



## 5<sup>th</sup> Colloquium of the International Geoscience Programme (IGCP638) in Ghana

Accra, December 4<sup>th</sup> - 5<sup>th</sup> , 2022  
[University of Ghana](#)  
Followed by a field trip, Dec. 6<sup>th</sup> – 9<sup>th</sup>

### Geodynamics and Mineralization of Paleoproterozoic formations for a sustainable development

Sponsored by UNESCO (IGCP) and organized by [The University of Ghana](#)

#### PARTNERS



#### IGCP638 Leaders:

Tahar AïFA / University of Rennes 1 (France)

Moussa DABO / FST / University Cheikh Anta Diop of Dakar (Senegal)

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<http://igcp638.univ-rennes1.fr>

## INTRODUCTION

'AKWAABA' (welcome) to the fifth symposium of the **IGCP638** on the **Geodynamics and mineralization** of the West African Craton (WAC), which will take place on **December 4<sup>th</sup> - 9<sup>th</sup>, 2022** in **Ghana**. It will be jointly organized by the local organizing committee and the members of the West African Exploration Initiative (WAXI).

It will join the international scientific community (academia and industry) on the topic: **“Geology of the Paleoproterozoic formations for sustainable development”**. The symposium will be in two parts:

- (i) The event will proceed as follows: two (2) days of conference proceedings in **Accra** followed by three (3) days of field trips according to the schedule indicated below. The sets of themes of the conference will relate to geodynamics, mineralization, geochemistry, geochronology, geophysics, mapping, lithology, sedimentology, imagery, environment (pollution and deforestation related to mines), climate change and other related subjects.

The events and targets are expected to: (i) generate active exchanges between the actors of the field (enquiring, expert mining); (ii) produce scientific knowledge on the geology of the WAC for the benefit of academia and teaching programmes and facilitate mining exploration; (iii) reinforce the capacity of the participants on the field methods of the Paleoproterozoic (Birimian) basement geology by the means of field trips (possible sampling of specimens).

## COMMITTEES

### LOCAL ORGANIZING COMMITTEE

Prince Ofori Amponsah (UG, WAXI): <b>President</b>	Daniel Kwayisi (UG, WAXI): <b>Vice-President</b>
Jennifer Agbetsoamedo (UG)	Yvonne Loh (UG)
Larry Pax Chegbeleh (UG)	Elikplim Dzikunoo (UG)
Patrick Asamoah Sakyi (UG)	Samuel Nunoo (UG)
Daniel Asiedu (UG, WAXI)	Mary Klu (UG)
Abigail Ayikwei (UG, WAXI)	Marian Selorm Sapah (UG, WAXI)

