

Under the High Auspices of the Ministry of Industry and Mines



Organize

The 4th Colloquium of the International Geosciences Programme (IGCP638) in Algeria

Geodynamics and Mineralizations
of Paleoproterozoic formations
for a sustainable development

Algiers, October 28th - 29th, 2019

PROGRAM



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Karima Tafer (ASGA, Algiers, Algeria)

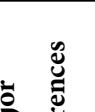
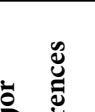
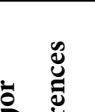
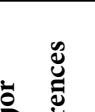
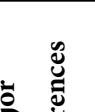
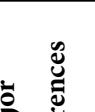
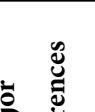
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ASGA: Agence du Service Géologique de l'Algérie, **CRAAG:** Centre de Recherche en Astronomie, Astrophysique et Géophysique, **ESMG:** Ecole Supérieure des Mines et de la Géologie, **FSAC:** Faculté des Sciences Aïn Chock, **GET :** Géosciences Environnement Toulouse, **IFAN :** Institut Fondamental d'Afrique noire, **IAST :** Institut d'Architecture et des Sciences de la Terre, **IRD :** Institut de Recherche pour le Développement, **SODEMI :** Société pour le Développement Minier de la Côte d'Ivoire, **UCA:** Université Cadi Ayyad, **UCAD:** Université Cheikh Anta Diop de Dakar; **UFA:** Université Ferhat Abbas, **UFHB:** Université Félix Houphouët-Boigny, **UFRSTRM :** Unité de formation et de Recherche des Sciences de la Terre et des Ressources Minières, **UH2C:** Université Hassan II Casablanca, **UPS :** Université Paris-Sud, **USTHB:** Université des Sciences et de la Technologie Houari Boumediene

28/10/2019	Registration and welcoming of participants : 8h00 - 9h00			
28/10/2019	Official opening ceremony : 9h00 - 9h30			
28/10/2019	MORNING  			
	09h30 to 10h30	10h30 to 11h00	11h00 to 13h00	13h00 to 14h30
Major Conferences				14h30 to 16h00
				16h00 to 16h30
				16h30 to 17h30
29/10/2019	MORNING  			
	08h30 to 10h30	10h30 to 11h00	11h00 to 13h00	13h00 to 14h30
Room 01				14h30 to 16h00
				16h00 to 16h30
				16h30 to 18h00
29/10/2019	MORNING  			
	08h30 to 10h30	10h30 to 11h00	11h00 to 13h00	13h00 to 14h30
Room 02				14h30 to 16h00
				16h00 to 16h30
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Monday, October 28, 2019

8h00 - 9h00	Registration and welcoming of participants
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9h00 - 9h30	Official opening ceremony
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	Major Conferences
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Schedules	Authors	Titles
9h30 - 10h00	Arezki ZERROUKI	Mineral resources in Algeria : state of play and perspectives
10h00 - 10h30	Djamel-Eddine AISSA	Mineral exploration in Algeria : current state and perspectives
Coffee Break / Poster session		
11h00 - 11h30	Mohamed Idir MOUZAÏA	Iron mines in Algeria
11h30 - 12h00	Rabah LAOUAR	Two contrasting sources for base-metal mineralization in Northeast Algeria: Evidence from fluid inclusion and stable isotope studies
12h00 - 12h30	Tahar AÏFA	Are there any correlations between West African Craton and Rio de la Plata Craton?
12h30 - 13h00	Debate	

13h00 - 14h30	Lunch
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14h30 - 15h00	Charaf Moulay CHABOU	First evidence of late Permian alkaline magmatism at the edge of the Sahara Platform (north of the West African Craton) : geochronological/geochemical data and geodynamic significance
15h00 - 15h30	Cliff TAYLOR	Metallogenetic implications of a new geodynamic model for the Eglab, Algeria
15h30 - 16h00	Khadidja OUZEGANE	REE-rich minerals in Paleoproterozoic carbonatites from Ihouhaouene - Hoggar
Coffee Break / Poster session		
16h30 - 17h00	Arezki ZERROUKI	Geological heritage: legal aspects and methodological approach
17h00 - 17h30	Debate	

Tuesday, October 29, 2019

Session 2 : Tectono-structural constrains, geological events, fluid inclusions, metamorphism, geochemistry and geochronology of Paleoproterozoic terrains.

