GEOSCIENTIFIC KNOWLEDGE AND SKILLS IN AFRICAN GEOLOGICAL SURVEYS

Activity 6. Capacity building and training concept

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Relevance of the Topic

- Need to enhance capacity and role of African national geological surveys
- Strengthen training capacity involving also the **national education** and **training systems**
  - Mining-related activities (i.e. mining exploration, mineral exploitation, small-scale mining, mining-induced hazards)
  - GeoHazards, GeoHeritage, IT infrastructures and GeoScientific Mapping

Objectives & Actions

- Analyse the *interests* and *capacity/gaps* of the **OAGS members** in **various forms of education and training** arising from a questionnaire,
- Analyse the *capacity* of the **EuroGeoSurvey members** to **organize training courses and workshops** (based on the offer of individual work packages of the project),
- Evaluate the respective analyses and formulation of *priorities* for a capacity building programme and propose a **set of training courses** to the **benefit of OAGS**.

Capacity and Gaps from OAGS

CAPACITY

As a general rule, almost all scientific fields and related expertise dealing with the main objectives of the project are present in the capacity of OAGS.

Most of the topics proposed by PanAfGeo have been deemed as relevant in terms of actual capacity by OAGS (e.g. mapping techniques and GIS, geophysics applied to mining exploration, human and natural-induced consequences on the environment due to mining exploitation, geohazards)

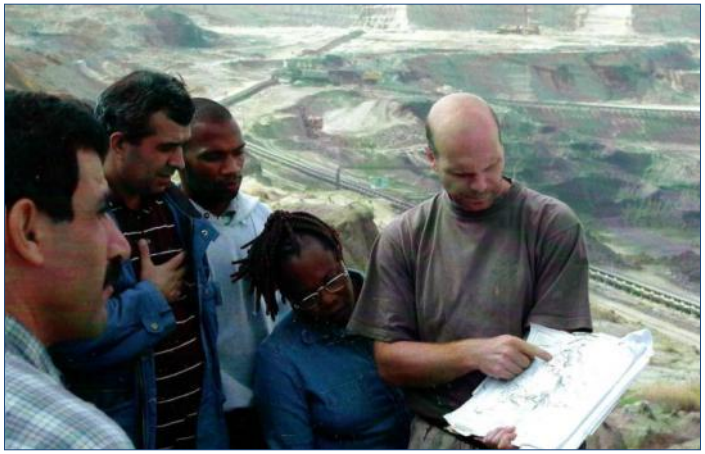
GAPS

- Lack of funds and adequately skilled expertise
- Lack of adequate and modern equipment
- Proper and constant training of the personnel

Training Courses/Capacity Building

MAIN DEMAND AND RECOMMENDATIONS

Training and Capacity Building to be addressed considering the fulfillment of institutional mission/responsibilities.



Attention requested from OAGS to:

- Transfer of standard practices
- Quality of trainers
- Applicability of knowledge
- Quality of materials
- Fulfilment of expectations
- On-the-job training delivery mode
- Case studies on pilot areas in Africa

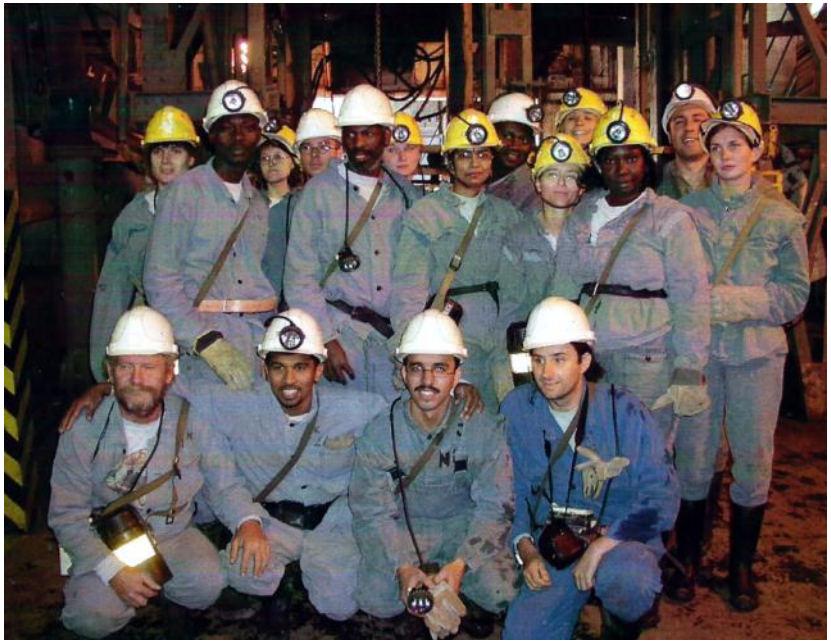
Example of Training courses

Training courses as a part of the fieldwork within Activities 3, 4 and 5

Training courses organized in Zambia and Namibia as part of development and cooperation projects