### INTERNATIONAL SCIENTIFIC COMMITTEE

Abdeslam Abtout (CRAAG Algiers, Algeria)	Alain Kouamelan (UFHB, UFR STRM, Ivory Coast)
Tahar Aïfa (Univ. Rennes 1, France)	Fernand Kouamé (UFHB, UFR STRM, Ivory Coast)
Djamel-Eddine Aïssa (USTHB Algiers, Algeria)	Daniel Kwayisi (UG, WAXI)
Laurent Ameglio (GyrolAG Potchefstroom, RSA/Perth, Australia)	Rabah Laouar (Univ. Annaba, Algeria)
Daniel Asiedu (UG, WAXI)	Jean-Pierre Lefort (Univ. Rennes 1, France)
Etienne Assié (SODEMI Abidjan, Ivory Coast)	Ulf Linnemann (Univ. Dresden, Germany)
Kamel Amri (USTHB Algiers, Algeria)	Khalidou Lo (Univ. Nouakchott, Mauritania)
David Atta-Peters (UG)	Martin Lompo (Univ. Ouagadougou, Burkina Faso)
Lahssen Baidder (UH2C Casablanca, Morocco)	Saïd Maouche (CRAAG Algiers, Algeria)
Bruce Banoeng-Yakubo (UG)	Henrique Masquelin (Univ. Montevideo, Uruguay)
David Baratoux (IRD/GET France)	Sharad Master (Univ. Witwatersrand, Johannesburg, RSA)
Lenka Baratoux (IRD/GET France)	Nacer Merabet (CRAAG Algiers, Algeria)
Fernando Bea (Univ. Granada, Spain)	André Michard (UPS Orsay, France)
Hanafi Benali (USTHB Algiers, Algeria)	Yves Missenard (UPS Orsay, France)
Abderrahmane Bendaoud (USTHB Algiers, Algeria)	Sylvain Mondé (UFHB, UFR STRM, Ivory Coast)
Miloud Benhamou (Univ. Oran, Algeria)	Pilar G. Montero (Univ. of Granada, Spain)
Mohamed-Cherif Berguig (USTHB Algiers, Algeria)	Khadidja Ouzegane (USTHB Algiers, Algeria)
Tayeb Bouima (IAST-UFA Sétif, Algeria)	Séta Naba (Univ. Ouagadougou, Burkina Faso)
Abdelhak Boutaleb (USTHB Algiers, Algeria)	Papa Malick Ngom (UCAD, Senegal)
Moulay Charaf Chabou (IAST-UFA Sétif, Algeria)	Johnson Manu (UG)
Amar Cherigui (ASGA, Algiers, Algeria)	Papa Moussa Ndiaye (Univ. UCAD, Senegal)
Yacouba Coulibaly (UFHB, UFR STRM, Ivory Coast)	Gbèlè Ouattara (ESMG Yamoussoukro, Ivory Coast)
Moussa Dabo (UCAD, Senegal)	Cees Passchier (Univ. Mainz, Germany)
Edjikémé Emeruwa (UFHB, UFR STRM, Ivory Coast)	Abdelkader Saadallah (Saadgeo Stavanger, Norway)
Abderrahmane Essaifi (Univ. Marrakech, Morocco)	Omar Saddiqi (FSAC UH2C Casablanca, Morocco)
El-Hocine Fettous (USTHB Algiers, Algeria)	Raphaël Sarr (Univ. UCAD, Senegal)
Denis Gapais (Univ. Rennes 1, France)	Bernhard Schulz (Univ. Freiberg, Germany)

Ouattara Gbélé (Univ. Yamoussoukro, Ivory Coast)	Nagnin Soro (UFHB, UFR STRM, Ivory Coast)
Mohamed Ghanmi (Univ. Tunis El Manar, Tunisia)	Karima Tafer (ASGA, Algiers, Algeria)
Mohamed-Said Guettouche (USTHB Algiers, Algeria)	Marieke Van Lichtervelde (IRD, IFAN, France)
Mamadou Guèye (Univ. UCAD, Senegal)	Ousmane Wane (Univ. Bamako, Mali)
Mohamed Hamoudi (USTHB Algiers, Algeria)	Alphonse Yao (ESMG Yamoussoukro, Ivory Coast)
Dalila Hammor (Univ. Annaba, Algeria)	Albert Kouamé Yao (UFHB, UFR STRM, Ivory Coast)
Faouziya Haissen (UH2C Casablanca, Morocco)	Sandow Mark Yidana (UG)
Moha Ikenne (Univ. Agadir, Morocco)	Nasreddine Youbi (UCA Marrakech, Morocco)
Mark Jessel (Univ Western Australia, Perth, Australia)	Arezki Zerrouki (ASGA, Algiers, Algeria)
Omar Kolli (USTHB Algiers, Algeria)	

ASGA: Agence du Service Géologique de l'Algérie, ESGM: Ecole Supérieure des Mines et de la Géologie, FSAC: Faculté des Sciences Ain Chock, GET : Géosciences Environnement Toulouse, IFAN : Institut Fondamental d'Afrique noire, 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, UG : University of Ghana, Legon, USTHB : Université des Sciences et de la Technologie Houari Boumediene, UFHB: Université Félix Houphouët-Boigny, UFR STRM : Unité de formation et de Recherche des Sciences de la Terre et des Ressources Minières, UH2C: Université Hassan II Casablanca

## DATES

Publication of the 2<sup>nd</sup> circular: [July 15<sup>th</sup>, 2022](#)

Session submission deadline: [August 20<sup>th</sup>, 2022](#)

Abstract submission deadline: [August 20<sup>th</sup>, 2022](#)

Publication of the final circular: [September 10<sup>th</sup>, 2022](#)

Notification of accepted abstracts: [September 20<sup>th</sup>, 2022](#)