Room 01

Session president : Djamal-Eddine AISSA

Assessor : Moussa DABO

Schedules	Authors	Titles
8h30 - 8h45	Wiledio Marc-Emile BONZI	Geochemistry of micas and accessory minerals in P-rich YF pegmatites at Mangodara, Burkina Faso and West Africa
8h45 - 9h00	Gnagnon R. Stéphane KOFFI	Re-evaluation of Leonian and Liberian events in the geodynamical evolution of the Man Shield (West African Craton)
9h00 - 9h15	Abdoulwahid SANI	The DASA graben in Northern Niger, a case of a Paleo-Mesozoic basin evolving from uplifting to rifting
9h15 - 9h30	Mohamed TALBI	The In Allaren mafic-ultramafic complex (Western Hoggar, South Algeria)
9h30 - 9h45	Adama Ouédraogo YAMEOGO	Rheological context of emplacement of the Dori and Gorom-Gorom plutons (northeast of Burkina Faso)
9h45 - 10h00	Martial Pohn Koffi ADINGRA	Petrographic and geochemical features of low to medium grade birimian metasedimentary rocks of the Comoe Basin (North of Alépé - Southeast part of Ivory Coast)
10h00 - 10h15	Romaric Vihotogbé SENOУ	Geochemical characterization of oils discovered from Offshore Benin Basin (Benin, West Africa)
10h15 - 10h30	Ousmane WANE	Structural Eburnean Events in the Massigui Square Degree (southern Mali, northwestern Man Shield, WAC): A review
10h30 - 11h00	Coffee Break / Poster session	
11h00 - 11h15	Karima LACENE	The evolution of the metamorphic series of the Serouanout terrane (Central Hoggar): Petrology, Geochronology and P-T evolution
11h15 - 11h30	Moussa DABO	Mafic and felsic magmatic mingling in the Paleoproterozoic formations of the Mako sector (Kédougou-Kéniéba Inlier, Senegal): geodynamic implications
11h30 - 11h45	Saga SAWADOGO	Granitic pluton of Zorgho: emplacement context and relationship with Markoye Sear Zone (Center of Burkina Faso)
11h45 - 12h00	Benjamin SAWADOGO	High-resolution landform-regolith mapping in a greenstone belt context of the Soudanian zone: Implications to mineral exploration
12h00 - 12h15	Brahim AYAD	Lithological mapping using pure pixels from Sentinel 2A multispectral images: Example of Issalane region in Central Hoggar (Algeria)

Session 6 : Chronostratigraphy, sedimentology and stratigraphy of the Precambrian.

Room 01

Session president : Rahah LAOUAR

Assessor : Mohamed TALBI

Schedules	Authors	Titles
12h15 - 12h30	Adiss Kamal ISSIFOU FATIOU	Sporo-pollenic content survey of the Oligocene ironstones of the Continental Terminal formation, Kandi Basin (North-East Benin)
12h30 - 12h45	Michael TOSSOU	Characterization of the morpho-sedimentary dynamics at the scale of Benin coastal lagoon (between Grand-Popo and Togbin)
12h45 - 13h00	Adéniran Rodrigue Michel Archange ADÉCHINA	Holocene spatio-temporal evolution of Oueme Delta in Benin in response to the variations of the eustatic level

13h00 - 14h30	Lunch
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Schedules	Authors	Titles
14h30 - 14h45	Elizabeth CHACON BACA	Revisiting the Huepac chert: mineralization of a non-marine Late-Cretaceous microbial population deposit
14h45 - 15h00	Miloud BENHAMOU	New soft-sediment deformation structure in the Miocene of Ouarsenis (Algeria), paleoseismic evidence
15h00 - 15h15	Nahla CHIBOUT	The Aptian of Kef Gouriret (Oum El Bouaghi): lithostratigraphy, biostratigraphy and palaeoenvironment
15h15 - 15h30	Sarah CHABANE	Stratigraphic and sedimentary evolution of the Paleocene-Eocene in Cheria region (Tebessa, SE Algerian)

Session 4 : Geophysical exploration and mineral resources.

