

Personal Data

Name: Abdalla Gumaa Farwa

Date of birth : July 11, 1948

Place of birth : El Obeid – Kordofan – Sudan

Religion: Islam

Martial Status : Married – have 9 children

Speaks and writes Arabic, English and French

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Faculty of Technological and Developmental Studies ‘Tel :780604-792731 , Home: 265995
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Department of Geology – Faculty of Science – University of Khartoum – P O * Box 321

Academic and Administrative Duties at the University of Khartoum

Examination officer- Department of Geology **1984 -1987**

Examination officer- Department of Geology **1989 -1998**

Managing Editor, Sudan Journal of Science **1988 -1997**

Head, Department of Geology U of K **1994-1998**

Dean Faculty of Science, University of Khartoum **1998-2001**

Director – General of Khartoum University Press **April- Nov, 2001**

Dean, Faculty of Technological and Developmental Studies,
University of Khartoum.

Academic geophysical surveys and concluded research programs

Groundwater investigations in Abu Gubeiha village (detailed gravity and vertical electrical sounding) –southern Kordofan	1983
Groundwater and economic ores investigations in Derudeib (resistivity and detailed gravity)- Red sea Hilss region	
The search of groundwater in the basement (detailed gravity and vertical resistivity sounding) Sodiri – Umm Bader region in Northen Kordofan	
Regional detailed gravity studies, vertical resistivity sounding measurement and seismic refraction in sabloka and East Nile region.	1989-1995.
Groundwater investigations in Butana and Jebel Aulia regions (Regional gravity surveys and resistivity sounding) ..	1996-1997
Groundwater investigations in Gedaref – vertical sounding and gravity survey (Graduation projects- 5th (Honours) Geology ,University of Khartoum.)	2001
Groundwater investigations in Abu Deleig area – vertical sounding and gravity survey (Graduation projects- 5th (Honours) Geology ,University of Khartoum)	2002
Vertical electrical sounding surveys in Gash Delta – Kassala Town (Graduation projects- 5th (Honours) Geology ,University of Khartoum)	
Vertical electrical sounding and detailed gravity surveys in Um Marahik zone, Sabaloka Igneous Complex (Graduation projects- 5th (Honours) Geology ,University of Khartoum)	
Regional mapping and vertical electrical sounding measurement at Musawarat area – Shendi (Graduation projects – 5th (Honours) Geology ,University of Khartoum	

Supervision

❖ M.Sc. Co – Supervision

Mutasim Adam Mohamed Ez Eldin (2000): Engineering and Geophysical Evaluation of Soil and Rockmass Condition for Proposed Hydroelectric Power Station and Bridge at Jebel Aulia and Sennar – Sudan . M.SC. Thesis, University of Khartoum. 14

Amal Salaman Saad (2001): Geology and structure of the northern periphery of Khartoum Basin – Sudan , using remote sensing technique and gravity method M.SC. Thesis, University of Khartoum.

❖ M.Sc. Supervision

El Mosalami Yousif Fadlalla (1995): A geological / geophysical investigation of groundwater problems in Khartoum Province and Northern Gezira, (Central Sudan) M.Sc. Thesis, University of Khartoum.

Ahmed Osman Babiker (1996): Investigation of Geology and sub-surface structures of the Butana Area (East Blue Nile) using regional gravity and vertical electrical sounding measurements. M.Sc. Thesis, University of Khartoum.

Gamal Abdalla Eltom (1996): An interpretation of gravity and seismic data of Tokar Delta (Sudan) M.Sc. Thesis , University of Khartoum.

Ibrahim Abdu Mohammed (1997) of Geology and structures of the area west of the white Nile as interpreted from regional gravity measurement M.Sc Thesis , University of Khartoum.

Muna Ghaboush ElDawie (1997): Gravity and Vertical Electrical sounding investigation in the area of Khartoum State east of the River Nile. M.Sc Thesis , University of Khartoum.