Example of Training courses

Training Course in Methods of Geochemical Exploration and their Environmental Applications (Czech Republic)



Duration of the course: 10-14 days
Number of participants: 15-20 per course
Lecturers from Czech Republic and invited lectures from PGI-NRI, GTK, NGR

Example of Training courses

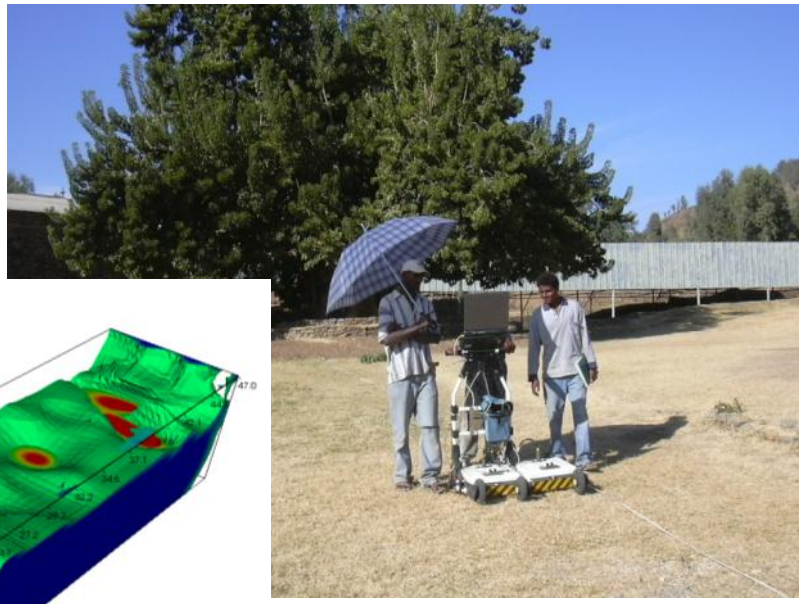
Training Course in Methods of Geochemical Exploration and their Environmental Applications (Czech Republic)

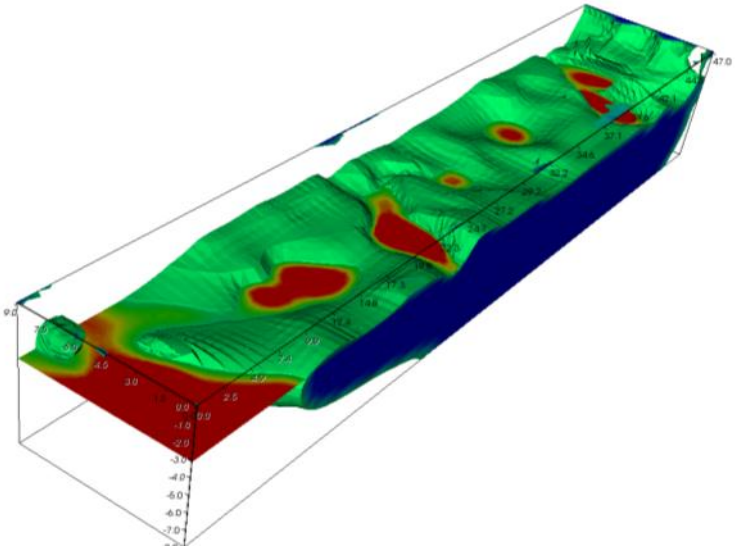
TRAINING COURSE THEMES:

(1) Introduction to geochemical exploration methods,
(2) Principles of environmental geochemistry,
(3) Principles of analytical methods,
(4) Stream sediment survey and its environmental applications,
(5) Biogeochemical survey with environmental applications,
(6) Hydrogeochemical survey with with environmental applications,
(7) Radon risk assessment,
(8) Computer modeling in exploration and environmental geochemistry,
(9) Risk assessment in mining districts,
(10) The best available remediation techniques,
(11) Legislation related to environmental issues

