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'Mapping the Chemical Environment of Urban Areas' another success story of the EGS Geochemistry Expert Group

EuroGeoSurveys (EGS) coordinates the work of specific Expert Groups which, usually responding to specific EU policies, integrate all geoscientific information, knowledge and expertise derived from all participating countries in fields, such as geochemistry, spatial data, geological hazards, marine geology, mineral resources, soil and water.

The EGS Geochemistry Expert Group is an extremely active group with a wide variety of outstanding publications in many journals going back to 1989. The 'Geochemical Atlas of Europe', which is freely available for downloading (<http://weppi.gtk.fi/publ/foregsatlas>) and the 'Geochemistry of European Bottle Water' (www.schweizerbart.de/publications/detail/artno/001201002), are two good examples of the excellent work done by this group.

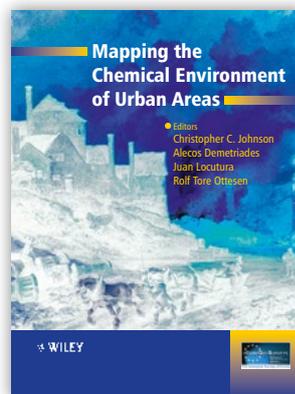
'Mapping the Chemical Environment of Urban Areas' is another significant publication in which the quality of the urban environment is being discussed. This hefty full-colour volume of 616 pages and 33 chapters covers the increasingly important issues of urban geochemical mapping with key coverage of the distribution and behaviour of chemical elements and compounds in the urban environment. Clearly structured throughout, the book is divided into two distinct sections. The first part, comprises 12 chapters, and covers more general aspects of urban chemical mapping with an overview of current practice, and reviews of different features of the component methodologies (chemical analysis, quality control, data processing and presentation, risk assessment, etc.), and with recommendations on how future investigations should proceed. The second part, consisting of 21 chapters, describes and discusses case studies from different urban areas, principally from Europe, but with contributions from North America, Africa and Asia, authored by those national or academic institutions tasked with investigating the chemical environment of their major urban centres.

Chapters include strategies that can be employed to map urban environments, along with sampling

procedures, which are used for a variety of sample media. Analytical methodologies for determining chemical elements and compounds are covered and their relative merits and disadvantages presented. Methods for defining element associations and what areas can be considered contaminated are documented, as are techniques for distinguishing between the natural geochemical baseline and chemical elements and compounds introduced by human activity. Many of the chapters discuss the potential impact on human health and describe the multi-disciplinary effort, usually supported by legislation, required to deal with the legacy of contamination found in many urban areas.

At the price sold, this full-colour A4-size book is useful for students, lecturers, researchers, decision-makers, and even for scientists that are experts in this field, because it covers aspects that have not been published before.

Isabel Pino de Juana - EGS Scientific Officer



Christopher C. Johnson, Alecos Demetriades, Juan Locutura, Rolf Tore Ottesen (Editors), Mapping the Chemical Environment of Urban Areas. Wiley-Blackwell, Chichester, U.K., 616 pages (<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0470747242.html>), ISBN: 978-0-470-74724-7, Hardcover, Published in April 2011, £85/\$102 (list price - there is a discount price for EuroGeoSurveys Geological Survey personnel).

US-EU Co-operation in the Area of Raw Material Flows Information & Data

At the end of 2011, the Transatlantic Economic Council (TEC), represented by co-chairs Deputy National Security Advisor for International Economic Affairs Michael Froman and EU Trade Commissioner Karel De Gucht, agreed to a Raw Materials Work Plan, which included preparation of a joint inventory of mineral raw materials data and analysis maintained by both sides.

As part of this effort, the two sides were instructed to consider the results of ongoing European Commission and United States Government studies of raw materials resource availability, trade flows, and criticality and of other supply and demand analyses, such as the 2010 European Commission Report by an ad-hoc expert group on critical raw materials and the U.S. Department of Energy Critical Materials Strategy.

In line with the TEC on 12-13 of September 2012 a joint EU-US workshop on critical raw materials (focused on REE) took place in Brussels. The aim of this workshop was to discuss how the EU and the USA might share raw materials data; US and EU policies are aimed at promoting a sustainable supply of raw materials. The main themes discussed were:

- Compare the information both jurisdictions have in terms of primary and secondary industrial raw materials (e.g. metals and minerals)
- Present how this information is made available and by whom
- Identify areas where material flow information is insufficient
- Share views on the consequences of this information deficit for policy development
- Agree on the information that could be shared and how such an inventory would be formulated and maintained

The workshop also included a discussion on material flow data methods and methods used for categorization and classification, such as the UN Statistical Commission System of Environmental and Economic Accounts for categorization and classification

A total of 60 participants attended this workshop. From the EU side, it included: representatives of the Commission's industry, environment, research, trade and statistics departments (including Heads of unit/Directors), industry and Academic experts and EuroGeosurveys with the participation of Mr. Luca Demicheli (Secretary General), Mr. Slavko Solar (former EGS MREG Chair), Mr. Nikos Arvanitidis (new Chair of the MREG)

From the US side, it included: the USGS, US Dept. of Energy, EPA, and the US Representation to the EU.

Mr. Demicheli gave a presentation called "Geological Surveys' Vision for Improving pan European Geological Knowledge" which focused on the ongoing and planned activities for Mineral Resources Expert Group.

The workshop proved to be successful as The EU & the US delegations arrived at a general consensus as to how to move forward with the Raw Materials Work Plan.

http://ec.europa.eu/enterprise/policies/raw-materials/international-aspects/index_en.htm

New Director of the Geological and Geophysical Institute of Hungary

On 1st April 2012 the Eotvos Loránd Geophysical Institute of Hungary (ELGI) and the Geological Institute of Hungary (MAFI) were merged to establish the Geological and Geophysical Institute of Hungary (MFGI).

Dr. Tamás Fancsik has been appointed as the new Head of MFGI. EuroGeoSurveys congratulates Tamás on his new appointment and welcomes him to the EGS Board of Directors.



New Director of the Geological Institute of Romania

Dr. Stefan Grigorescu has been appointed as the new Head of the Geological Institute of Romania – GIR. EuroGeoSurveys congratulates Stefan on his new appointment and welcomes him to the EGS Board of Directors.



Nikolaos Arvanitidis, New Chair of the EuroGeoSurveys Mineral Resources Expert Group

Nikolaos Arvanitidis was elected as the new Chair of the EGS Mineral Resources Expert Group (MREG) last August. He is a senior economic geologist with more than 35 years of experience in the field of mineral exploration and development; ore deposits geology, geochemistry, mineral economics and policy making and also mine related environmental studies.

He is also a R&D project manager at Institute of Geology and Mineral Exploration (IGME), EGS National Delegate, member of the EGS International Cooperation and Development Task Force and National Expert among others.



New Vice President of the International Union of Geological Sciences

Marko Komac, EGS President and Director of the Geological Survey of Slovenia (GeoZS), has been elected Vice President of the International Union of Geological Sciences (IUGS) during the 34th IGC meeting which was held in Brisbane in August 2012. Dr. Komac's mandate is from 2012-2016. IUGS aims to promote development of the Earth sciences through the support of broad-based scientific studies relevant to the entire Earth system; to apply the results of these and other studies to preserving Earth's natural environment, using all

natural resources wisely and improving the prosperity of nations and the quality of human life; and to strengthen public awareness of geology and advance geological education in the widest sense.



33rd EGS General Meeting and Directors' Workshop - 18-19 September 2012, Vienna, Austria

The EuroGeoSurveys Board of Directors met for the 33rd time this September in the beautiful surroundings of Vienna. Kindly hosted by the Geological Survey of Austria (GBA), the Directors held a constructive General Meeting alongside a strategy workshop in which major strides forward were made regarding the strategic ambitions of EGS. With the imminent arrival of Horizon2020, the European Commission's new research

funding programme, EGS are developing a forward looking action plan for their continued involvement at the forefront of European geoscientific research and in helping shape EU policies and legislation. The Directors came to a unanimous decision on the way forward, demonstrating the strong togetherness of the organisation and their ambition for European geosciences.



Visiting the Oyster Reef at the Geotainmentpark Fossilienwelt Weinviertel in Stetten



Geological explanation on the Korneuburg Basin at the Geotainmentpark Weinviertel.



