities in 2014.

Complementary to the MIN WIN-WIN conference, a one-day training workshop on "Best Practice for Assessment and Reporting of Exploration Results, Mineral Resources and Mineral Reserves" led by Edmund Sides from AMEC was held in Brussels on 19 November. The fully booked course provided an introduction to the principles underlying the reporting codes and standards based on the PERC Reporting Standard 2013.

The Geotrained association, of which EFG is one of the founding members, organised training courses in Lisbon (7 and 8 October) and Madrid (5 and 6 November). The training programme is aimed at Ground Source Heat Pump (GSHP) installers and designers and shall provide the market with trained experts in the field of shallow geothermal technology who can design, install and operate efficient systems.

Projects

Objectives and Drivers

1. Ensure funding of EFG's current activity through participation in dissemination tasks (or management/co-ordination tasks) of EU funded projects where there is a geoscience element;
2. Strengthen the bond between the EFG, the NAs and national entities (countries and organisations in Europe and elsewhere) related to innovation and R&D;
3. Enhance the prestige and credibility of the EFG within the EU institutions, businesses and institutions of R&D;
4. Involve as (staff and individual members with appropriate expertise) for their financial benefit.

Outcomes

1. Build on the existing accumulated project surplus funds to allow funding of all EFG non-core (investment) activities;
2. Make at least a 40% contribution to core funding before 2017 allowing reduction of NA fee budget;
3. Enhance the competences of EFG in communicating to the public, the community of geoscientists and decision makers;
4. Enhance the competences of EFG in the preparation of applications for EU funded projects and in delivering excellence as a project partner or co-ordinator;
5. Strengthen EFG relationships with NAs, Laboratories and Universities of the countries (European or not) involved in the applications/projects;
6. Establish EFG and its member NAs as 'first choice' partners for pan European dissemination of geoscience topics and leading to a 'pipeline' of unsolicited invitations to participate.



In 2014, two EU-funded projects with EFG participation came to an end. From



February 2011 to February 2014, the European Federation of Geologists has participated in the PanGeo project funded within the 7th European Framework Programme and coordinated by NPA Satellite Mapping LIMITED. PanGeo provides free access to geohazard information for many of Europe's largest cities.

More information: <http://www.pangeoproject.eu/home>

EFG was also involved in Terrafirma, a project supported by the European Space Agency's (ESA), Global Monitoring for Environment and Security (GMES) Service Element Programme. Terrafirma aims to provide a Pan-European ground motion information service that provides identification, assessment, understanding and monitoring of ground motions in the thematic areas of Tectonics, Flood and Hydrogeology (including abandoned and inactive mines as well as landslides).



More information: <http://www.terrafirma.eu.com>

From 2008 to 2011, the European Federation of Geologists was the co-ordinator of the GEOTRAINET project, a 30-months project co-financed by the European



Commission's "Intelligent Energy – Europe". Geo-Education for a sustainable geothermal heating and cooling market (GEOTRAINET) aimed to develop training of professionals involved in Ground Source Heat Pump installations (GSHP). The official activity of this project ended in February 2011 but members of the project consortium decided to capitalise on the results and knowledge harnessed by this project. On 2 April 2014 the new GEOTRAINET international not-for-profit association under Belgian law (aisbl) was officially established. The funding members of this new association are: European Federation of Geologists (EFG), European Geothermal Council (EGEC), ANIG (Italy), RGS (Romania), BWP (Germany), GEOPLAT (Spain), SGC (Sweden), APG (Portugal), HHPA (Hungary). EFG and EGEC manage the secretariat of this new organisation. On 9 October, GEOTRAINET AISBL held its first General Assembly in Lisbon, Portugal. During the meeting, two new members were approved: BRGM (France) and the Ground Source Heat Pump Association (UK). Two training courses were organised in 2014: on 7 and 8 October in Lisbon and on 5 and 6 November in Madrid.

