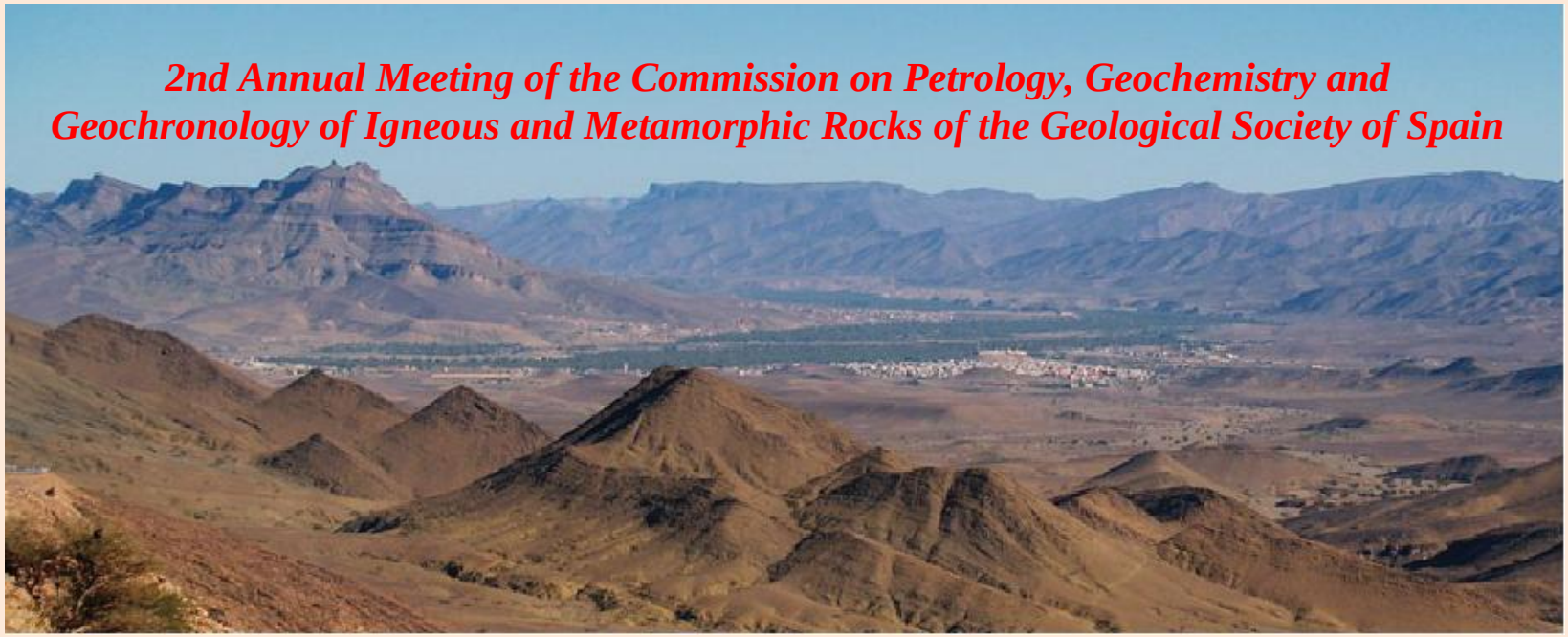
Université Hassan II de Casablanca

IBERIAN-MOROCCAN ANNUAL MEETING



Comisión de Petrología, Geoquímica y Geocronología de Rocas Ígneas y Metamórficas de la Sociedad Geológica de España

Académie Hassan II des Sciences et Techniques

Centre National pour la Recherche Scientifique et Technique

Morocco, 23-27 March 2015

Second Circular

Organizers and objectives

- Comision de Petrologia, Geoquimica y Geocronologia de Rocas Igneas y Metamorficas de la Sociedad Geologica de Espana
- LGAGE, Department of Geology, Faculty of Sciences Ben M'sik, Hassan II University of Casablanca, Morocco

The organizing committee is very pleased to invite you to the «2nd Annual Meeting of the Commission on Petrology, Geochemistry and Geochronology of Igneous and Metamorphic Rocks» of the Spanish Geological Society to be held in Morocco on 23 - 27 March 2015.