A close view at the Limberg quarry formations



Real time blast at the Limberg quarry



View from the Hohe Wand Mountain limestones

34th International Geological Congress 5-10 August 2012, Brisbane, Australia

This year marked the 34th edition of the International Geological Congress (IGC). The quadrennial event was held in the warm winter sunshine of Brisbane, Australia.

The Geological Surveys of Europe were present in strong numbers at the event with a joint exhibition stand showcasing the activities of EGS, its members and projects. EGS was joined in its booth by BGS (UK), TNO (the Netherlands), IGME (Spain), Swisstopo (Switzerland) along with the I2Mine and PanGeo projects. Also present at the exhibition were BGR (Germany), BRGM (France), GEUS (Denmark and Greenland), GTK (Finland), NGU (Norway), SGU (Sweden), VSEGEI (Russia), and SGSSU (Ukraine). Many delegates from other EGS members also attended the sessions. In total over 6000 delegates participated in the event from all over the world.

EGS held a number of bilateral meetings whilst at the Congress in order to build relations with our international

counterparts and investigate areas of potential collaboration. These included discussions with China, Russia, Ukraine, Republic of Korea, India, the Organisation of African Geological Surveys, the Geological Society of Africa, UNESCO and CGMW amongst others.

Momentous appointments for Europe in the IUGS and CGMW

During the Plenary of the International Union of Geological Sciences (IUGS), held in concurrence with the 34th IGC, the current President of EGS and Director General of the Geological Survey of Slovenia (GeoZS), **Marko Komac, was elected Vice-President of the International Union of Geological Sciences (IUGS)**. He received strong support from the Plenary delegates and has already taken up the post with great enthusiasm.

In another concurring meeting of the Commission for the Geological Map of the World (CGMW), **Dr. Pierre Nehlig**

of the Bureau de Recherches Géologiques et Minières (BRGM), France, was elected CGMW Deputy Secretary General. Dr. Nehlig is also currently the EGS National Delegate for BRGM.

The EGS community has welcomed these appointments and wishes the two nominees successful terms in their new positions, having both been recognised and congratulated by the 33rd EGS General Meeting.

Preparations are now underway to prepare for the 35th IGC which will be held in four year's time in Cape Town, South Africa, whilst India were nominated to host the 36th IGC in 2020.



Overview of the EGS booth



Swisstopo and PanGeo project corners at the EGS booth



EGDI-Scope, EuroGeoSource and Subcoast projects corner at the EGS booth: TNO staff in bilateral meeting



EGS Secretary General addressing the participants during a scientific session



EGS booth at IGC34

Pierre Nehlig (BRGM) new Deputy Secretary General elected of the Commission for the Geological Map of the World

Pierre Nehlig, EGS National Delegate from the Bureau de Recherches Géologiques et Minières in France (BRGM), has been elected Deputy Secretary General Elect of The Commission for the Geological

Map of the World (CGMW) during the CGMW General Assembly which was held at the 34th IGC meeting in Brisbane in August 2012. It is planned that Mr. Nehlig moves to the position of Secretary General during the next IGC Meeting in 2016 in Cape Town, South Africa.



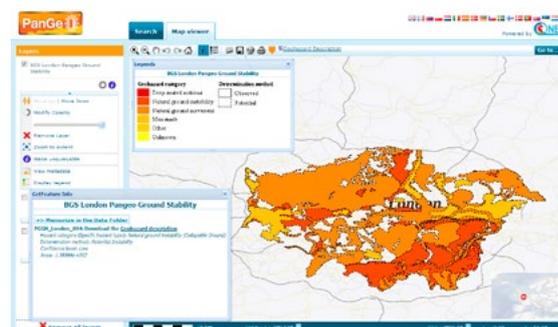
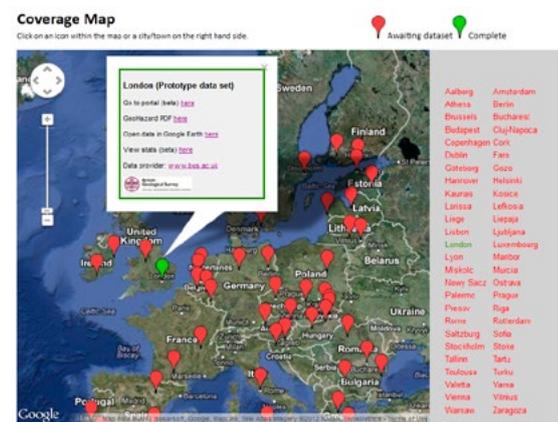
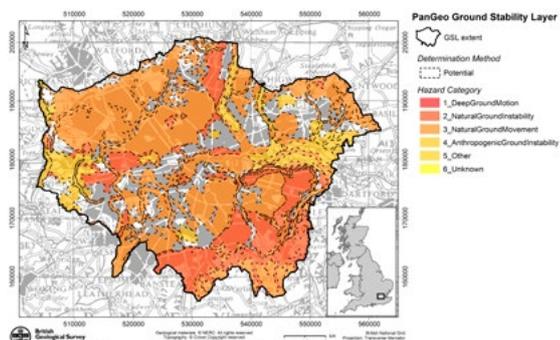
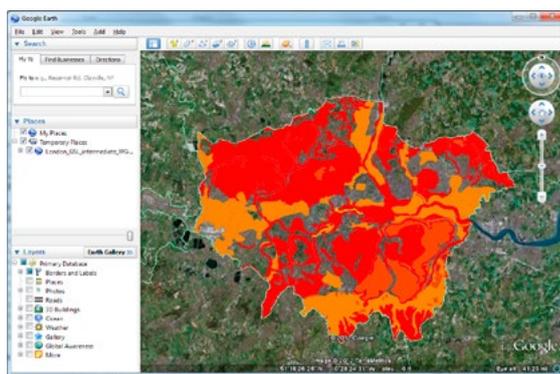
PanGeo in progress

The 3-year GMES FP7 Collaborative project PanGeo, coordinated by Fugro NPA Ltd, is providing a free, online geohazard information service for Europe. EGS leads the project's User Advisory Panel that provides overall high-level guidance. During 6-7 September 2012, the project convened a 'Production Review' event in the Museum of Natural Sciences in Brussels, Belgium. The event was attended by representatives of the PanGeo Core Team as well as 23 of the EU's 27 national Geological Surveys – all in all 33 of the 37 project partners.

The objectives were to review the status of the Surveys' compilation of PanGeo products and provide comprehensive clarification on aspects of the production process. The two half-day event sandwiched an evening reception enabling

further networking opportunities. During the review, the British Geological Survey were able to demonstrate a first working prototype of the service over London showing areas of geohazard, intersected with landcover data and population statistics. This demo really brought the project alive and showed the true potential of the PanGeo service. For the first time, 20 potential classes of geohazard are mapped at 1:10,000 scale across a major city, together with statistics relating to the coverage by geohazard type, and the landcover types and population affected. As more towns are completed, the 'global' statistics will become ever more interesting and relevant providing brand new information about geohazards across Europe as a whole.

To see for yourself, visit www.pangeoproject.eu



EuroGeoSurveys Mineral Resources Expert Group and International Cooperation and Development Task Force Joint Meeting, 10-11 September 2012, Warsaw, Poland.

After the 31th EuroGeoSurveys (EGS) General Meeting and Directors' Workshop, another important and successful meeting has been organized by the Polish Geological Survey (PGI-NRI). 20 experts representing 14 Geological Surveys and members of the EGS Mineral Resources Expert Group (MREG) and the EGS International Cooperation and Development Task Force (ICD TF) together with representatives from the EC have participated on the Joint MREG and ICD TF Meeting over 2 days.

The meeting was focus on the Feasibility African Study, a one year pilot project requested by the EC where the main objectives are; enhance the capacity and role of African national geological institutions and strengthen the Organization of African Geological Surveys (OAGS), increase the African geological surveys activity in regional mapping, contribute to the mineral resources assessment in Africa and increase the knowledge and skills through training among others.

The meeting was organized into 3 sessions over 2 days:

The first session consisted on the official Opening from the Polish Authorities and Guests: Mr Piotr Ciećwierz, the Polish Ministry for Foreign Affairs and diplomatic circles and State Mining Authority and Prof. Jerzy Nawrocki, the PGI-NRI Director (special mention for the congratulations letter sent by Mr Piotr Woźniak the Deputy Minister of Environment and Chief National Geologistin Poland).