More information: www.geotrainet.eu

In March 2014, EFG was formally admitted by ERA-MIN as an associated partner. ERA-MIN is a network of European organisations owning and/or managing research programs on raw materials. ERA-MIN's objectives are to contribute to overcome the current state of fragmentation and to foster research in the field of industrial production and supply of raw materials by:

- Networking stakeholders
- Roadmapping research priorities
- Implementing joint actions.

As an Associate, EFG commits itself to applying its best efforts to supporting the goals, tasks and activities of ERA-MIN.

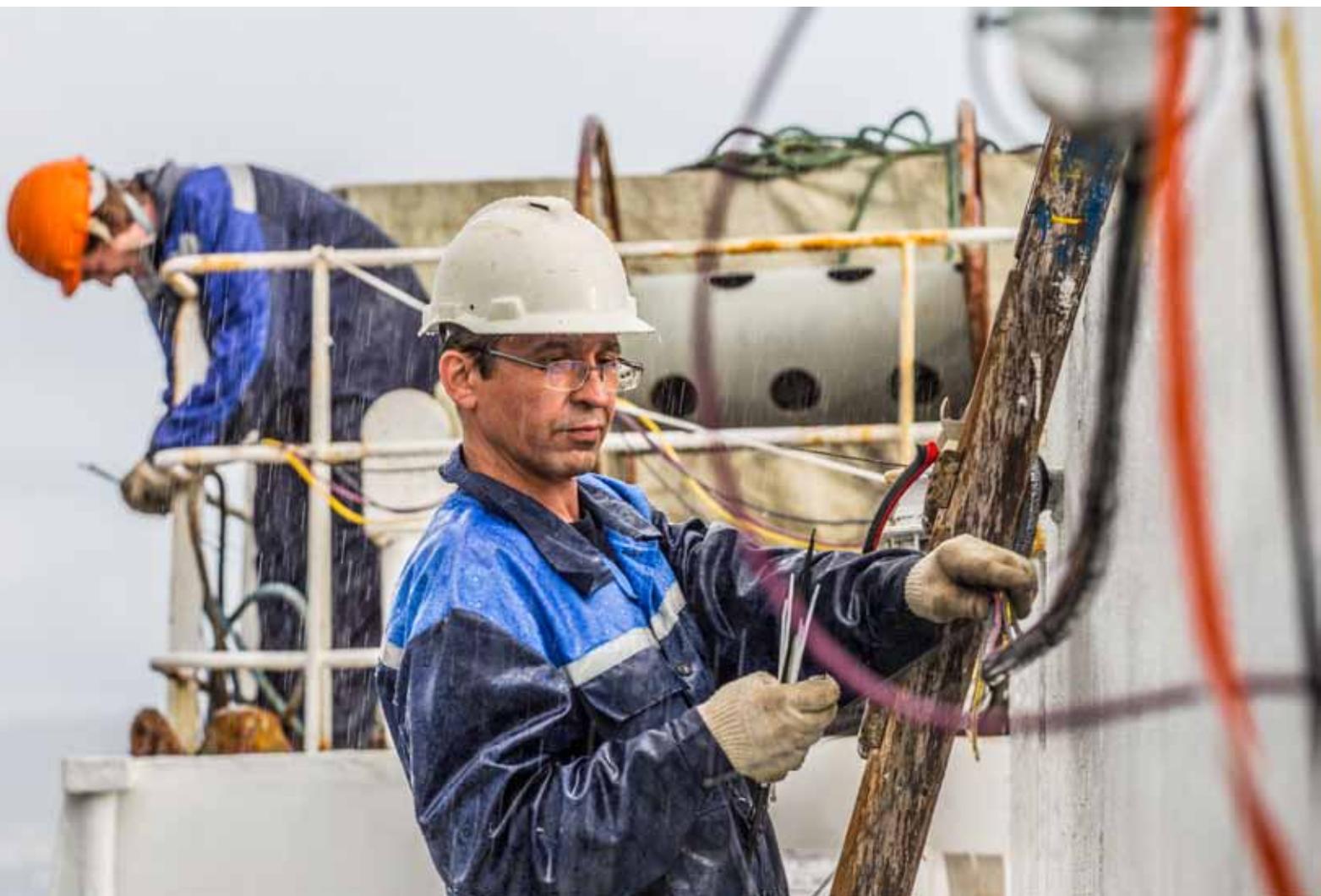
More information: <http://www.era-min-eu.org>

Horizon 2020 is the biggest EU Research and Innovation programme ever, with nearly €80 billion of funding available to secure Europe's global competitiveness in the period 2014-2020. Fully aware of the importance of the European Commission's Horizon 2020 programme, the EFG Board released in September 2014 its Initiative Looking Forward. This initiative is framed by several Action Plans of EFG's 2014-2017 strategy.