The meeting will be five days long, starting at the faculty of Sciences Ben M'sik Casablanca on 23 March, will continue on Agdz through Marrakech (one night) and Ouarzazate (short visit). During the field-trips planed on 25 and 26 March two locations of the Anti-Atlas belt will be visited.
The meeting topics are Petrology, Geochemistry, Geochronology and Metallogeny. Conferences will be addressed by internationally renowned researchers from Spain and Morocco. Keynote talks will be given in the early afternoons. Late afternoons are dedicated to young PhD students and post-doctoral fellows (presentations and debates on their research).

Dates

23-27 March 2015 (3 days Conferences - 2 days Field-trips)

General Congress Program

Registration and Reception: March 23, 2015
Scientific Sessions: March 23-26, 2015
Field-trips: March 25-26, 2015

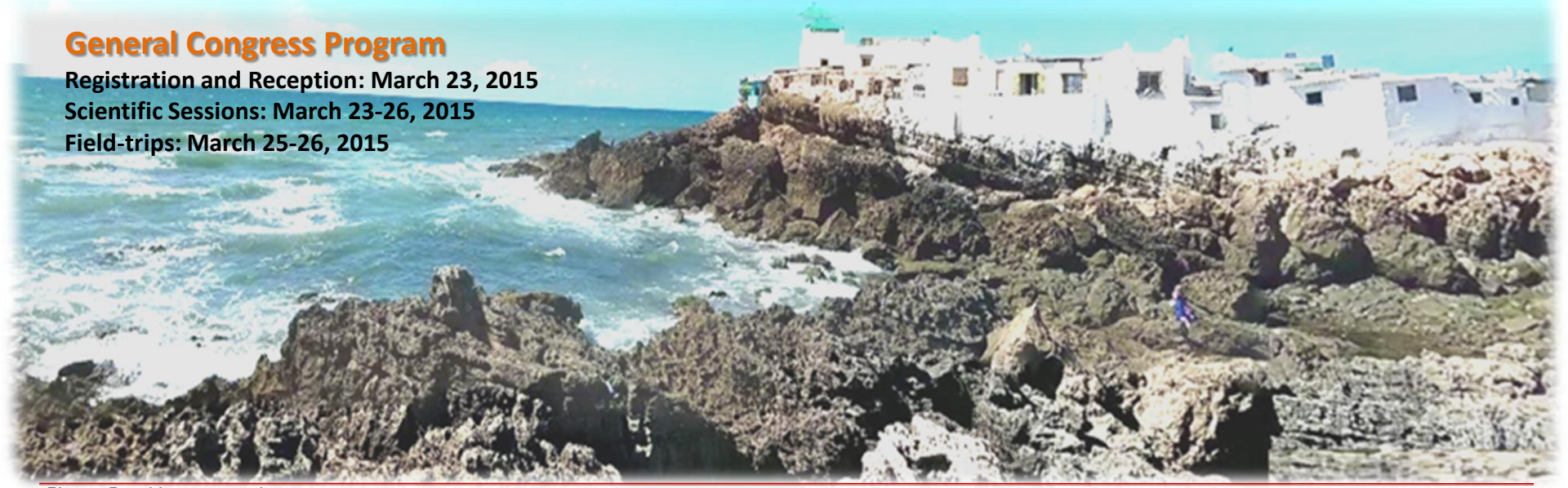


Photo : Casablanca corniche

Registration fee

The registration fee for the Meeting is 340 € (incl. VAT). However, CPGG-RIM members and Moroccan professors will pay only 170 €, the other 50% will be supported by the Hassan II University of Casablanca and other sponsors.

The registration fees of PhD students will be supported by our principal partner MANAGEM and other sponsors (AMST, CNRST, Académie Hassan II des Sciences et Techniques).

Registration fees include transport Casablanca-Marrakech, one night in Marrakech (23 march), transport Marrakech-Ouarzazate-Agdz, the two-days field trips, food, coffee/light refreshments and accommodation in double rooms during the Meeting. Payment can be made during the registration on 23 March 2015.