Then, general presentations were made by the EGS Secretary General: Mr Luca Demicheli on the main updates of the EGS activity, Ms Malwina Nowakowska, the DG Enterprise and Industry Unit G3 Policy Officer who explained the EC perspectives and expectations of the African Project, and the Chairs of MR EG; Mr Nikos Arvanitidis and the Chair of ICDF; Mr Marek Graniczny which presented the expected outcomes and roadmap respectively.

During the second Session the experts made several presentations on topics previously selected with the aim of introduce the challenges that EGS and OAGS could face at developing the initiative and to identify the best means to carry out the feasibility study.

During the third session the participants evaluated the feasibility of the proposed topics. They selected the relevant topics, identify the possible work packages and deliverables and discussed which experts could lead the different areas.

Prof. Jerzy Nawrocki, PGI-NRI Director and member of EGS Executive Committee, opens the Warsaw meeting



Commemorative photo of participants of the EGS working meeting in the Main Hall of the PGI-NRI Geological Museum



The EGDI-Scope project is progressing well, now into its 5th month

The objectives, organization and contents of the project, that will produce a detailed implementation plan in 2014 for the realization of a European Geological Data Infrastructure, were exchanged at a kick-off meeting in Brussels last June with representatives of 24 EGS-member surveys and the project consortium.

The enhanced cooperation between the Geological Surveys of Europe to develop more common frameworks to exchange geological data and information at European level is one of the main objectives. Another important objective is to connect relevant geological data and information with user communities involved in European policy and international industry (e.g. insurance). Therefore the project team is preparing its first Stakeholder Workshop, which will be held on the 14th November 2012 in Brussels. A Stakeholder Panel has now been selected to provide an insight into what end-users of the proposed e-infrastructure for European geological data would find of use. The Stakeholder Panel, along with other important stakeholders, will meet with the project consortium for the first time during the Stakeholder Workshop.

During the workshop all progress made so far by each work package will be presented. The following offers a snapshot of some of the most significant developments so far:

• **Work Package 3 - Prioritisation of datasets:** tasked with identifying and reviewing previous and current European geological projects. An inventory is being created that will detail information about the projects such as the type of data it provides, the format, its delivery portals, and data compliance attributes. To date, a listing of over 50 European geoscience projects has been compiled. A parallel task is currently setting up a questionnaire to collect information on geological datasets held by national geological surveys. This will help to focus the prioritisation of datasets and

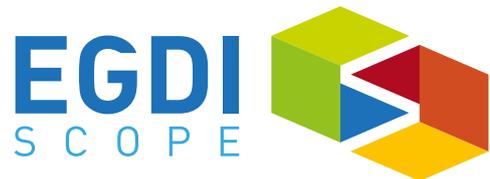
identify potential methodologies for pan-European thematic information.

• **Work Package 4 - Technical design:**

The first activity is to analyse existing infrastructures. A list of projects to look at has been set up completed by a list of technical documents (from EC or other groups) related to spatial data infrastructures. From this review many components of an infrastructure have been identified. The analysis shows that various architecture schemes are applied for the projects' implementation, and will be a topic for discussion during the second phase of WP4 when specifying the EGDI architecture.

• **Work Package 6 - Communication & Dissemination:**

The first activity was to implement suitable internal communication practices within the consortium to ensure a proper communication flow during the development of the project. For this purpose a web-based management tool was developed to facilitate exchanging documents as well as the development of templates for presentations, reports, deliverables, and posters and the organization of project meetings. A website is also under development to keep the primary audience and general public informed on the progress of the study.



Message from Expert Group

Mineral Resources Expert Group (MREG)

Nikos Arvanitidis, newly appointed chair of the EGS MREG, speaks about his vision for the future.

Mr Arvanitidis states: "My intention is to work in further strengthening the European and international position of MREG by implementing slightly modified, updated and complementary Mission, Vision and Planning views to sustain minerals supply and growth"

Mission of the Mineral Resources Expert group

The mission of the EuroGeoSurveys Mineral Resources Expert group (EGS MREG) is to provide the best available mineral expertise and information based on the knowledge base of member geological surveys, for policy, industry, society, communication and education purposes on European and international levels. There should be a focus on strengthening the position of the European minerals industry towards resource sustainability and competitive growth.

Vision of the Mineral Resources Expert group

EGS MREG aims to become the leading partner within a European mineral information network, or other form of cooperation, that will provide tools and expertise to enhance resource efficiency, secure minerals supply and support sustainable minerals development for Europe. Mineral information provided by EGS MREG is based on globally comparable standards of excellence for research and development and these standards will be maintained. Vision will be carried out collaboratively with other organizations that have mineral information and expertise, and with consumers of that information.

EGS MREG Action Plan and Strategy

Minerals related topics returned to the political and research agenda at the European level since the Communication "Raw Materials Initiative (RMI)", the related WG reports on Best Practices and Criticality with respect to non-energy minerals industry, the European Innovation Partnership (EIP) on raw materials, the Europe 2020 Strategic targets towards resource efficiency, as well as several European Research Program (e.g. FP7) calls for minerals related projects. This trend is set to continue across Europe and there should be more synergy among minerals teams of EGS members and other relevant stakeholders to create a critical mass. This development, which started with the RMI communication, creates a historic opportunity to establish the Mineral Intelligence on an EU level that would be built on existing national /member states capacities and other international ones. The current EGS MREG Position Statement on the RMI already includes the proposal that it is a solid base, but should be further analyzed, elaborated and specified for concrete efforts to be initiated and fulfilled.

The emphasis of the EuroGeoSurveys Mineral Resources Expert Group (EGS MREG) will go beyond its present state and institutional role to become an active partner (using the expertise and involvement of all EGS member surveys) getting involved in projects addressing minerals related topics and focusing on the:

- implementation of the RMI, taking into account any relevant documentation and reporting, such as the ones on Criticality and Best Practices in Land Use Planning
- progress of the EIP building blocks/work packages by participating to the pilot plant planning and execution, such as the ones on "New exploration technologies for defining the European deep mineral resources" but also taking the lead of Work Package 3 of the EIP on Raw Materials on "Improving Europe's raw materials regulatory framework, knowledge and infrastructure base" and being actively involved in all other work packages where relevant
- enhancement of minerals role and related industrial technologies for competitive growth as part of the Europe 2020 Strategy
- incorporation of mineral resources topics to be addressed as thematic priorities called under the Horizon 2020 and other EU R&D programs and funding schemes

The main tools, components and actions supporting, facilitating and monitoring work progress, achievements and results with respect to the strategic areas emphasized above, focus on:

- establishing an INSPIRE compliant European Minerals Intelligence Network with the EGS members in the core and networking to any potential stakeholder ,
- coordinating and advising EU flagship projects related to minerals among all members of EGS e.g. ProMine, EuroGeoResource, EO-Miners, ERA-MIN, EURARE etc
- strengthening the EGS MREG group and relations with other relevant bodies or institutions or events by improved communication and coordination e.g. JRC, EODI (European Ore Deposits Initiative), PDAC (Prospectors & Developers Association of Canada) etc;
- raising the role of the European Technology Platform On Sustainable Mineral Resources (ETP SMR) to become an even more significant and solid player in European mineral resources industry, by having already a more active role in the management structure
- improving the links and joint efforts with European mineral resources industry representative bodies e.g. EUROMINES, IMA, UEFG, EUROMETAUX etc
- introducing the Green Mining conceptual and practical approaches starting from exploration to continue throughout the entire value chain of minerals
- promoting and further developing International Cooperation beyond the ongoing efforts with Africa and Greenland, to extend to USA, Canada, Japan, BRIC and ACP countries etc

Message from Expert Group

Short term work tasks and project targets of main concern to be undertaken and progressed to the end of 2012 include:

- project preparation of creating a network to facilitate access for the EU mineral resources in relation to the NMP call 4.1-3 on "European Intelligence Network on the Supply of Raw Materials (EIN-SRM)"
- progress of the EGS-African cooperation issues on mineral resources taking into consideration the AEGOS project and having under preparation a proposal in the framework of a DG-ENTERPRISE tender to deliver a scoping study addressing EU-Africa cooperation on geoscientific issues
- proper position of minerals into the context of ERA-NET, Art 185 and the related White Paper edition being progressively prepared under the Horizon 2020 programme
- active involvement to the UNECE Expert Group on Resources Classification
- membership to the EIP on Raw Materials management structure and participation to the workshop planned to take place in November this year bringing together policy-makers, NGOs, industry representatives, academic experts and other stakeholders to launch the new Innovation Partnership on Raw Materials
- participation to the restructuring process of the Raw Materials Supply Group (RMSG), under the responsibility of DG ENTERPRISE, calling currently for applications for the selection of new experts
- support of the Exploration Pilot Plant, also backed up by ETP SMR, the mining industry, the ProMine consortium and academia
- setting up a road map with respect to European and global minerals exploration and exploitation trends, the EIP progress, which seems from now on to control and govern any developments in minerals R&D, and any foresight and outlook studies dedicated to extractive industry.
- involvement in Knowledge & Innovation Communities (KICs) initiative on raw materials (sustainable exploration, extraction, processing, recycling and substitution of raw materials) introduced by the European Institute of Innovation and Technology (EIT), to be launched in 2014 under Horizon 2020

THE STATE GEOLOGICAL INSTITUTE OF DIONÝZ ŠTÚR, SLOVAK REPUBLIC

The General Secretary of EuroGeoSurveys Luca Demicheli visited the State Geological Institute of Dionýz Štúr (SGUDS) on the occasion of the Central celebration of the Day of miners, geologists, metallurgists and oilmen. The SGUDS Director Mr. Branislav Žec and his management welcomed him at the Surveys in Bratislava. After a short visit, the delegation of the SGIDS together with general secretary continued to Banská Štiavnica town, where the main celebrations took place.

Some facts about State Geological Institute of Dionýz Štúr

The State Geological Institute of Dionýz Štúr (SGUDS) is a state contributory organization supervised by the Ministry of Environment of the Slovak Republic. The Institute was established in 1940. The act on the State Geological Institute was approved by the Assembly on May, the 15th, and 1940 and on June the 12th of the same year the respective Governmental Directive has been issued.

Prof. Dimitrij Andrusov (grandson of Heinrich Schliemann – famous archeologist, discoverer of ancient Troy) was appointed as the first director of the State Geological Institute. The State Geological Institute is named after prominent geologist of the Slovak origin - Dionýz Štúr. This gentleman because of his expertise and organizational skills, he became chief geologist at Imperial Geological Institute in Vienna in 1872. The position of deputy director of above mentioned Institute gained in the 1877 and finally since 1885 was appointed as the director.

The SGUDS headquarters is located in Bratislava with regional centres in Spišská Nová Ves, Banská Bystrica and Košice. The State Geological Institute of Dionýz Štúr is subordinated to the Ministry of Environment SR is a contributory organization which dominantly provides: geological research and exploration at the territory of the Slovak Republic, creation of information system in geology as a component of the nation-wide information system, registration and evidence activities related to geological Works performance, collecting, evidence and making available the geological works results carried out at the territory of the Slovak Republic.

Moreover undivided parts of the Institute are the Geoanalytical Laboratories and the Central Geological Library. The Institute possesses own publishers and store of maps and professional geological publications. The staff of the Institute at the end of 2011 was 238 employers.

Celebration in Banská Štiavnica town

In the beginning it is necessary to shortly introduce the historic mining town Banská Štiavnica. The legend speaks about two lizards (salamanders) bearing gold and silver dust on their saddles observed by shepherd. Discovering their hiding the shepherd discovered the outcrops of precious metals vein structures. In fact the first miners were Celts who had mined gold already in the 3rd and the 2nd century B.C. The first written document about town and miners is from the year 1156.

The peak of development achieved town in the 18-th century, when in the 1763 had been established by Empress Maria Theresa the first technical university in the world - The Mining Academy. During centuries the town was famous by exploitation of gold, silver, copper, zinc and lead. Contemporary is active only one gold mine.

The municipal festival called Salamander days (based on the legend) is held every year here on the 7. and the 8. of September devoted to celebration of work of miners, geologists, metallurgists and oilmen. The most famous part of these days is The Salamander procession. It is more than two hour lasting parade, presenting the entire history of Banská Štiavnica town. Beside of domestic people numerous delegations of miners from abroad are presented in The Salamander procession every year.

The other typical act of Salamander days is The Shaft day. It is directed according to tradition by the beer act. Candidates to enter the mining rank have to wait for orders from the presidential table with prepared glasses of beer. Jump over a piece of leather requires also an appropriate physical ability. Before the jump, the candidate is obliged to strengthen himself with a glass of beer and answer many questions from the auditorium.



Branislav Žec, SGUDS Director (third from left) and Luca Demicheli were members of the Presidium



The EGS Directors present with the General Director of the Slovak Ministry of Environment (second from right)

National Geological Surveys

Finally it is needed to mention also about the official events that take place during these days every year. One of them is the meeting of The Slovak Mining Chamber, where is evaluated annual production of raw material in Slovakia. Another official act is awarding people who deserve it for their important contribution and hard work on the field of geology, mining and metallurgy. Some members of the government are invited to this event; for example the minister of environment and the minister of economy. In the ceremony in 2012 was invited President of Slovak Republic Mr. I. Gašparovič.

Some vision important for SGIDS

The State Geological Institute of Dionýz Štúr possesses the skill staff, which is capable to solve various urgent geological problems which have to solve nowadays population for its sustainable development. There are mainly:

- Basic and targeted geological mapping as the ground for all geological disciplines

- Prospecting and evaluation of raw materials
- Mapping, prospecting and protection of resources of underground waters
- Prospecting, evaluation and protection of sources of geothermal energy
- Assessment and monitoring of geohazards including environmental impact assessment
- Tasks regarding geoheritage preservation and educational activity towards population
- Assessment of content of requested elements and substances in accredited laboratory
- Collecting, storage and evaluation of geological information by information technologies

Based on these the Institute can compiled various ad hoc teams which can be mobilized and equipped not only by needed technical equipment but also by mental equipment what is in majority cases the most decisive factor.



The 'Presidium'



SGUDS (Slovakia), PGI-NRI (Poland) and HGI-CGS (Croatia) Directors and key staff with Slovak ministries high level officials



The congress room fully booked for the closing ceremony opened by the President of the Slovakia Republic and by the Ministers of Economic Development and of the Environment.



The SGUDS delegation during the Salamander Procession



EGS Secretary General 'at work' during visit at abandoned mine.

The 5th edition of the Geological Map of Italy 1:1,000,000 scale

In 2011 to commemorate the 150th anniversary of the unification of Italy, The Geological Survey of Italy - ISPRA published the fifth edition of the Geological Map of Italy at a scale of 1:1,000,000.

The great length of time elapsed since the previous edition, published in 1961, makes this map a representative element of the enormous scientific progress made by the Geological Sciences.

Its implementation has involved many researchers from the Geological Survey of Italy and was carried out through the analysis and synthesis of the enormous amount of scientific papers published in recent years; particularly, papers that have studied and elaborated the geological sheets achieved so far in the National Geological Mapping project at 1:50,000 (CARG project), and have allowed to modernize and detail the geological mapping of about 40% of the Italian territory.

