



ParisTech



Under the aegis of ParisTech, I am pleased to announce the online scientific workshop on "Geosciences" on **Wednesday 26th May 2021** between **UMaT** and **Research Department of MINES-ParisTech**.



UMAT – MAIN CAMPUS IN TARKWA

Earth Sciences and Environment

○ Research and training at MINES ParisTech

117
faculty
members

Main research topics:

- Geosciences:
 - Geology
 - Geophysics
 - Geostatistics
 - Water resources
 - Civil and mining Eng. Drilling - Slope stability

Research center and groups
Centre for Geosciences ([GEOSCIENCES](#))

- Soil, rock analysis after sampling in field
- Branches for mechanical behavior of rocks
- Drill bit design and optimization
- Underground gas and oil storages

4

MAIN TOPICS IN GEOSCIENCES RESEARCH DEPARTMENT OF MINES PARISTECH

Participants are teachers and researchers from the University and from our School. PhD candidates present their work too and master students can attend the meeting.

Speakers from Ghana:

University of Mines and Technology (UMaT), Tarkwa. Ghana

<https://www.umat.edu.gh/>

Assoc Prof Mrs **Patricia Beatrice Mireku-Gyimah**, Dean, Office of International programmes

The Head of Dept Petroleum Geosciences and Engineering is Dr Mr **Richard Amorin**

The Head of Department of Geology/Geological Sciences, Assoc Prof Mr **Anthony Ewusi**

Lecturer and University Training Coordinator Dr **George M. Tetteh**

Technical Instructor (PhD candidate) Mr **Emmanuel D. Sunkari**

Lecturer (PhD candidate) Mr **Jamel Seidu**

PhD Candidate Mr **Ebenezer Ansah &** PhD candidate Mr **Rabiatu Abubakar**

Speakers from France:

Mines-ParisTech (Centre de Géosciences), Fontainebleau. France

<https://www.geosciences.minesparis.psl.eu/en/home/>

The Head of Geosciences and Engineering Dept is Prof **Vincent Lagneau**

Dr **Isabelle Thenevin** in charge of Public relations

The Head Post master degree mineral resources industry & society (MIRIS) Dr **Jean-Alain Fleurisson**

Post-Master trainees: Mrs **Fanta Kaba** Mr **Constant Konan** Mr **Armand Koudou**

The Head of Geomechanics Prof **Hedi Sellami**

Scientist of Geophysics team Prof **Alexandrine Gesret**

The Head of Geostatistics Dr **Xavier Freulon**

PhD Candidate Mrs **Lucia Clarotto**

Program starting at **8:00 AM in Ghana and 10:00 in France**

- Opening Session

Prof Mr **Vincent Lagneau** (France) and Assoc Prof Mrs **Patricia Beatrice Mireku-Gyimah** (Ghana)

(20 minutes)

- Training, vocational training in Paris or online, Mineral industry & territorial dynamics Chair

Dr **Jean-Alain Fleurisson** and trainees Mrs **Fanta Kaba**, Mr **Constant Konan** Mr **Armand Koudou** (20 minutes)

<http://www.industrie-minerale-territoires.fr/index.en.htm>

- Geophysical Techniques for Groundwater Exploration in Ghana, Assoc Prof **Anthony Ewusi** (10 minutes)
- Uncertainty quantification in seismic imaging, Prof Mrs **Alexandrine Gesret** (10 minutes)

Questions – discussions 9:00 AM in Ghana and 11:00 in France (15 minutes)

- Geology, Tectonic Setting and Mineralization Potentials of Ghana, Dr **George M. Tetteh** (10 minutes)
- Geomechanics Team and research projects, Dr **Isabelle Thenevin** (10 minutes)
- Hydrogeochemical Controls and Probabilistic Human Health Risk Assessment of Groundwater Fluoride in Northeastern Ghana, Mr **Emmanuel D. Sunkari** (10 minutes)
- Efficient geostatistical methods for large and heterogeneous datasets, Dr **Xavier Freulon** (10 minutes)
- Exploring the Impacts of Data Partitioning on Groundwater Level Prediction using Artificial Neural Networks, Mr **Jamel Seidu** (10 minutes)
- Integration of Geological, Geophysical and Reservoir Parameters for an enhanced decision Analysis on Sandstone Reservoir – A case study of the Jubilee Field (Deep Tano Basin) Ghana Mr **Ebenezer Ansah** (10 minutes)
- Spatio-temporal prediction by stochastic partial differential equations, Mrs **Lucia Clarotto** (10 minutes)
- Source Rock Evaluation of the Western Basin using Rock-eval Analysis Data and Statistical Methods, Mr **Rabiatu Abubakar** (10 minutes)

Questions – discussions 10:35 AM in Ghana and 12:35 in France (15 minutes)

- Closure of the session, Thanks,
Dr **Florence Lelait**, ParisTech (10 minutes)