Please register sending an email to agcasco@ugr.es and faouzyia.haissen@gmail.com. Details are provided in our website:
http://www.ugr.es/~malmolaroko/actividades/2015Antiatlas/antiatlas2015.htm

Places are limited to 50 participants and will be allocated on a first-come first-serve basis

Organizing Committee

Antonio Garcia Casco	(Granada University, Spanish, Chairman of the Meeting)
Faouziya Haissen	(Faculty of Sciences Ben M'sik, Hassan II University of Casablanca, Morocco, Co-Chairman of the Meeting)
Najib Saber	(Faculty of Sciences Ben M'sik, Hassan II University of Casablanca, Morocco)
Hassan El Hadi	(Faculty of Sciences Ben M'sik, Hassan II University of Casablanca, Morocco)
Ahmed Fekri	(Faculty of Sciences Ben M'sik, Hassan II University of Casablanca, Morocco)
Mostafa Oukassou	(Faculty of Sciences Ben M'sik, Hassan II University of Casablanca, Morocco

Meeting Secretariat

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Accompanying persons

The accompanying person registration fees are 170 €

Photo : Jbel Kissane, Agdz

Keynote Speakers

The Organizing Committee will invite prominent scholars to deliver keynote lectures on Petrology, Geochemistry, Geochronology of Igneous and Metamorphic rocks and Metallogeny. Confirmed keynote speakers will be regularly updated in the website of the meeting.
http://www.ugr.es/~malmolaroko/actividades/2015Antiatlas/antiatlas2015.htm

Young Researchers Participation

Young researchers, PhD students as well as post-doctoral fellows within two years of the completion of their PhDs, are invited to present the results of their research. Time slots of 15 minutes (10 + 5) will be given for each talk

Travel, Logistics and Accommodation

Each participant can join the meeting according to flights availability by flying to Casablanca airport or to Marrakech airport on March 23 or 24 morning. We will be leaving Marrakech to Agdz by bus about 10 am of March 24, so participants reaching Marrakech later should make their own travel arrangements to Agdz (very difficult). So, we encourage all participants to arrive at Casablanca on March 23.
Accommodation will be in 3-4 stars hotels, in double rooms. As the excursions will be to high mountain regions all participants should be prepared for both hot and dry, or wet and cold, conditions. We will use 4x4 cars (Field trip 1) and bus (Field trip 2) for transportation in all field trips

Photo : Hassan II Mosque of Casablanca

Monday 23 march 2015

9h : Meeting at the faculty of sciences Ben M'sik (Casablanca) and Registration of participants

Opening session in the presence of:

M. Driss Mansouri, President of Hassan II University
M. Said El Kebbaj, Dean of Ben M'sik Sciences faculty
M. Lhou Maacha, General Manager , MANAGEM
M. Abdellah Mouttaqi, General Manager, ONHYM – President of AMST
M. Azzi Adda, Counciller of Minister of Energy, Mines, Water and Environment
M. Antonio Garcia Casco, President of CPGG-RIM

10h : First lecture by Professor Omar Saddiqi, Dean of Ain Chock faculty of Sciences, Casablanca

"Geology of Morocco: What's new"

11h : Second lecture by Professor Fernando Bea Barredo, Granada University, Spain

«The Alkaline Province of Western Reguibat, South Morocco »

Lunch
Travel to Marrakech by bus (3-4 hours)
Accommodation in « Centre d'Estivage CNSS, Route Targa 40000 Marrakech »
Breaking ice dinner
Night tour in the city

Photo : Azurite, Bou Azzer

Travel to Agdz
through Ouarzazate by bus
(4-6 hours)
Accommodation in hotel
"Kissane"

Tuesday 24 March 2015

Afternoon session conferences

L. Maacha & M. Zohair (Managem holding) :
Systèmes métallogéniques de la boutonnière de Bou Azzer, Anti-Atlas central, Maroc

Ricardo Arenas (Complutense Madrid university, Spain) :
A two-stage collision in the origin of Pangea : Evidence in NW Iberian Massif

Sonia Sanchez Martinez (Complutense Madrid university, Spain) :
Remnants of Paleozoic oceans in the Variscan suture: the ophiolites of NW Iberia

Gabriel Gutierrez Alonso (Salamanca University, Spain) :
Timing of Ibero-Armorican Arc: Paleomagnetism, shear zones and more