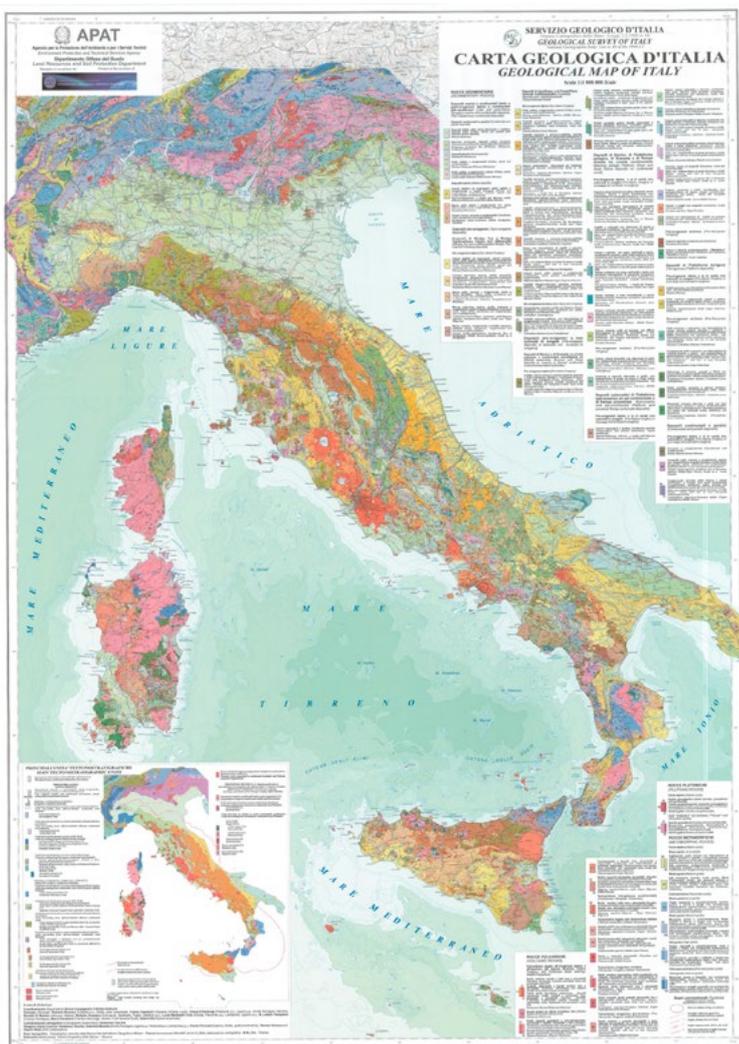
The objective of this synthetic map is to spread a summary of the geological knowledge from the Italian territory, especially in the education sector, and try to reach a wide audience including

students, teachers, researchers and scientists. As a supplement to the paper, this edition is accompanied by explanatory notes which describe the main characteristics of the geological units, as well as the criteria used to define them.

The map has been structured representing the essential data for the characterization of chrono-stratigraphic rock units, for the characterization of paleogeographic depositional environments, and tectono-stratigraphic events that have taken place from Paleozoic to Holocene. The result is a Geological Map substantially different from similar geological maps at synthesis scale: in addition to "conventional" lithological characterization this map has highlighted the structural and paleogeographic evolution of Italy.

This fifth edition of the Geological Map of Italy at 1:1,000,000 scale is therefore a useful aid to understanding the geological and geodynamics history of the Italian Peninsula.

Marco Pantaloni
ISPRA, Italy



The 5th edition of the Geological Map of Italy at 1:1,000,000 scale, realized in 2011 by the Geological Survey of Italy - ISPRA.

EGS Partners Involved in the European Commission CCS database project - CO2StoP

The 15-month project CO2StoP (Assessment of CO2 Storage Potential in Europe) started at the beginning of this year. The objective of CO2StoP is to build a CO2 storage potential database for the European Commission and the Joint Research Centre (JRC). The CO2StoP project includes 29 partners, which are organized in a small consortium with GEUS as coordinator and BGS and TNO as contractors. All other partners are subcontracted. The partners include EGS members and a range of other research organizations; most of them are also members of ENeRG.

The EU GeoCapacity project had 26 project partners from 20 countries, most of which have joined the CO2StoP project, but there are also new partners within the CO2StoP project. In general, there is one from each of the participating countries, in total 29 partners representing 29 research institutes from 28 countries (21 EU member states, 3 associated countries and 5 other countries).

The CO2StoP project is an EU service contract project to build a CO2 storage potential database for aquifers and hydrocarbon fields based on public available data from most European countries; as such, the project will not develop new data but build on existing knowledge including methodologies to:

- Develop a harmonised methodology and formulae for assessing geological CO2 storage capacity in Europe.
- Define a set of CO2 storage parameters that will allow the agreed methodology to be implemented: both methodology and parameters to be defined in close cooperation with the JRC.
- Provide the storage data defined above for each country: this to be held in an EU database.
- Estimate CO2 storage capacity in Europe both in deep saline aquifers and in hydrocarbon fields.

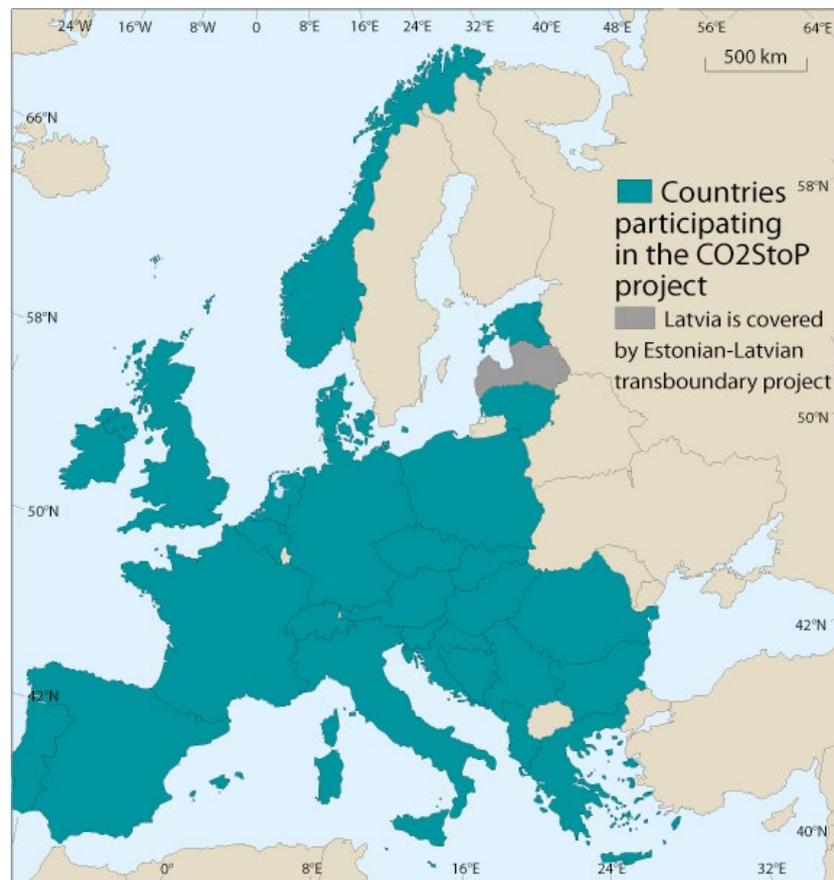
The CO2StoP project is building upon the basic work and results generated by the previous projects, the EU GeoCapacity FP6 R&D project (see GEO ENeRGY No 12/2005, 14/2006, 16/2007, 18/2008) which again was based upon the results of the Joule II project (finalised 1993), the GESTCO project (finalised 2003), and the Castor project (finalised 2006).

The results of the project are to be used for EU policymaking purposes. This assumes that the most important goal for the policymakers is to assess the role that CCS can play in a portfolio of greenhouse gas mitigation options, and to know the potential CO2 storage capacity and the location of this storage capacity.

Regretfully, the CO2StoP project is limited in responsibility, totally 13 person-months of work. The project will depend on the amount of publically available data. It is therefore uncertain if the project will result in a comprehensive database.

Furthermore, future updates of the data in the database are not included in the project. A long-term solution will be a storage atlas for Europe using an interactive web database server drawing the public available data from the individual countries databases, and using the experience from "One Geology" and from "EuroGeoSource".

Niels Poulsen
Project Manager - CO2StoP (GEUS)



Countries participating in the CO2StoP project

The ETP SMR Stakeholders Forum 2012, held on the 5th September 2012, was a resounding success with over 100 participants and great appraisal from the European Commission officials in attendance. Entitled "From Harsh Environment to High Tech Solutions", the event attracted stakeholders from all sectors of the mineral resources value

chain and included representatives from industry, academia, government ministries, EU Institutions, research institutes, European associations and public affairs groups. Presentations made during the Stakeholders Forum can be found under the 'events' section of the ETP SMR www.etpsmr.org



The **I²Mine** project consortium will have plenty of progress to discuss at their upcoming General Assembly this October, taking place in the LKAB facilities at Kiruna, Sweden. Following a year of activity, the project is gaining momentum and is being promoted around the world.

I²Mine was present in the GeoExpo at the 34th International Geological Congress in Brisbane, with a section of the EuroGeoSurveys exhibition booth designated to promoting the **I²Mine** goals to over 6000 delegates that attended the event from around the globe.