Payment fees: [on site at the Conference or through WU](#)

Money transfer deadline: [Western Union/Electronic wiring till October 15<sup>th</sup>, 2022](#)

Confirmation deadline to attend the meeting: [September 20<sup>th</sup>, 2022](#)

## CONFERENCE PROGRAMME

Registration and reception: [December 4<sup>th</sup>, 2022](#)

Talks and plenaries: [December 5<sup>th</sup>, 2022](#)

Scientific sessions: [December 5<sup>th</sup>– 6<sup>th</sup>, 2022](#)

Field trip: [December 7<sup>th</sup> – 9<sup>th</sup>, 2022](#)

## REGISTRATION

Online registration is open till [August 15<sup>th</sup>, 2022](#). The registration form is available on the Website (<https://igcp638.univ-rennes1.fr/>) to page of events (Abstracts): (i) register online before (ii) sending your abstract online as well. A receipt will be sent to you automatically.

## Registration fees

Category	Fees (us \$)	Remarks
<b>Colloquium</b>		
Academic	250 us \$	<i>The fees will be adjusted in the 2<sup>nd</sup> circular depending on sponsors financial support</i>
Other professionals		
Student	70 us \$	
<b>Field trip</b>		
Academic	300 us \$	<i>The number of places is limited to 30.</i>
Other professionals	450 us \$	<i>Participation is on a first come, first served.</i>
Student	150 us \$	

Registrations are open online (<https://igcp638.univ-rennes1.fr/>).

(i) The registration fees cover the following services:

- Conference materials and/or field trip (abstracts and/or field trip guide booklet)

(ii) The registration fees for the field trip cover the following services:

- Transportation
- Accommodation
- Food services

**NB:** The Steering Committee will support the transport for the field trip and also plan to support the accommodation of some participants, in particular PhD students.

Accommodation and food services (apart from the coffee breaks and lunches) are the responsibility of the participant.

## OFFICIAL CEREMONY

**Under the chairmanship of the Minister of Education**

**Allocutions of:**

- President of the organizing committee
- Vice-Chancellor of the University of Ghana, Legon
- The Minister of Lands and Natural Resources

## PLENARIES

Expected topics of potential invited keynote speakers, selected for the plenary meeting of 20-30 mins each, including presentation and discussion, will be given in the 2<sup>nd</sup> circular. **Some of the titles could be provisional.**

Plenaries	Conference titles	Speakers	Conveners
1	Geoscience Education in Ghana	Pr. Daniel Asiedu <sup>1</sup>	in progress
2	Mineral resources in Ghana	Pr. Bruce Banoeng-Yakubo <sup>1</sup>	in progress
3	Structural framework of the Paleoproterozoic Birimian in Ghana	Dr. Lenka Baratoux <sup>2</sup>	in progress
4	Oil Exploration in Ghana : New insights	Ebenezer Apesegah <sup>1</sup>	in progress
5	Groundwater and sustainable development in Ghana	Pr. Sandow Mark Yidana <sup>1</sup>	in progress
6	Artisanal and small-scale mining in Ghana, challenges, and the way forward	Pr. Thomas Mba Akabzaa <sup>1</sup>	in progress

<sup>1</sup>UG : University of Ghana, Legon ; <sup>2</sup>IRD : Institut de Recherche pour le Développement

## ORAL COMMUNICATIONS & POSTERS

The oral and poster sessions are focused on the following sub-topics:

- (1) Mineral resources and sustainable development
- (2) Tectono-structural constraints, geological events, fluid inclusions, metamorphism, geochemistry and geochronology of Paleoproterozoic terrains.
- (3) Hydrogeology for sustainable and drinking water.
- (4) Climate Change and the environment.
- (5) Geophysical exploration and mineral resources.
- (6) Education and policies in Earth sciences.
- (7) Chronostratigraphy, sedimentology and stratigraphy of the Precambrian.
- (8) Geopark, geotourism and geo-ethics for promotion of Earth heritage.