Example of Training courses

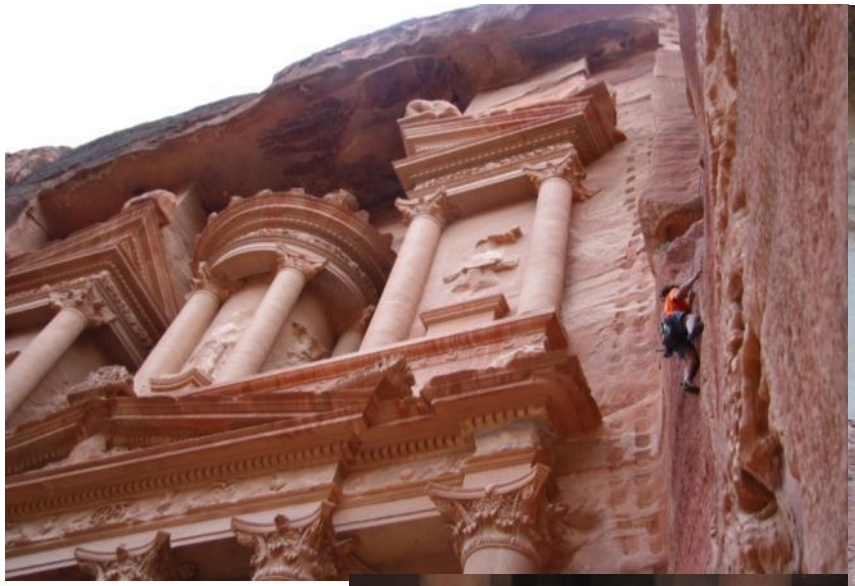
On-the-job training in Geophysical Investigation for the re-erection of the Roma Stela in Aksum (Ethiopia)

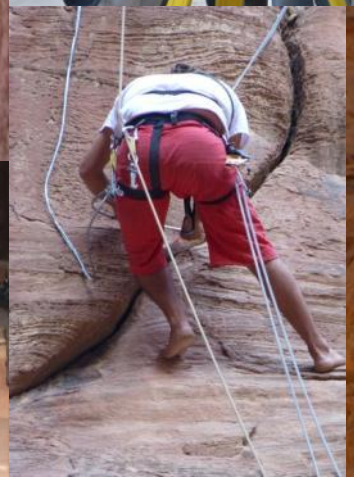




Example of Training courses

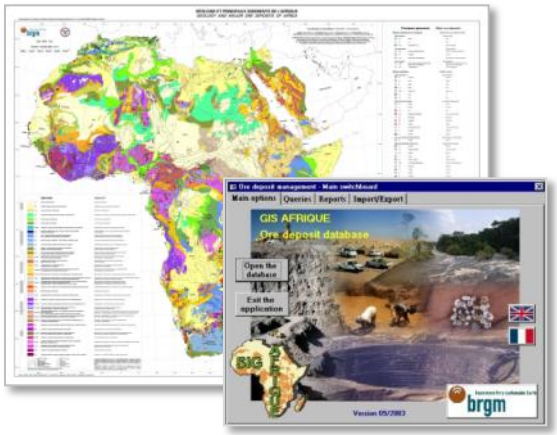
On-the-job training in installation of monitoring systems for rock deformation analysis of the Siq of Petra (Jordan) - UNESCO



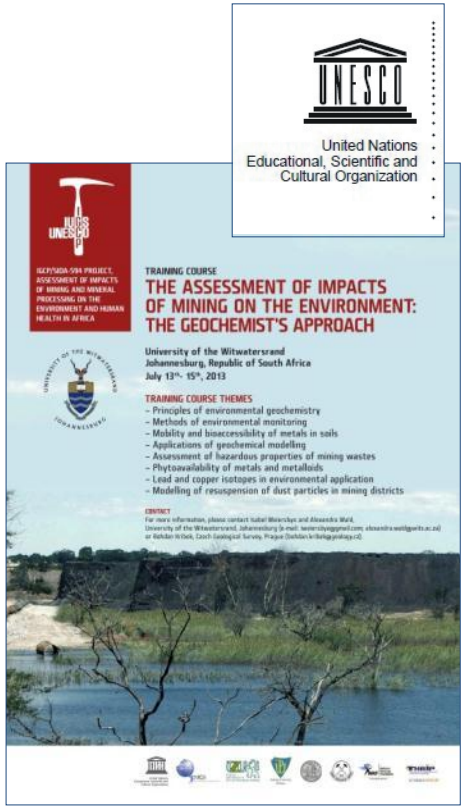

Example of Training courses

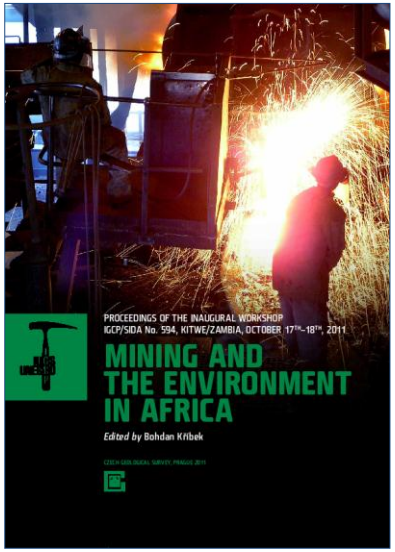
On-the-job training in geoscientific database management (geology, mineral resources, hydrogeology, bibliography): SIGAfrique network, BRGM



WORKSHOPS

Workshops or special sessions organized in the framework of international conferences together with OAGS, GSAf, UNESCO, IUGS, IGCP





THANK YOU FOR YOUR ATTENTION!

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