Secretariat's agenda

➤ 8 October

Nikolaos Arvanitidis, Chair of the EGS Mineral Resources Expert Group (MREG), at ERA-MIN Working Group 1 meeting in Frankfurt

➤ 8-9 October

Hans-Peter Broers, Chair of the EGS Water Resources Expert Group (WREG) at Water Framework Directive EU Working Group C and second GW&CC EU workshop in Nicosia

➤ 9-10 October

Luca Demicheli at the Malta Resources Authority in La Valletta

➤ 15-16 October

Luca Demicheli at EC Conference on 'Challenges and opportunities in raw materials management' (Euro-Mediterranean dialogue) in Brussels

➤ 17 October

Luca Demicheli at European Parliament Luncheon Debate on 'Critical Raw Materials and REACH: Impact on Technological and Economic development' in Brussels

➤ 17-18 October

Jerzy Nawrocki, member of the EGS Executive Committee, and EGDI-Scope Core Team at 'Roadmap for Earth Sciences in Europe' meeting in Paris

➤ 19 October

Claudia Delfini, EGS Communication Manager at 'Via GeoAlpina' and 'Goethe's journey' books launch in Rome

➤ 22 October

Marko Komac, EGS President, at World Bank Pre-African Development Forum event on 'Geological Mapping and Mineral Inventory in Africa' in Addis Ababa

➤ 22-24 October

EGS Geochemistry Expert Group (GEG) meeting in Lisbon

➤ 23 October

Luca Demicheli at Group on Earth Observation (GEO) High Level Group Meeting in Brussels

➤ 23-25 October

Marko Komac, EGS President, at African Development Forum in Addis Ababa

➤ 24-26 October

Patrick Wall, EGS Scientific Policy Officer, at I2Mine project General Meeting in Kiruna, Sweden

➤ 25 October

Luca Demicheli at EU-Russia Industrial Policy Dialogue on Raw Materials in St. Petersburg

Secretariat's agenda

➤ 30-31 October

Nikolaos Arvanitidis, Chair of the EGS Mineral Resources Expert Group (MREG), at "Regions in the forefront: Raw Materials & Tourism 2012" Conference in Limassol, Cyprus

➤ 8-9 November

EGS GeoEnergy Expert Group (GEEG) meeting in Ljubljana

➤ 12-14 November

EGDI-Scope project Progress Meeting and Stakeholders Forum in Brussels

➤ 13 November

Mart van Bracht, EGS Vice-President, and **Luca Demicheli** at High Level Conference on the new European Innovation Partnership on Raw Materials in Brussels

➤ 14 November

Luca Demicheli and **Nikolaos Arvanitidis**, Chair of the EGS Mineral Resources Expert Group (MREG), at EC Raw Materials Supply Group meeting in Brussels

➤ 15-16 November

Luca Demicheli and **Woody Hunter**, EGS External Relations Officer, at EGS ERA-NET Task Force meeting in Bratislava

➤ 21-23 November

Luca Demicheli, **Stuart Marsh**, Chair of the EGS Earth Observation Expert Group (EOEG), and **Francois Robida**, Chair of the EGS Spatial Information Expert Group (SIEG-INSPIRE), at Group on Earth Observation (GEO) IX Plenary Session in Foz de Iguazu, Brazil

➤ 21-22 November

EGS Marine Geology Expert Group (MGEG) meeting in Stockholm

➤ 3 December

EGS Executive Committee Meeting in Brussels

➤ 3 December

Nikolaos Arvanitidis, Chair of the EGS Mineral Resources Expert Group (MREG), at European Technology Platform on Sustainable Mineral Resources (ETP SMR) High Level Group Meeting in Brussels

➤ 11-15 December

Luca Demicheli and **Marek Graniczny**, Chair of the EGS International Cooperation and Development Task Force (ICDTF), at Organisation of African Geological Surveys (OAGS) General Meeting in Niamey, Niger

EU agenda

➤ European Innovation Partnership on Water

At its kick-off meeting on 4 September 2012, the Steering Group of the EIP on Water adopted conclusions regarding the priority areas of action and selection criteria. In addition, a Task Force was appointed, which will meet on 25 September 2012 in order to focus the scope of the priority areas and to start drafting the Strategic Implementation Plan of the EIP.

Source: www.europeanvoice.com
http://ec.europa.eu/environment/water/innovationpartnership/index_en.htm

➤ Revised Council Conclusions on KETs and EIP Raw Materials

The Council has published conclusions on Key Enabling Technologies, to be adopted on September 13th,

as a response to the recent Communication from the Commission. In a revised draft reflecting the outcome of the Council Working Party meeting on September 6th, it welcomes the Communication and agrees on the need for greater coordination between the EU and Member States KETs policy. It also stressed the necessity to streamline and adapt EU policy, such as Horizon 2020 and Cohesion Policy, in favor of KETs and in particular of pilot lines, demonstration and cross-cutting projects. The draft Council conclusions also welcome the proposal for an European Innovation Partnership (EIP) on Raw Materials and ask for a place for Member States representatives in the future High-Level Steering Group of the EIP.

Source: www.euissuetracker.com
<http://register.consilium.europa.eu/pdf/en/12/st13/st13551.en12.pdf>

➤ **The scramble for the Arctic is already underway**

It is just beginning to become clear that an ominous new age is dawning for the Arctic, one of the world's most unspoiled ecosystems: a stampede for the region's minerals and other natural resources, oil and gas above all, as the exploitation of them is being made possible by the rapid melting of the Arctic Ice by the warming climate. You could compare this to the American gold rushes, but perhaps in its scale it resembles even more the "scramble for Africa" at the end of the 19th century, when European powers led by Britain, France, Germany and Belgium rushed to divide between them the African continent, then being opened to outsiders in a similar way.

The scramble for the Arctic will involve both giant corporations such as Shell and Exxon and also nation states, especially the Arctic countries which surround the North Pole, and which, are already staking their territorial claims. Greenpeace has accurately shaped the aims of its new campaign: to internationalize the region, as the Antarctic has been internationalized, and to keep out industrialization and unsustainable fishing – the very developments which are likely to come along very soon.

Source: Michael McCarthy, www.independent.co.uk, 29/8/2012

➤ **European Parliament adopts critical new law on Energy Efficiency**

The EP adopted new EU legislation on energy efficiency and savings on Tuesday 11 September 2012. The legislation will be crucial to achieving energy security and climate goals. This directive will enshrine the EU's 20% energy savings target in a legal framework and set out binding measures which will bring the EU closer to realizing the target of reducing energy consumption by 20% by 2020. The legislation includes a number of crucial measures that will deliver concrete energy savings.

Source: www.eureporter.co

➤ **New EU rules designed to promote greater transparency in foreign oil and mineral payments could improve the lives of millions of people**

In the two years since the US Congress passed the Dodd Frank Act, which contains a section requiring US-listed oil, gas and mining companies to publish details of payments to foreign governments, Europe has been moving closer to establishing its own rules to

do the same thing. The US Securities and Exchange Commission (SEC) finally ruled on 22 August 2012 on the details of how companies will have to report. European decision-makers in the European Parliament and the Council of Ministers have been keeping a close eye on the SEC. In recent months, many member state governments in particular have called for EU laws that at least match the US's. In order for that to happen, two areas in particular need close attention. Firstly, the issue of exemptions. As it stands, there is a risk that EU legislation will contain a massive loophole, letting companies off the hook from reporting payments when they operate in countries where criminal laws may prohibit such disclosure.

Secondly, the question of how to define oil and mining projects for the purposes of reporting. The EU has defined an extractive project in a way that gives some wiggle-room to companies that are keen to avoid full disclosure. The benefits would be huge. Interested citizens and civil society would be able to follow the money from oil and mineral deals for the first time.

This would be a critical first step towards holding governments accountable for the money generated and ensuring that it is spent on schools and hospitals rather than on limousines and mansions for the lucky few.

Source: Eloise Todd, www.europeanvoice.com, 17/9/2012

➤ **CCS is approaching the moment of truth**

Carbon capture storage could be a crucial opportunity to advance the transition to a sustainable future. Europe is recognized as a global leader in the development of CCS technologies. The EU wants to see CCS become commercially viable as quickly as possible and to start realizing its potential as a major technology to reduce carbon emissions in the EU and globally. CCS has a potentially important role to play in building the low-carbon economy needed to prevent dangerous climate change. For economic reasons CCS is likely to be deployed first in the power sector. The Commission expects it to be among a number of low-carbon technologies and energy efficiency measures that will contribute to the process of largely decarbonizing the electricity sector by 2050.