PhD Student Presentations

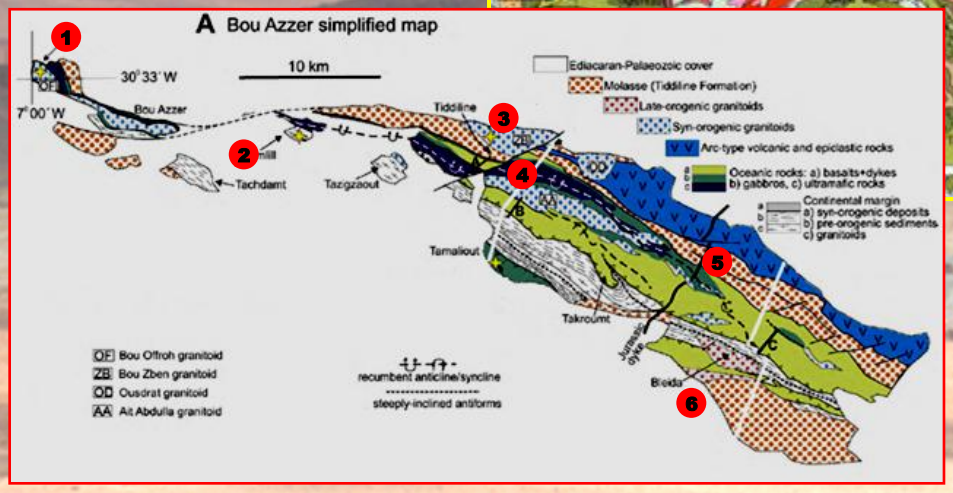
Albert Richard :	Provenance of the Variscan Upper Allochton (Cabo Ortegal Complex, NW Iberian Massif)
Mariame Kholaiq :	Petrography and Structural study of upper Visean basic magmatic rocks of Machraa Ben Abbou basin (northern Rehamna, Western Meseta, Morocco)
Hddine Abdellatif :	Geochimistry and Mineralogy of platinum group minerals (PGM) in the Neoproterozoic ophiolite of Bou Azzer El Graara, Central Anti-Atlas, Morocco
Sara Mountaj :	L'évolution volcanique du maar de Lechmine n'Aït el Haj : Province volcanique Azrou-Timahdite
Alicia Lopez Carmona :	The north Gondwana margin in Iberia: P-T-t constraints from high-pressure rocks (Malpica-Tui Complex, Galicia)
Grace Balambula :	Minéralisation cuprifère du secteur d'Ambed, Bou Azzer, Anti Atlas central, Maroc
Lakroud Kawtar :	Mise en évidence d'une activité éruptive polyphasée: L'exemple du volcan d'Aguelmane Sidi Ali (Moyen-Atlas)

Presentation of the fieldtrip N°1 by Prof. El Hadi Hassan

Photo : Menara, Marrakech

Wednesday 25 March 2015

Field trip 1: Bou Azze Inlier (Excursion leader : Hassan El Hadi)



Stop J1.1 : Bou froukh Bou Azzer quartz-diorite
Stop J1.2 : Oumlil gneiss
Stop J1.3 : Bou Zben quartz-diorite pluton
Stop J1.4 : Bou Azzer ophiolite complex
Stop J1.5 : Foum Zguid 200 Ma old dolerite Jurassic Great-dyke
Stop J1.6 : Bleida granodiorite (580 Ma)

This field trip makes a complete cross-section of the Bou Azzer-El Graara Inlier where the Precambrian basement crops out. The Bou Azzer ophiolitic complex marks the suture of the Pan-African orogenic belt. This fragment of old oceanic crust (697±8 Ma) obducted onto the continental margin of the West African Craton during a collisional event that occurred between 650 and 580 Ma. Very well exposed desert outcrops display serpentinites associated with chromite pods and clinopyroxenolites, ultrabasic and basic cumulates, quartz diorite, a sheeted-dyke complex, basaltic pillow lavas, and red cherts…(an ophiolitic sequence).
Other geological units cropping out in the area are the underlying continental margin of the West African Craton, a volcanic arc next to the oceanic crust represented by the ophiolite and overlying unconformable volcanic and sedimentary rocks.
The unusual character of this Neoproterozoic magmatic and tectonic geoheritage site, together with the excellent quality of the outcrops and the relatively easy access to the area, make this complex attractive from both a scientific and a geotouristic perspective