Room 01

Session president : Tahar AÏFA

Assessor : Nacer Eddine MERABET

Schedules	Authors	Titles
15h30 - 15h45	Anis BARHOUMI	Application of gravity methods to the exploration of Pb-Zn-Ba deposits, case study: Fej Lahdoum mine, Northern Tunisian Atlas
15h45 - 16h00	Mejda Amira BOUSSADA	Paleomagnetic and magnetostructural study of Jurassic formations of Gara Djebilet (Tindouf Basin, Southwestern Algeria)
16h00- 16h30	Coffee Break / Poster session	
16h30 - 16h45	Rakiatou SOULEY ALHOU SERKIN	Geophysical data analysis and interpretation of the Tiawa prospect: Samira, Libiri and Boulon Djouniga sectors (Liptako, West Niger)
16h45 - 17h00	Bertrand Houngnigbo AKOKPONHOUE	Use of high resolution 2D electric resistivity tomography for mapping of the geological structures of the north-western portion of Benin: case of the department of the Donga
17h00 - 17h15	Zakaria OUZERBANE	Cartography of coastal aquifers in the Essaouira region by application of the geo-electric method (Essaouira, Morocco)
17h15 - 17h30	Ahmed Ali ZERROUKI	Study of physical and petrophysical properties of Hamra Quartzites formation (Hassi Messaoud field, Algeria)
17h30 - 18h00	Debate	

Session 1 : Mineral resources and sustainable development.

Room 02

Session president : Khadidja OUZEGANE

Assessor : Cliff Dudley TAYLOR

Schedules	Authors	Titles
8h30 - 8h45	Abdelhak BOUTALEB	Synthesis on the metallogeny of Tlemcen Mounts
8h45 - 9h00	Adil CHATIR	Mineralogy and formation of the Nkob talc deposit (Central Anti-Atlas, Morocco)
9h00 - 9h15	M. Moustapha SANDA CHÉKARAOU	Occurrences of heavy minerals and REEs in the Pan-African formations of the Mounio Massif, Southern extension of the Trans-Saharan Range (Gouré, East Niger)
9h15 - 9h30	Diafarou ALZOUMA AMADOU	Stockwork exhibiting polymetallic occurrences in the Neoproterozoic sediments of Firgoun area, West Niger, Eastern border of West African Craton
9h30 - 9h45	Hamidou GARBA SALEY	Nickel mineralizations of the Birimian greenstone belt of Makalondi (Liptako Province of Niger, West Africa)
9h45 - 10h00	Cossi Luc ADISSIN GLODJI	Late orogenic structural evolution of auriferous formations of Atacora unit from the Natitingou area (Pan-African Dahomeyides Belt, West Africa)
10h00 - 10h15	Hallarou MALLAM MAMANE TCHIFA	Structural study of Kourki Copper-Molybdenum indices of the Birimian belt of Gorouol (Liptako, North-west Niger)
10h15 - 10h30	Khaled LAOUAR	Rare Earth Elements in phosphorites from the Bled El Hadba deposit (NE Algeria): concentration, behaviour and depositional environment
10h30 - 11h00	Coffee Break / Poster session	

Schedules	Authors	Titles
11h00 - 11h15	Séta NABA	Factors of copper mineralization in the Gaoua deposit (southwestern Burkina Faso)
11h15 - 11h30	Seydou Mathurin DAÏ BI	Characterization of the gold mineralization of the Tondabo gold prospect in the Brobo region (Ivory Coast, West Africa)
11h30 - 11h45	Walid REZIG	Mineralogical quantitative, crystalline and morphological characterization of siliceous material from the rocks modified by ferric oxide and oxyhydroxide
11h45 - 12h00	Lounis SAMI	Gitology and Geochemical features of the mineralizing fluids of Es Souabaa Ba-F Pb-Zn prospect (Mellegue Mounts, NE Algeria)
12h00 - 12h15	Fatchéssin Bruno ADJO	Two styles of primary gold mineralization in the Atacora Structural Unit from the Natitingou area, Northwestern Bénin (Pan-African Dahomeyides Belt, West Africa)
12h15 - 12h30	Mouloud ISSAAD	Environmental characterization of mine waste at the Pb-Zn Sidi Kamber abandoned mine (NE Algeria)
12h30 - 12h45	Frank K. NYAME	Relationship between alteration and mineralization in a mesothermal gold prospect at Akoase, northeastern Axim-Konongo (Ashanti) belt, Ghana
12h45 - 13h00	Mahaman Mansour BADAMASSI KADRI	Geological context of Pb-Zn mineralization of the Damagaram Pan-African basement (Southeastern Niger)
13h00 - 14h30	Lunch	

Session 3 : Hydrogeology and environment for a sustainable and drinking water.