After the power sector the large scale application of CCS to emissions from industrial process is expected to follow from 2030 onwards. The Commission aims to help CCS achieve commercial viability through its NER300 program, one of the world's largest funding programs for innovative low-carbon energy demonstration projects. In July 2012 the Commission published interim

results of the selection process and preliminary lists of candidates and reserve projects that could be awarded co-funding. Member states will be asked to formally confirm the projects and national co-funding in early October 2012 with a view to finalizing the funding decisions by the end of 2012. As with all new technologies the potential impacts on human health and the environment need to be carefully considered. CCS as a technology is fast approaching the moment of truth. Either public and private efforts can be joined to turn CCS into an economically and environmentally feasible reality or a major opportunity to give one further step in the transition to sustainability will be lost. Source: Jos Delbeke, Director General of European Commission's DG Climate Action, Parliament Magazine 354, 17/9/2012

7 EC CONSULTATIONS

Consultation on Marine Knowledge 2020: from seabed mapping to ocean forecasting

To understand stakeholders' opinions on options for future governance of the EU's «marine knowledge 2020» initiative and on the possible involvement of the private sector.

Open from 29 August 2012 to 15 December 2012
http://ec.europa.eu/dgs/maritimeaffairs_fisheries/consultations/marine-knowledge-2020/index_en.htm

Consultation on the preparation of the Fuel Cells and Hydrogen Joint Technology Initiative under Horizon 2020

In 2008 the Fuel Cell and Hydrogen Joint Undertaking (FCH JU), a Public Private Partnership between the European Commission and the industry was established through the Council Regulation (EC)521/2008. The research community later joined the initiative. Its objective was to significantly accelerate the market introduction of the fuel cell and hydrogen technologies, in order to realise their potential as an instrument to achieve a lower carbon energy system.

The 7th Framework Programme is coming to an end and Horizon 2020 is expected to start in early 2014. The present consultation aims at collecting the views of the wider public on the fuel cells and hydrogen sector, on research & innovation in this field in Europe, and in particular on the possible continuation of the FCH JU for the implementation of FCH research in Horizon 2020.

Open from 11 July 2012 to 4 October 2012
http://ec.europa.eu/research/consultations/fch_h2020/consultation_en.htm

Consultation on plans for a public-private partnership in life sciences research and innovation under Horizon 2020

The Commission proposal for Horizon 2020 foresees that the priority "societal challenges" is also implemented through public-private partnerships (PPPs). Selection of PPPs will be based on a set of clearly defined criteria, including the added value of action at Union level, the scale of impact on industrial competitiveness, sustainable growth and socio-economic issues, and the long-term commitment from all partners based on a shared vision and clearly defined objectives.

The present consultation seeks key views relating to the launch of a PPP in the life sciences research area under Horizon 2020 and what areas should be addressed. The planned PPP would implement part of the «health, demographic change and wellbeing» challenge.

Open from 11 July 2012 to 4 October 2012
http://ec.europa.eu/research/consultations/life_science_h2020/consultation_en.htm

Upcoming Events

International Energy exhibition & conference - SIDE Morocco 2012

From : 02.10.2012 Till : 04.10.2012

Location : Conference room - Congress Palace, Marrakech

IEC, the Moroccan Ministry of Energy, Mining, Water and Environment and ONHYM - Office National des Hydrocarbures et des Mines invites you to take part in the 1st SIDE Convention. Your participation at this conference gives a unique possibility to represent your organization effectively and to get a chance to discuss essential business questions with representatives of the Moroccan Government, Moroccan operators in the industry of oil, gas, mining and renewable energies, African decision makers, experts of the largest oil & gas companies, leading scientists, analysts and politicians www.side-morocco.com/register_on_line.html

Low Carbon Earth Summit 2012

From : 19.10.2012 Till : 21.10.2012

Location : Guangzhou, China.

The Low Carbon Earth Summit (LCES) 2012 will provide an alternative platform to other global conferences in relation to Climate Change and environmental protection. We will focus more on the practical perspectives of a green economy, promotion of sustainable or renewable energy, and exhibit technical resolutions to solve and predict the existing issues. Through the massive operations on comprehensive topics related to a low carbon economy and industries, we hope the summit can provide the best information exchange channels for all endeavors on low carbon fields that are working in control global climate changes from policy makers, NGO leaders, economists, investors, engineers, scientists, industrial leaders, carbon traders, brokers, clean energy producers, energy consumers, and toward daily low carbon life practitioners and advocates etc. Thus, we believe LCES can help our society and humanity with unprecedented impacts on the world sustainable development, new economic growth and renewable energy innovation to commercialization. www.bitcongress.com/nef2012

8th African Development Forum 2012

From : 23.10.2012 Till : 25.10.2012

Location : Addis Ababa, Ethiopia

The aim of ADF is to present the key stakeholders in African development with the results of current research and opinions on key development issues in order to formulate shared goals, priorities, and programmes, and define the environment that will enable African countries to implement these programmes. The Forum brings together a large number of participants including

Heads of State and Government, African member States policy makers, development partners, other UN agencies, IGOs/NGOs, the academia, practitioners, CSOs, the private sector, eminent policy and opinion leaders, and other concerned stakeholders. The theme of the ADF 8 is "Governing and Harnessing Natural Resources for Africa's Development". It will focus on mineral, land, timber and fishery resources and the potential role they can play in fostering growth and structural economic transformation on the continent.

http://new.uneca.org/adfviii/adf_news.aspx

Regions in the forefront: Raw Materials & Tourism 2012

From : 30.10.2012 Till : 31.10.2012

Location : Hotel Four Seasons, Limassol, Cyprus

The main aim of the conference will be to demonstrate that the mining and tourism industry can develop simultaneously for the benefit of the European regions. The conference presentations will provide several examples of active mines in Europe that can be found close to a national park or for example in the middle of a ski resort. As well as direct wealth creation from mining and value-adding to mineral products, the minerals sector has a much broader impact on society through employment in services and infrastructure development. In active mining regions in Europe, the extractive industry can have a strong impact on the development of the area by providing growth, prosperity and by creating well-paid jobs which lead to increased tax revenues and further diversification of regional economies. The people of these regions feel proud to be providing the raw materials for countless downstream manufacturing sectors in Europe.

www.euromines.org/conference/regions-forefront-raw-materials-tourism-2012

The role of women in the Earth Sciences

From : 30.10.2012 Till : 30.10.2012

Location : Rome, Italy

The workshop, organized by ISPRA and by the Ordine dei Geologi del Lazio (Regional Register of Geologists of Latium) aims to enhance the passionate contribution offered by women to Earth Sciences. An overview on the experiences and strategies, also at international level, to enhance the role of women and undermine the cultural prejudices that often result in attitudes of discrimination against professional women. The workshop is designed for people working in universities, research institutes, geological surveys, agencies, professional bodies, associations, policy makers and all those who want to share life and work experiences with people who have taken steps to ensure equal opportunities

Upcoming Events

in terms of professional training, organization and distribution of work, career development and assignment of responsibilities.

www.isprambiente.it/it/events/il-ruolo-femminile-nelle-scienze-della-terra.-esperienze-a-confronto-e-prospettive-future

➤ **European Year of Water - Upcoming Challenges**

From : 30.10.2012 Till : 30.10.2012

Location : Brussels, Belgium

The Annual Brussels Conference of the European Water Association brings together more than 100 high level experts, decision makers and stakeholders in order to discuss the outcome of the European Year of Water 2012 which is coming to an end. This event, organized in cooperation with the European Commission DC Environment, and kindly hosted by the Representation of the State of Baden-Württemberg to the EU in Brussels, will gather experts who report on the upcoming challenges of Europe's sustainable water management. As such, the EWA Brussels Conference is a unique opportunity to enhance the knowledge about the implementation of water policy in the EU. 2012 has been declared the European Year of Water. Thus, 2012 is the year where the European Commission will assess the previous and current achievements in sustainable water management and estimate the needs for the future. These are the goals of the Blueprint to Safeguard Europe's Water Resources which is planned for November 2012. The Blueprint will aim to ensure good quality water in sufficient quantities for all legitimate uses. The time horizon of the Blueprint is 2020 since it is closely related to the EU 2020 Strategy and, in particular, to the planned Resource Efficiency Roadmap stipulated by the EU. The Blueprint will be the water milestone on that Roadmap. However, the analysis underpinning the Blueprint will cover a longer timespan, up to 2050 and will drive the policy for a longer period.