Photo : Bou Azzer

Wednesday 25 March 2015

Afternoon session conferences

Vicente Lopez Sanchez Vizcaino (Jaen University, Spain) :

Metamorphic evolution of the Cerro del Almirez ultramafic rocks (Betic Cordillera, South Spain) : a proxy to dehydration processes taking place during subduction

Youssef Zerhouni (Casablanca Univesity, Morocco) :

Contrôle du drainage minier acide à l'aide d'un amendement à base de poussières de four de cimenterie et de cendres volantes : Application à la mine de Kettara (Maroc)

Jose Fransisco Molina (Granada university, Spain) :

Calcic amphibole thermobarometry in metamorphic and igneous rocks: new calibrations using high-breakdown point and efficient MM-estimators

Oukassou mostafa (Hassan II - Casablanca university, Morocco) :

Synthèse des datations thermochronologiques de l'Anti-Atlas, Maroc

PhD Student Presentations

El Haibi Hind : Pétrographie et géochimie des affleurements tard-panafricains du domaine varisque marocain

Enrique Merino : Tracing magma sources of three different peraluminous granitoid series by in situ U-Pb geochronology and Hf-isotope zircon composition

Si Mhamedi Hicham : Extraction of structural lineaments from satellite images landsat-7 ETM + Digital Terrain Model in the Paleozoic massif of Tichla (Western High Atlas, Morocco)

Aitor Cambeses : The cambro-Ordovician Paleogeographic position of the Ossa-Morena Zone: tectonomagmatic and geochronological evidence

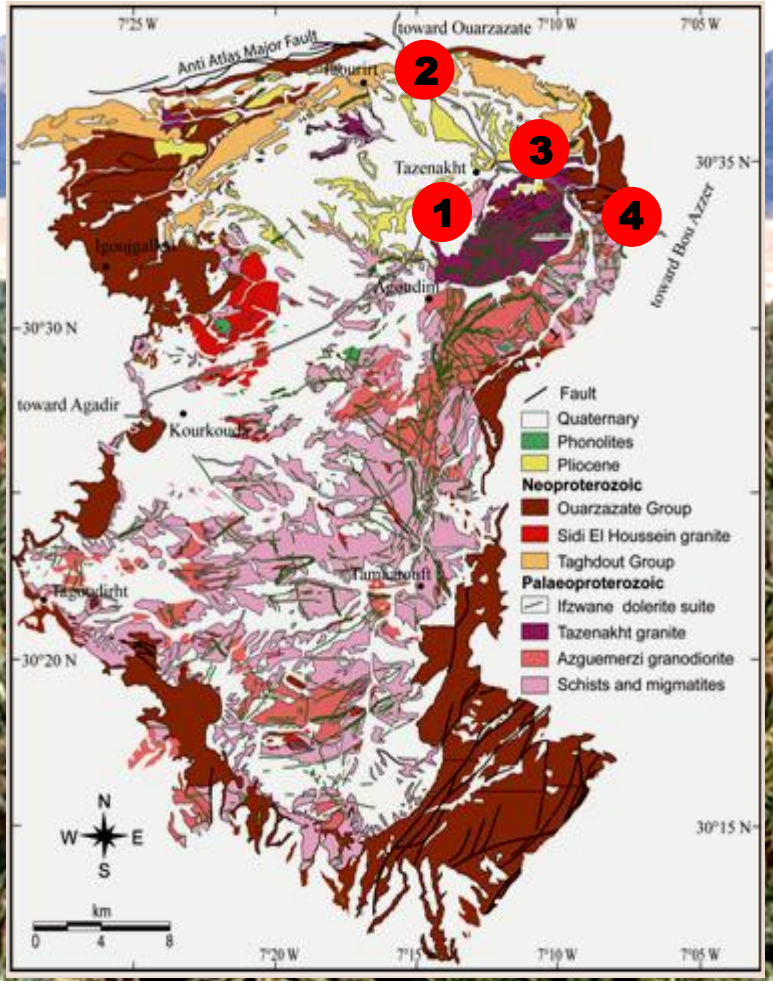
Bhilisse mohamed : Le comportement de cobalt, nickel, chrome et sulfure durant le processus de serpentinisation (la boutonnière de Bou Azzer, Anti-Atlas central)