More information: <http://eurogeologists.eu/strategy>

EFG is glad to report that its efforts in participating in several calls for project proposals have been fruitful: from the beginning of 2015 on, the Federation will be involved in four Horizon 2020 projects:

- **Call SC5-11a-2014** "New solutions for sustainable production of raw materials: a) [2014] Mining of small and complex deposits and alternative mining".
Project acronym: iVAMOS!
EFG is in charge of dissemination activities.
- **Call SC5-2014-SC5-13a-2014** "Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials" sub-topic: Mineral deposits of public importance.
Project acronym: MINATURA 2020
EFG is work package leader in charge of dissemination activities.
- **Call WATER-4a-2014** "Water Innovation: Boosting its value for Europe: Dissemination and exploitation, ICT, knowledge, gaps, research needs".
Project acronym: KINDRA
EFG is work package leader in charge of data collection and processing. Some of EFG's members are directly involved in this project through the third parties scheme.
- **SC5-13b-2014**, call on the following topic: "Strategic international dialogues and cooperation on raw materials with technologically advanced countries".
Project acronym: INTRAW
EFG is the coordinator. This project involves 15 partners from Europe, Australia, the United States and South Africa and EFG's members through the third parties scheme.



Communication

Objectives and Drivers

1. Improve the use of geoscientific information on decision-making in public policies;
2. Raise public awareness of the importance of geosciences;
3. Improve elementary knowledge of the public on geology and geological processes.

Outcomes

1. Reinforce the use of the EFG communication tools: EGM, GeoNews and webpage;
2. Reinforce the dissemination capacity between EFG Members NA;
3. Raise awareness of EFG, among the public and policy makers, as a trustworthy source for geoscientific information;
4. Reinforce EFG capabilities to contribute to the development of EU policies relating to the geosciences;
5. Strengthen the bonds between EFG, NAs and mineral industry associations;
6. Coorganise the EU Geology Day.



New website

In June 2014, EFG presented its newly designed webpage to the public. The aim was to develop a modern and dynamic design and base the page's organisation

around the seven thematic actions of EFG's strategic plan for 2014 to 2017. The new website is available at www.eurogeologists.eu.

European Geologist Journal

European Geologist is the Journal of the European Federation of Geologists. It is published twice per year and carries articles on geological issues, both technical, professional and other matters.

The May edition (EG37) is a special issue named "*Metallic mineral resources – Meeting future demand*" that contains 11 contributions from 9 European countries. It is available for online reading at <http://issuu.com/efgoffice/docs/egm37>.

The November edition (EG38) focuses on "*Geoarchaeology – Reconstructing our early history*". It is available at http://issuu.com/efgoffice/docs/egm38_final/0.



GeoNews



Since several years, the EFG Office produces a monthly newsletter with the most relevant information for the European Geologists community such as events, reports, regulations, or consultations for the main activity areas (Hydrogeology, Soil Protection, Geothermal Energy, CCS, etc).

The GeoNews is disseminated once per month to EFG's network of more than 40,000 geoscientists all over Europe and via the social media LinkedIn, Facebook, Twitter.

More information: <http://eurogeologists.eu/geo-news/>

Social media

The popularity of all social media profiles is increasing steadily. All three accounts are electronically linked with each other and regularly updated with GeoNews, EGM, events and other geoscience related news.

- Facebook: Account created in April 2011: +850 likes
- Twitter: Account created in June 2012 : +140 followers
- LinkedIn: Account created in June 2012: +1400 connections



Photo contest

The European Association of Geoscientists and Engineers (EAGE) and the European Federation of Geologists (EFG) again joined forces for the organisation of the 'Geoscientists at work' photo contest.