Room 02

Session president : Arezki ZERROUKI

Assessor : Alain Nicaise KOUAMELAN

Schedules	Authors	Communication titles
14h30 - 14h45	Hanane AIT HMEID	Valorization of Moroccan bentonite deposits : adsorption and stabilization of phenol by bentonite
14h45 - 15h00	Michaela R. JOHNSON	Using mobile GIS applications to support mineral resource investigations in the Eglab region, Algeria
15h00 - 15h15	Rabah KECHICCHED	Non-conventional rare earth element resources from Algerian sedimentary phosphorites (Tébessa, NE Algeria): a comparative study of thier abundance and distribution
15h15 - 15h30	Fatima HAMRANI	Estimation of the pollution risk induced by the mining wastes of the El Abed mine, Tlemcen, Algeria
15h30 - 15h45	Kadio Hilaire NIAMKE	Contribution of remote sensing and hydrographic morphology observation to map Proterozoic rocks in Ivory Coast
15h45 - 16h00	Debate	
16h00 - 16h30	Coffee Break / Poster session	

Poster Session

Authors	Titles
Bakelli A., Sami L., Kolli O. and Boutaleb A.	Characterization of fluorite mineralization in North Hameimat by fluid inclusions and stable isotopes
Bellaoueur A. and Hacini M.	Impact of trace elements on brines: Chotts and Sebkhas of the Algerian Low Sahara
Benali Khodja M. and Metouchi A.	Study of the variability of annual rainfall series in the Isser Wadi (East of Algiers)
Benchabane N.-E.-I., Chabour N., Djebbar M., Dib H. and Gaci N.	Study of hydrosystems dam-groundwater: case of the Beni Haroun dam (Oued El Kebir) and the surrounding groundwater bodies
Benhamida F., Menad W. and Belkercha M.	Paleoenvironmental study of the Messinian series of Djediouia, Lower Chelif Basin, Algeria
Bentaalla-Kaced S., Aïfa T., Deramchi K., Nacer D.-E. and Bourria S.	Extraction de l'uranium à partir d'un gisement non conventionnel par la méthode d'émission radiométrique : Application au gisement de phosphate de Dj. Onk, Algérie Orientale
Boutrika R., Aïssa D.-E. and Kolli O.	Characteristic features of the In Abeggui gold deposit (Hoggar Shield, South Algeria)
Cisse I.	Artisanal exploitation of gold in the Birrimian Guinee Bassin (Siguiri)
Diongue D.-M.-L., Abdoulaye D. and Serigne F.	Hydrochemical characterization of water resource in the southeastern part of Senegal. Impact of mining in the Kedougou region
El Krouni M., Makhoukhi S., IlmenS. and Moundi Y.	Petro-structural and geochemical characterization of the mineralization of the El-Gir deposit (Bou Azzer-El Graâra inlier, Central Anti-Atlas, Morocco)
Gaci N., Sami L. and Boutaleb A.	Geology of Triassic Complex of Koudiat Djebassa Area El Mhir, Bordj Bou Arreridj, Algeria
Kebir C., Djemai M. and Mesbah M.	Current situation of the mobilization of water resources by the large dams in the northern-central part of Algeria
Merchichi A., Ould Hamou M. and Hamrani F.	Experimental study of the geochemical behavior of mine tailings
Ouarekh M., Bouselsal B. and Belksier M.-S.	Assessment and mapping of the water quality of the Terminal Complex groundwater using GIS interpolation techniques (Oued Souf, Southeast Algeria)
Semchaoui A.-A., Zerrouki T. and Boutaleb A.	Draïssa barite deposit (Ougarta chain, SW of Algeria): geology and gitology
Toumi M., Makhoukhi S. and Remmal T.	Petro-structural and geochemical characterization of magmatism of the mining district of Tighza (Central Massif, Morocco)
Zerrouki T., Boutaleb A. and Semchaoui A.-A.	Iron ore mineralization of Chaabet El Bellout (Tablecloth area, Souk Ahras - Algeria)



Lot 11 Décembre 1960 El-Biar, Algiers - Algeria.

Tél : +213 (0) 21 79 76 52 - Fax : +213 (0) 21 79 76 62
web : asga@asga.dz