Naila Mohammed Osman (1998): Analysis and interpretation of gravity data of the area west of the River Niles between latitudes 15 and 17 . M.Sc Thesis, University of Khartoum.

Abbas Musa Yagoub (2000): Seismic investigation of the depositional sequences in the Southern Sudanese Red Sea. M.Sc Thesis , University of Sudan for Science and Technology.

Sami Faysal Abdel Fattah (2000): Processing and interpretation of gravity data from southern Sudanese Red Sea. M.Sc Thesis , University of Sudan for Science.

Mohamed Ahmed El hadi (2001): A subsurface investigation in southern Gezira by vertical Electrical sounding and Geophysical logging M.Sc. Thesis , University of Khartoum.

Abu Obeida Siddig Mohamed Ahmed (2005), A Geophysical and Hydrogeological study of Basement Aquifer of Kurmuk region, SE. Sudan. M.Sc. Thesis, University of Khartoum.

Abdi Kadir Hersi Mohamed (2005). A Geophysical investigation for groundwater in Southern Gezira – Central Sudan . MSc. Thesis , University of Khartoum.

Sulieman Ahmed Hamid Fadul (2005). A Geophysical Assessment of Groundwater reservoir characteristics of Shagera Basin, North Darfur State. M. Sc. Thesis Partial fulfilment , Unesco Chair in groundwater, Ummdurman University.

Ishag Babiker Osman (2007). Electrical Investigation for Groundwater Bearing Sediments in River Gash Basin- Kalahot,

Kassala State. M. Sc. Thesis Partial fulfilment , Unesco Chair in groundwater, Ummdurman University.

❖ **Ph.D. – Co-Supervision**

El Mosalami Yousif Fadalla (2003): Estimation of ground water resources of the Blue Nile Basin. PhD thesis, University of Khartoum.

Ministerial and scientific committees

Head of Ministerial Committee in charge of the supervision of the delivery of Gebeit Mines to the General Geological Authority of Sudan (1983). A report was submitted.

Head of Ministerial Committee assigned for the investigation of the role of geoscientists in higher education. A report is submitted to the Minister of higher Education (1997).

Head of Scientific Committee for the preparation of the Arabic Glossary of Earth Sciences.

Head, Committee for the preparation of the curricula of the institute of Earth Sciences Technicians – Red Sea University.

Member, Committee for the preparation curricula of the Faculty of Applied sciences of the International University of Africa.

Member, Committee of Engineering and Technical Studies – National Council for Higher Education, Ministry of Higher Education – Sudan.

Member, Committee of Basic and Applied Sciences- National Council for Higher Education, Ministry of Higher Education – Sudan.

Coordinator – Initiator of the Unit of Seismological Research- National Centre for Research, Ministry of Science and Technology– Sudan.

Coordinator and acting – Dean of a proposed Faculty of Petroleum and Groundwater Sciences- West Kordofan University.

Head, committee for the preparation of the curricula of the proposed Department of Geology, Sudan University for Science and Technology (2004/2005)

Part-time Teaching & Academic Assignments

University of Juba (Sudan), Exploration geophysics.	1990-1998
International University of Africa (Khartoum – Sudan) Exploration geophysics and physics of the earth .	1994-2006
M.Sc courses, Geophysical methods – University of Sudan for Science and Technology.	1999-2001
M.Sc courses, Geophysical methods – Unesco Chair for Water – Umdurman University	2000-2004
Geophysical methods, Dept. Mining , Faculty of Engineering & Architecture, University of Khartoum	2003-2007
Geophysical exploration methods at the Faculty of Earth Sciences, University of the Red Sea.	2001-Now
Member of committee for setting the curricula and syllabi of the Faculty of Earth sciences, University of the Red Sea.	1999
Member of committee for setting the curricula and syllabi of the Dept of Geology, University of Umdruman	2001
Member of committee for setting the curricula and syllabi of the Dept of Geology, University of Sudan for Sciences & Techn	