*The sub-topics may have several subjects.*

## SUBMISSION OF ABSTRACTS

All the abstracts will be examined by the scientific committee of the IGCP638 and the authors whose abstracts are accepted will be advised. The abstracts will be accepted for an oral or a poster presentation. Presenters are enjoined to indicate their preference at the time of submission. The abstracts must be submitted only online using the Word format; the procedure to follow is indicated on the Website (<https://igcp638.univ-rennes1.fr/>) on the page of events ([Abstracts](#)). Before submitting their abstracts, authors should refer to the format suggested ([Abstract Template](#)) on the [Website](#) and apply accordingly.

The Abstract submission deadline is **August 20<sup>th</sup>, 2022**.

Acceptance will be decided on **September 20<sup>th</sup>, 2022**.

**NB :** PhD students having the best abstracts will be sponsored to attend the event (according to the cash in hand).

## EXHIBITIONS

The exhibitions will offer a single occasion of networking for the geoscientists to meet the representatives of the Research institutes and companies. It will also allow the companies to conclude marketing, the development of the business and recruitment. The exhibitions will be open throughout all conference. The potential exhibitors must contact the secretariat of the conference by E-mail at: [igcp638@univ-rennes1.fr](mailto:igcp638@univ-rennes1.fr)

## FIELD TRIP

The post-conference field trip (December 6<sup>th</sup> - 9<sup>th</sup>, 2022) will be held according to the program below. The main aim, with the help of some specialists of this area, is to allow the participants to have a field view of the:

- (1) The Paleoproterozoic Birimian and Tarkwaian terrane of the West African Craton in Ghana. This diverse geologic terrane is about 300 km from Accra. Participants will traverse a geological cross section of the southern portion of the Paleoproterozoic Ashanti belt, mainly along the coastlines of Tarkwa, Axim, Butre, and Dixcove. Specific mines within the field radius will be visited.

**Tourism:** Nzulezu stilt village- nominated in 2000 as a UNESCO World Heritage Site, this unique village can be found near the coast at the westernmost side of Ghana, near the border with Cote d'Ivoire. The village is essentially a long pier (called Main Street) built on stilts above a lagoon. Local legend suggests the village was built by a group of people from Oulata, a city in the ancient Ghana Empire and in present day Mauritania, who settled here from following a snail.

<https://www.easytrackghana.com/tour-ghana-nzulezu.php>

- (2) The Phanerozoic Sekondian sedimentary formations in Ghana (Takoradi and its environs).

**Tourism:** scores of beaches and the Takoradi Port

## List and route of field trip

Field trips	Routes	Coordinators
<b>Precambrian Formations:</b> Paleoproterozoic Ashanti belt (Both Birimian and Tarkwaian rocks)	<b>Geo-cross section:</b> outcrops will be observed in Tarkwa, Butre, Busia, Dixcove and there will be mine visit <b>Tourism:</b> Nzulezu Stilt Village	Pr. Johnson Manu, Pr. Bruce Banoeng-Yakubo
<b>Phanerozoic Formations:</b> Phanerozoic Sekondian sedimentary formations in Ghana	Elmina, Takoradi and its environs. <b>Tourism:</b> Various beaches along the coast	Pr. David Atta-Peters, Pr. Daniel Asiedu

The number of places is limited to 15 participants for each field trip, based on a first come, first served.

## SPONSORS

The organizers are willing to receive sponsorship of specific events for the Colloquium. This will include the technical sessions, workshops, conference materials, field trips, etc.

## LIST OF HOTELS

(Book 2 or 3 nights according to your arrival date: Dec. 3<sup>rd</sup> to 5<sup>th</sup>). All the hotels are within 10-30 minutes from the conference centre

### Off the University Campus

HOTEL NAMES	SINGLE (US\$)	DOUBLE (US\$)	TWIN (US\$)
TRIBECA HOTEL	40 (standard)	40-160 (standard)	
AMPOMAAH HOTEL		59	81
M SUITES HOTEL	77 (standard)		92-100 (standard)/112-120 (superior)
EMPIRE STATE HOTEL		250-275 (superior)/330-363 (empire)	
GOLDEN KEY HOTEL		90 (standard)	
EASTGATE HOTEL		76 (standard)	82 (executive)
MIKLIN HOTEL		100 (executive)	100
AH HOTEL AND CONFERENCE	180	150 (standard)	180 (standard)
MJ GRAND HOTEL	180 (standard)/200 (deluxe)		220
SONANT COURT HOTEL		150 (deluxe)	
CRYSTAL ROCK HOTEL		21 (deluxe)	
ELLKING HOTEL		145 (deluxe)/190 (executive)	
OAK PLAZA HOTEL, EAST AIRPORT	165-175 (standard)/205-215 (deluxe)		
MENSVIC GRAND HOTEL	209 (standard)	215 (standard)	245 (standard)/252
TOMREIK HOTEL	210 (deluxe)/230 (executive)	220 (deluxe)	190/200 (standard)
OAK PLAZA HOTEL, EAST LEGON		108-120 (standard)/ 306 /339(deluxe)	
DOUBLE TREE HOTEL, GHANA			57 (Grand)
KOBY'S LODGE AND APARTMENT	55 (city)		