The Top 12 pictures chosen through public online voting clearly reflect the diversity of the geoscientific profession: they not only cover different sectors of the profession such as natural hazards, minerals & mining or oil & gas exploitation, but they also depict the impressive and inspiring variety of geological features all around the Earth in general.

The top 12 pictures were displayed in a travelling exhibition visiting several geosciences events in autumn and a 2015 wall calendar was produced.

The winners of the 2014 Photo Contest are:

- First prize: 'Svalbard + Students' by Filip Bielicki
- Second prize: 'Seismic Testing in Morocco' by Lisa Ashari
- Third prize: 'Call of the Mountains' by Julia Krullikowski

More information:

www.houseofgeoscience.org



6 Financial report

JPS ACCOUNTING AND TAX NETWORK

“JPS A.T.N”

Société Civile à forme de société privée à responsabilité limitée
Avenue de Jette, 32 / 3 - 1081 Koekelberg

EUROPEAN FEDERATION OF GEOLOGISTS REPORT OF THE CHARTERED ACCOUNTANT ON THE CONTROL OF THE ACCOUNTS OF THE FINANCIAL YEAR ENDING ON 31 DECEMBER 2014

I undersigned, Jean-Pierre Verstraeten, Chartered Account, partner of the SPRL JPS ATN, certify by this document that, in accordance with statutory regulations. I have proceeded to the checking of annual accounts established under the responsibility of the management of the non-profit organisation “European Federation of Geologists” for the financial year ending on 31 December 2014 for which profit and loss accounts shows a loss of € 6.705,00 and a total balans of € 95.794,00.

This certificate is delivered without reservations as far as annual accounts are concerned.

My auditing has been effected in conformity with the norms of the “Institut des Experts Comptables”. These professional norms require that the audit is organised and done in a way to reach a fair certainty that the annual accounts do not have significant inaccuracies with regard to this statutory regulations applied to balance sheets in Belgium.

In accordance to these norms, I have taken into account the administrative and accounting structures of the Belgian branch organisation and of its internal control dispositions. The director of the Belgian branch has replied with clarity to my request for explanations and information, I have assessed the major evaluation and estimation accounting rules used by the Belgian branch. I come to the conclusion that it gives a fair ground for the expression of my opinion.

In my opinion, and in the light of the applicable laws and regulations, the annual accounts with closing date of 31 December 2014 reflect in a complete, faithful and correct way to assets, financial situation and results of the association.

Without prejudice to formal aspects of minor importance, the accounting of the “European Federation of Geologists” is in accordance with the regulations applicable in Belgium.

Yours faithfully,
Brussels, 7th May 2015

JP VERSTRAETEN

Chartered Accountant IEC (Institut des Experts Comptables)

Tel : +32 2 318.11.40
office@jpsatn.be

expert-comptable
conseil fiscal 
Institut des Experts Comptables et des Conseils Fiscaux
224392 3 EFF12
RPM : TVA BE0508.893.771