Professional Career

Started as an Assistant Geologist at the Geological research authority of Sudan – Ministry of Energy and Mining.	1973
Appointed as Teaching Assistant at the Dept of Geology, Faculty of Science – University of Khartoum.	1974
M.Sc. Research Student at the Dept. of Geology – University of Khartoum.	1974-1978
On a study course for the preparation of the PhD at the University of Bordeaux- 1 , France.	1979-1983
Appointed as Assistant. Professor at the Dept of Geology – University of Khartoum.	1983-1997
Promoted to Associate Professor at Dept of Geology – University of Khartoum	

Publications and research activities

Abdel Ati. Sadig and Abdalla G. Farwa (1989) A gravity and resistivity investigation of Umm Marahik fault bounded basin, Sudan. Sudan J. of Science V.4, P 39-55.

Abdullatif O. M. and Farwa A. G. (1999). Science Education in Sudan. Journal of African Earth Sciences. V.28/4 pp 5-27.

Mohammed I. A, Wang Jiaying, Liu Tianyou and Farwa A. G. (2002). Sedimentary Basins in Western White Nile, Sudan as indicated by a Gravity Survey. Journal of China University of Geosciences, Vol. 13, No.3, P. 289-296.

Eldawi M. G. and Farwa A. G. (2003). Gravity investigation in the Area East of River Nile (Khartoum State. Journal of China University of Geosciences, Vol. 14, No.2, P. 175-181.

El Mosalami Yousif Fadlallah and Abdalla Gumaa Farwa (2005). Common Groundwater Problems in Khartoum Province and Northern Gezira State, Central Sudan. Sudan Journal of Basic Sciences- Series G. Earth Sciences, Issue No.6. Sudan Institute for Natural Sciences. 5

M.A.M. Ez Eldin, Tang Huiming, Li Changdong and A.G. Farwa (2008). Engineering Geological Assessment of Sandstone Rock from Jebel Aulia New Hydroelectric Power Plant Site, Jebel Aulia Dam, Sudan. Journal of Engineering and Applied Sciences 3 (1) 109 -117 2008. Medwell Journals , Faisalabad, Pakistan. 6

M.A.M. Ez Eldin, Tang Huiming, N.H. Bahwi and A.G. Farwa (2007). Geological, Soil and Rock Mass Evaluation for proposed Hydroelectric Power Plant at Sennar Dam, Sudan. Journal of Applied Sciences 7 (22) 3484, 2007. Asian Network for Scientific Information

Qualifications

B.Sc.(Hons) 2 nd class, division one in Science (Geology-Option: Geophysics) at the University of Khartoum.	1973
M.Sc. Geology (Geophysics) at the University of Khartoum.	1978
Subsurface Geology and structure of the Gezira area as deduced from Gravity Measurements.	Title of thesis:
Diplome des Etudes Approfondies (DEA) – dans le domaine geologique et prospection geophysique. University of Bordeaux-1, France.	1980
Doctorat de Troisieme Cycle (en: Geologie et Applications aux Domaines Marins) Titre: Utilisation conjuee des methodes sismiques	1983

(sondage refraction et mesures de vitesse) et des donnees obtenues a l'aide d'un penetrometre dynamique.

Teaching activities at Khartoum University and other institutions : 1983 – 2003

Teaches exploration geophysics for higher classes in the Hons. Geology courses including gravity – magnetics, resistivity, electromagnetic and seismics.

Teaches also the following courses for intermediate level: undergraduates maps and structure, physics of earth introduction to rock mechanics.

Design and execution of geophysical training excursion for the final Honours Classes. Supervision of the field work, analysis and interpretation of the field data till the presentation of results. The methods commonly applied are: regional gravity, detailed gravity, vertical electrical sounding and ground magnetics all associated with simple surveying (chaining and leveling) procedures.