www.ewa-online.eu

➤ **EGEC's GEOELEC project (training course) 2012**

From : 05.11.2012 Till : 09.11.2012

Location : Strasbourg, France

The GEOELEC project is a pan-European project on geothermal electricity, supported by the Intelligent Energy Europe programme of the EU. The objective of the GEOELEC project is to convince decision-makers about the potential of geothermal electricity in Europe, to stimulate banks and investors in financing geothermal power installations and finally, to attract key potential investors such as oil and gas companies, and electrical utilities to invest in geothermal power. One key element will be to present them the huge geothermal potential in Europe. The course aims at providing a geothermal

background to public authorities and the financial sector; and a specialization for geothermal professionals and employees of the oil/gas/mining sectors.

www.egec.org

➤ **SIM SENEGAL 2012**

From : 06.11.2012 Till : 08.11.2012

Location : Dakar, Senegal

SIM Senegal (2nd Senegalese Mining Conference & Exhibition) will take place from 6 – 8 November 2012 at the Hotel King Fahd Palace (formerly known as Le Meridien President), Dakar, Senegal. The event is organized by the Ministry of Energy & Mines, Senegal in association with AME Trade Ltd. The event will feature a three day conference, exhibition and option to visit some of Senegal's key mining sites. SIM Senegal has already established itself as one of the largest mining events in West Africa. The first edition of SIM Senegal in 2010, featured over 500 delegates emanating from more than 25 countries and 52 exhibitors.

www.simsenegal.com/html/onepageone.html

➤ **A Swedish and Polish Contribution to the EU Raw Materials Initiative**

From : 27.11.2012 Till : 27.11.2012

Location : Renaissance Hotel Brussels, Belgium

EU initiatives such as Horizon 2020 and the EIP in Raw Materials, create new opportunities for the mining industry in Member States and for the Union's innovation and growth. Further European cooperation would enable the EU to reduce its import dependency on raw materials. The already ongoing Polish and Swedish cooperation in research & innovation in the mining industry and the development of a common research agenda, which started in 2007 is a good example of successful cooperation which we believe could be used as a benchmark also in other areas. We would therefore like to invite you to attend this conference where we will describe our successful cooperation in greater detail. We are inviting representatives from the Polish and Swedish governments, companies and academia, DG Enterprise, DG Research & Innovation, members of the European Parliament and representatives of EU Member States. The event is organized under the auspices of Permanent Representation of Sweden to the European Union & Permanent Representation of the Republic of Poland to the European Union.

www.euromines.org/event/swedish-and-polish-contribution-eu-raw-materials-initiative

Upcoming Events

➤ IMA Europe 2012 Conference

From : 14.11.2012 Till : 14.11.2012

Location : European Parliament, Brussels

Every second year, the IMA-Europe Conference is a unique opportunity for Industrial Minerals producers in Europe, downstream users, policy makers and other stakeholders to meet, take stock of past achievements, share current objectives and address future challenges facing the industry in a given policy and economic context. Since 2006, the IMA-Europe Recognition Award Ceremony takes place on the occasion of the Conference. In 2012, the IMA-Europe Conference and Award will focus on Resource Efficiency. Producing primary raw materials which are essential for the whole manufacturing industry, the industrial minerals sector has always considered resource efficiency as a key priority. The sector's contribution to resource efficiency is manifold: from efficient extraction, to processing, manufacturing, usage, and end-of-life and finally whenever feasible recycling.

<http://conferenceandaward2012.ima-europe.eu>

➤ American Geophysical Union (AGU) Fall Meeting 2012

From : 03.12.2012 Till : 07.12.2012

Location : San Francisco, California USA

Join more than 20,000 Earth and space scientists, educators, students, and other leaders in San Francisco, California, 3-7 December as they gather to present groundbreaking research and connect with colleagues at the American Geophysical Union's 45th annual Fall Meeting 2012.

<http://fallmeeting.agu.org/2012>

➤ 2nd Graphite Conference 2012

From : 05.12.2012 Till : 06.12.2012

Location : Radisson Blu Portman Hotel, London

The international graphite market has seen a boom over the past three years with the industry seeing rising demand for the mineral from traditional buyers due to the large scale growth coming from emerging markets. In addition, the promise of new technological advances and exciting new applications for the mineral, have led to graphite being hailed as the "one to watch" for resource investors and has brought promising business opportunities for graphite producers and consumers alike. However, there are questions surrounding whether or not graphite can fulfill its predicted potential as one of the most lucrative and highly used minerals of the next decade. Questions over whether or not prices will continue to remain at the high level they are now, in addition to skeptics in the market who question producers' ability to apply the new specialist forms of graphite - such as graphene - in a viable and cost effective

way, have brought about lively and controversial discussions across the marketplace. In light of these exciting developments and following the success of the 2011 conference, Industrial Minerals Events will once again host its 2nd Graphite conference in London, focusing specifically on the issues facing the world of graphite.

www.metalbulletin.com/events/graphite12

➤ Geological Remote Sensing Group (GRSG) AGM 2012: Monitoring and Managing the Earth's Resources

From : 11.12.2012 Till : 13.12.2012

Location : Geological Society Burlington House, London

The conference will present both applied and fundamental research that explores the application of remote sensing in measuring, mapping, monitoring and understanding the geology and geological processes which impact on the Earth's resources. The meeting will include a special interest session on Engineering Applications, and presentations and posters on this theme will be welcome, the session will be organized in association with the Engineering group of the Geological Society. www.grsg.org.uk/drupal/grsg-agm-2012-monitoring-and-managing-earths-resources-0

➤ 24th Colloquium of African Geology (CAG24) + 14th Congress of Geological Society of Africa (GSAf14)

From : 08.01.2013 Till : 14.01.2013

Location : UN Conference Centre, Addis Ababa, Ethiopia

The «Colloquium of African Geology» (CAG) is a major biennial meeting organized under the auspices of the Geological Society of Africa (GSAf). Since the first colloquium in 1965, this Colloquium has been hosted by several European and African countries. The African countries that had a chance to organize this event were Swaziland, Zimbabwe, Morocco, Mozambique, Tunisia and South Africa. Based on the decision of the Geological Society of Africa (GSAf) General Assembly held on 14 January 2011 at the University of Johannesburg, South Africa (during the 23rd Colloquium), the organization of the next Colloquium of African Geology (CAG24) as well as the 14th Conference of the Geological Society of Africa and the 40th Anniversary of the Geological Society of Africa (1973-2013) was assigned to Ethiopia.

This will be conducted at the United Nations Economic Commission Conference Center (UNECA) in Addis Ababa, Ethiopia from 8 to 14 January 2013. The CAG24 will be organized by the Ethiopian Geosciences and Mineral Engineering Association (EGMEA) in cooperation with

Upcoming Events

governmental and non-governmental organizations under the auspices of the Geological Society of Africa (GSAf). The Theme of the Conference is : "40 Years of GSAf (1973-2013): Earth Sciences Solutions to African to African Development Challenges".

www.cag24.org.et

➤ **West-Africa Pre-Salt Forum 2012**

From : 04.12.2012 Till : 06.12.2012

Location : Safari Court Hotel & Conference Center, Windhoek, Namibia

With the current global oil and gas industry focus on exploring alternative regions for production, deep water pre-salt basins along Africa's South Atlantic coast are the newest plays that have attracted majors and independents from around the globe. They are of interest because they share geological similarities with basins off the coast of Brazil, where salt has capped some of the largest oil fields found in recent years. To put this in context, the West Africa Pre-Salt Forum has been organized as the only conference to focus on the opportunities for offshore pre-salt exploration in countries including Angola, Congo (Brazzaville), Namibia, Gabon, DRC and examines why IOCs and NOCs are lining up for the opportunity to access these high impact exploration prospects.

www.presaltafrica.com

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