IBAN : BE31 3631 1399 5955
BIC : BBRUBEBB

EFG Financial statements 2014

Description	2014	2013	2012	2011
Assets				
A) Accounts receivable from associated for endowment fund				
B) Fixed assets				
I. Intangible assets				
Start-up and expansion costs				
Accumulated depreciation				
II. Tangible assets				
Other assets				
Accumulated depreciation				
III. Financial assets				
Other assets				
C) Current assets				
I. Stock				
II. Accounts receivable from customers	13.200 €	8.969 €	11.393 €	29.743 €
Invoice to issue	0 €	0,00	0 €	- €
	13.200 €	8.969 €	11.393 €	29.743 €
III. Financial assets other than fixed assets				
IV. Liquid assets	82.594 €	88.062 €	104.256 €	263.429 €
	95.794 €	97.031 €	115.649 €	293.172 €
D) Prepayments and accrued income				
Discounts on loans				
Others				
Total assets (A+B+C+D)	95.794 €	97.031 €	115.649 €	293.172 €
Liabilities				
A) Net equity				
I. Endowment fund				
VIII. Retained earnings (loss) carry forward	84.119 €	99.386 €	111.737 €	79.217 €
Adjustment to retained earnings (Geotrained account)				
IX. Profit (loss) for the year	-6.705 €	-15.267 €	-12.351 €	32.520 €
	77.414 €	84.119 €	99.386 €	111.737 €
B) Provision for risks				
C) Employees' leaving indemnity				
D) Accounts payable				
Accounts payable to suppliers				155.256 €
Invoice to be received from suppliers	21.194 €	4.200 €	1.080 €	1.080 €
Taxes, remuneration, social security, provision holidays	0 €	8.712 €	15.183 €	25.098 €
	21.194 €	12.912 €	16.263 €	181.435 €
E) Accrued liabilities and deferred income				
Loan interests				
Other accrued liabilities and deferred income				
Total (B+C+D+E)	21.194 €	12.912 €	16.263 €	181.435 €
Total net equity and liabilities (A+B+C+D+E)	98.608 €	97.031 €	115.649 €	293.172 €
	2.814 €	0,00	0 €	- €
Profit and loss account				
A) Revenues				
Fees from National Associations	59.260 €	62.861 €	62.798 €	54.598 €
Fees from EurGeol Title	6.942 €	6.247 €	5.227 €	3.432 €
Fees from EurGeol Title - NLB	15.651 €	13.235 €	12.537 €	11.100 €
Revenues from European Geologist Journal	0 €	9.120 €	6.840 €	- €
Revenues from EGJ copies	135 €	739 €	1.588 €	8.847 €
Revenues from sponsorship				
	81.988 €	92.202 €	88.989 €	77.977 €
Other revenues	3.496 €	1.306 €	638 €	
Contribution PanGeo	6.689 €	16.365 €	14.425 €	19.902 €
Contribution Terrafirma Project	2.700 €	7.950 €	33.170 €	42.600 €
Contribution Geotrained Project	950 €		297 €	270.069 €
Contribution Euroages Project			0 €	- €
Donations & Sponsorship	4.500 €	1.000 €	3.590 €	4.240 €
Conference	8.235 €			661 €
	26.570 €	26.621 €	52.119 €	337.472 €
Total revenues (A)	108.558 €	118.824 €	141.108 €	415.448 €

Description	2014	2013	2012	2011
B) Expenses				
Office equipment	0 €	0 €	1.018 €	- €
Office Brussels running expenses	462 €	2.960 €	839 €	1.225 €
Office Brussels Travelling expenses	2.610 €	767 €	2.404 €	1.556 €
European Geologist Journal expenses	860 €	4.794 €	5.447 €	9.336 €
European Geologist Journal printing costs	2.154 €	2.160 €	3.165 €	
TerraFirma Project work done	6.640 €	4.200 €	32.492 €	5.263 €
Pangeo	11.554 €	23.567 €	3.860 €	35.806 €
Geotrained Project expenses	1.070 €	162 €	400 €	222.432 €
Eurages Project expenses	0 €	0 €	0 €	2.080 €
Activities connected with EU	43 €	884 €	1.474 €	1.595 €
Conference Costs	0 €	0 €	1.472 €	1.043 €
Officials travel expenses	11.467 €	16.786 €	19.115 €	22.381 €
Accountants & Professional Fees accounts	1.643 €	1.906 €	2.185 €	3.637 €
Web Costs	2.610 €	1.893 €	1.466 €	55 €
Other costs	1.489 €	1.572 €	3.169 €	89 €
	42.600 €	61.651 €	78.505 €	306.498 €
Personnel costs				
a) salaries and wages	39.705 €	41.877 €	38.799 €	44.252 €
b) social contributions	24.697 €	24.302 €	24.557 €	24.062 €
c) inhouse consulting	8.233 €			
c) employees' Bonus				
e) provisions for holidays	0 €	338 €	-682 €	932 €
	72.635 €	66.518 €	62.673 €	69.246 €
Depreciation and value adjustments				
b) depreciation of tangible assets				
c) other value adjustments				
d) provision for bad debt				
Accruals to provisions for liabilities and charges				
Miscellaneous running costs : loss from account receivable	0 €	5.948 €	12.201 €	6.898 €
Total expenses (B)	115.235 €	134.117 €	153.379 €	382.642 €
Difference between revenues and expenses (A-B)	-6.677 €	-15.293 €	-12.271 €	32.806 €
C) Financial income and costs				
Other financial income :				
- Interest	74 €	153 €	102 €	91 €
	74 €	153 €	102 €	91 €
Interest and other financial costs:				
- Bank charges	101 €	127 €	183 €	377 €
- Interest paid				
	101 €	127,00	183 €	377 €
Total financial income and costs	-28 €	26,00	-80 €	- 286 €
D) Value adjustments of financial assets				
Write-up				
b) of financial fixed assets				
c) of securities recorded among current assets				
Write-downs				
b) of financial fixed assets				
c) of securities recorded among current assets				
Total value adjustments to financial assets				
E) Extraordinary income and costs				
Income				
- Capital gains on disposal				
- Other extraordinary income				
Expenses				
- Losses and disposals				
- Taxes of previous year				
- Other extraordinary costs				
Total extraordinary income and costs				
Result before taxes				
Taxes on the income for the year				
Profit (loss) of the year	-6.705 €	-15.267 €	-12.351 €	32.520 €