Rachid Zahour : Le volcanisme dommeen du Néoprotérozoïque terminal de la boutonnière d'Ait Sawn (Anti-Atlas oriental, maroc)

Presentation of the fieldtrip N°2 by Prof. Oukassou mostafa

Photo : Erythrite, Bou Azzer

Thursday 26 March 2015



Field trip 2 : Zenaga Inlier
Excursion leader : Oukassou Mostafa

The Zenaga inlier located south of the AAMF is a topographic depression of about 900 km^2 containing mainly Paleoproterozoic gneisses and granitoids unconformably overlain by the late Neoproterozoic Ouarzazate volcanic Group or by the Late Neoproterozoic-Cambrian sedimentary Taroudant and Tata Groups. Within the inlier, Neoproterozoic rocks consist of passive margin sediments (Taghdout Group), pre-Pan-African doleritic dykes and sills swarms and a late Pan-African alkaline ring-complex.

The Azguemerzi pluton is a peraluminous granodiorite-monzogranite; the Tazenakht pluton is a porphyritic monzo-syenogranite; both are dated at c. 2030 Ma. The country-rocks are amphibolite facies schists and gneisses. The Pan-African greenschist facies deformation developed under N–S directed stress, which formed tight folds in the Neoproterozoic Quartzites and Limestones (Taghdout Group), and caused mylonitization of the northern part of the Tazenakht pluton with sinistral strike-slip. The Sidi el Hussein ring-dyke granite is dated at 579 ± 7Ma.

Stop J2.1: Paleoproterozoic schists of the Zenaga Group
Stop J2.2: Neoproterozoic Quartzites and Pan-African deformation
Stop J2.3: Tazenakht Paleoproterozoic granite and Late Neoproterozoic unconformity
Stop J2.4: Base of the Adoudounian limestones
Stop J2.5: Paleozoic succession of the Central Anti-Atlas
Stop J2.6: Jbel Kissane «First Bani » at Agdz

Photo : Agdz Oasis

Thursday 26 March 2015

Afternoon session conferences

Encarnacion Roda Robles (Pais Vasco university, Spain):

Li ditribution in the Central Iberian Zone (Spain and Portugal): Geological implications

Samira Makhoukhi (Hassan II Casablanca university, Morocco):

Circulations hydrothermales minéralisantes liés à la mise en place des roches plutoniques: Cas du district minier de Tighza (Massif hercynien central, Maroc

Ismahane Chaouche (Abou Bekr Belkaid University, Algeria) :

Les minéralisations aurifères due terrain d'Iskel (Hoggar occidental, sud d'Algérie)

Chellai Hassan (Cadi Ayyad Marrakech university, Morocco):

The Bou Azzer glaciation: Evidence for an Edicaran glaciation on the West African Craton (Anti-Atlas, Morocco)

PhD Student Presentations

Bouchra Baidada : Etude des minéralisations à Cu-Pb-Zn-Au-Ag; Pb-Ag et Mo situées entre la mine d'Imiter et celle de Tiouit (Massif précambrien de Saghro, Anti-Atlas oriental, Maroc): Implications métallogéniques et géodynamiques

Ougadire Mohamed : Estimation du potentiel géothermique de la marge atlantique marocaine: définition des réservoirs de socle pour une utilisation géothermique

Najih Amine : Etude pétro-structurale, géochimique et géochronologique du complexe alcalin de Tafilalt

Abdelmounji Amine : L'histoire éruptive du volcan ouest Timahdite: Moyen Atlas, Maroc

Mekraoui hanane : Synthèse des connaissances sur les granitoides du Maroc: Typologie par télédétection et analyses

Angela Claro : Relationships between magma intrusion and Miocene volcanic complexes collapses in Fuentevera (Canary Islands) using analogue models

Friday 27 March 2015

Travel back to Marrakech and Casablanca

Photo : Paleozoic of Anti Atlas central