BHARRIDAN ROYAL HOTEL	152 (standard)/253 (royal)/253 (deluxe)		
AG HOTELS AND SUITES	91(standard)		
RUBY KAY HOTEL		72 (standard)/ 75 (deluxe)/87 (executive)	
MAGNOLIA LODGE		60 (classic)/ 61 (deluxe)	
THE AFRICAN REGENT HOTEL		283 (executive)	
THE TULIP BY AVE MARIA	202 (deluxe)	182 (standard)/ 222 (superior)	182 (standard)
KINGSBRIDGE ROYALE HOTEL		100 (standard)	180 (deluxe)
PEKAN HOTEL		43-48 (standard)	
PALISADES GUEST HOUSE	94 (superior)		
ROBINHOODINN		114/129 (standard)	131/ 147(standard)
EAST AIRPORT GUESTHOUSE	65-75 (standard)/ 100-105 (executive)	75-80	
THE HIGHBRIDGE GUEST LODGE			
AIRPORT WEST HOTEL	143 (deluxe)/ 171 (executive)	192 (executive)	152/ 183 (deluxe)
THE CABIN HOTEL	127 (deluxe)		
LAVENDER LODGE HOTEL	101-112 (deluxe)	95-105 (deluxe)	
BONSUKODA LODGE		39 (standard)/ 44 (executive)	
QUEST LODGE		36 - 59 (deluxe)	
EARL HEIGHTS SUITES HOTEL			
HOTEL GREEN	59-67 (standard)	79 (deluxe)	

#### On campus/Conference venue

IN \$ AS AT 28TH OCT. 2019	SINGLE (US\$)	DOUBLE (US\$)	SUITES (US\$)	TWIN (US\$)	BUNGALOW (US\$)
UNIVERSITY GUEST HOUSE	60/ 80(flat)	70/ 90 (flat)			175
YIRI LODGE	40-60	80	100	80	

#### VISA

For participants needing a visa to enter Ghana, they should first register and send their abstract using the IGCP638 website. More information will be given to get an invitation from the secretariat at the [University of Ghana](#)

#### PUBLICATION

A special volume will be published

Deadline for submitting articles or expanded abstracts [6-10 pages including figures] (« proceedings ») for the special issue of a *Springer journal*: **December 15<sup>th</sup>, 2022 !** information will be posted soon on the website.

**PARTICIPANT FLIGHT PLAN**  
(Participants from abroad)

Name – SURNAME / E-mail

Institution

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Date, time of arrival in Ghana and Airline Company

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Date, time of departure from Ghana and Airline Company

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Hotel (or other place) during your stay in Ghana

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Your participation

- |                                   |                          |                                  |                          |
|-----------------------------------|--------------------------|----------------------------------|--------------------------|
| *Colloquium and 4-days field trip | <input type="checkbox"/> | *Colloquium and 1-day field trip | <input type="checkbox"/> |
| *Colloquium only                  | <input type="checkbox"/> |                                  |                          |
| *4-days field trip only           | <input type="checkbox"/> | *1-day field trip only           | <input type="checkbox"/> |

**IMPORTANT!**

Please copy the E-mail addresses below and paste them into your E-mail box. Then send this PARTICIPANT FLIGHT PLAN after filling it.

[igcp638@univ-rennes1.fr](mailto:igcp638@univ-rennes1.fr) [princempnsh@gmail.com](mailto:princempnsh@gmail.com) [pamponsah@ug.edu.gh](mailto:pamponsah@ug.edu.gh)