EFG broadly disseminates geology-related information among geologists, geoscientific organisations and the private sector, which is an important employer for its professional members, but also to the general public.

By means of its communication tools, EFG reaches approximately 50,000 European geologists as well as the international geology community. For each of these tools EFG proposes different advertisement possibilities. For the individual prices of these different options please refer to the table on the right side.

In addition, EFG proposes an advantageous annual advertisement-package of 3,500€ including the subscription of your company's logo to the EFG homepage, the GeoNews and in the European Geologist Magazine (full page colour ad).

The benefits for your company are:

- Increasing visibility of your company profile with a direct link to your website via the different communication tools of EFG.
- Broad distribution of your company news in the newsfeed of our homepage and in the GeoNews.
- Promotion of your events, publications or new products relevant to our geologists' community.
- Ads of your job offers relevant to our members in the job section of our webpage.

Since 2013, EFG proposes to its member organisations a reduction of their annual membership fee if they support EFG by introducing new sponsors or advertisers. Companies that sponsor EFG and its National Associations through this advertisement system contribute to the enhancement of the EurGeol professional title. Professional titles have become important in demonstrating the suitability of a professional to provide geological services. The professional title provides a quality mark to demonstrate to clients, regulators and the public that the individual is competent to provide geological advice, and allows employers to offer competitive commercial services. According to the EFG regulation, sponsorships can benefit directly to EFG's National Associations when they are concluded via the latter.

EFG thanks its current sponsors Rockware (<https://www.rockware.com>) and MOL (<http://www.mol.hu/en>) for their support.



Media	Ad description	1 issue	2 issues	Package
EUROPEAN GEOLOGIST MAGAZINE	Full page colour	820€	1320€	X
	Half page colour	420€	670€	
	Quarter page colour	220€	350€	
	Full page b&w	420€	670€	
	Half page b&w	220€	350€	
	Quarter page b&w	120€	200€	
	Business card size	90€	150€	
	Preferential location	+25%		
	Outside back cover colour	1200€	1900€	
	Second page colour	1000€	1600€	
	Second last page	1000€	1600€	
GEONEWS	Ad at the bottom of the newsletter and regular newsfeed	1500€		X
EFG HOMEPAGE	Advertisement column on the right hand side of the homepage and regular newsfeed	1500€		X
UNIVERSITY AD	Ad for training opportunities in the job area of the homepage	500€		
PACKAGE	Full page colour ad in 2 issues of EGJ, GeoNews and Homepage.			3500€



European Federation of Geologists
Rue Jenner 13 - B-1000 Brussels
www.eurogeologists.eu