

## An elaborate description

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## Career History and achievements

**Discovered Platinum in Egyptian Rocks for the first time** – while attending a conference in Canada, asked Prof. David Watkinson to analyze at the Geology Dept. University of Ottawa by their Electron Microprobe Egyptian chromite samples and there she had found platinum in chromites under the microscope (1990)

**Awarded** a prize for presenting the best paper on platinum at the Annual Meeting of the Geological Society of Egypt (1995)

**Her name was included in “WHO is WHO”** in Science and Engineering, 4<sup>th</sup> Edition, page 315 as a scientist of outstanding achievements (1998-1999)

This was a real incentive for her to succeed in getting fund from the Ministry of International Cooperation for Assessing the Economic Potentiality of Platinum in the Egyptian Rocks where she was the **principal investigator** ([www.platinum.aun.edu.eg](http://www.platinum.aun.edu.eg)) (March 1996- July 1997)

**Consultant** for a Mining Company - giving practical advice to young geologists, interpreting data and guide them to different quarries (May 1997 till 2011)

**Project manager** for “The Sustainable Improvement in the Quality of living of the Ababda Tribes, Eastern Desert, Egypt” [www.ababda.aun.edu.eg](http://www.ababda.aun.edu.eg) funded by Danida – in this project she had saved the life of 22000 inhabitants from hunger, thirst and diseases and provided them with solar energy besides a sustainable well of potable water complying to the WHO measures where water was pumped by photovoltaics from 125 meter deep to the surface , led environmental and medical campaigns, upgraded the capacity buildings of their NGO, tracked a road 40 km and created jobs for this marginalized community in the Eastern Desert of Egypt ( August 2002 to June 2005)

**Project Manager** for "Upgrading Teaching Quality, Lab Facilities and Capacity Building of the Technical & Secretary Staff of the Geology Department" –funded by the World Bank ([www.geologyupgrading.aun.edu.eg](http://www.geologyupgrading.aun.edu.eg)) in this project she had renewed the infrastructure of six labs, prepared all taught courses at the department of Geology as powerpoint presentation for the staff members , upgraded the capacity building of the technical and secretary staff of the geology department (September 2004 to August 2006)

**Project Manager** for "The Evaluation of Uranium in some Egyptian Rocks for Electric Nuclear Power Generation " <http://www.aun.edu.eg/projects/uranium/> funded by the Ministry of Higher Education for applied Research (ASRP 015) – The potentiality of some rocks were assessed for their uranium content using surfacial samples and isotopic research for exploring the promising areas (November 2013 – May 2015).

**Expert** to “The Higher Education Enhancement Projects” by refereeing enhancement proposals for staff members from eighteen Egyptian Universities (2006-2007)

**Head of the Geology Department**, Assiut University (August 2006 till 2011)

**Expert** to “The Rural FISC Project” by introducing rural women to agricultural projects (2008)

**Member of the editorial board** for The International Journal of Mineralogical and Petrological Sciences" published by the Mineralogical Society of Japan and the Japanese Association of Mineralogists, Petrologists and Economic Geologists since (2002 till present)

**Member of the National Council for Environmental Sciences**, Egyptian Academy for Scientific Research from 2009 till present

**Organized** several Conferences, Seminars and Workshops.

**Chairman** of "the 5<sup>th</sup> and 6<sup>th</sup> International conference on the Geology of Africa" October, 2007 and 2009  
**Attended** over 20 different Conferences , symposia and meetings in Egypt and abroad

**Supervised** 8 dissertations (M.Sc. and Ph. D.)

**Published** over 40 scientific papers in National and International Journals

### **Education and Qualifications**

**Professor of Mineralogy** – Geology Department, Assiut University – **Giving lectures** on Ore deposits, Geochemistry, Crystallography, Mineralogy, Environmental Geology, Physical Geology , Fundamentals of Geology , Industrial Rocks and Minerals , Economic Geology , Rock forming Minerals, Geochemical Prospection for undergraduate and post graduate students (October 1996 till present)

**Research Fellow** – University of Heidelberg, Department of Mineralogy, Heidelberg Germany – working with the late **Prof. Gunter Moh** in the field of experimental mineralogy by simulating the natural environment in Lab conditions and the formation of silver and gold sulphides and sulphosalts - the formation of these minerals at very low temperature (< 100 C°) was never expected before (from October 1990 to August 1992)

**Associate Professor** – Geology Department, Assiut University, Assiut, Egypt – **Giving lectures** on geochemistry, ore deposits, hydrogeology, remote sensing, mineralogy (from June 1986 to November 1996)

**Research Fellow** – University of Florida, Nuclear Science Center, USA – worked with **Prof. Henry Van Rinsvelt** (Nuclear Physics Department) doing PIXE (Proton Induced X-ray Emission) Analysing samples collected from 13 phosphate mines from Egypt and doing Nuclear Activation Analysis with **Prof. Genevieve Roessler** (Nuclear Engineering Department) analyzing samples collected from seven chromite mines from the Eastern Desert of Egypt (September 1985 to August 1986)

**Assistant Professor** - Geology Department, Assiut University, Assiut, Egypt– **Giving lectures** on petrochemistry , crystallography, geochemistry to students (from April 1979 to June 1986)

**Ph.D.** from Mining Institute, Saint Petersburg, Russia (October 1978)

**Fellow member** - Russia working on her diploma then on her Candidate at the department of Petrography- Mining Institute- Saint Petersburg - under the supervision of the late **Prof. Sergey Pavlovitch Solovev** (September 1973 to 1978)

**Demonstrator**- Geology Department, Cairo University Mansoura Branch – teaching **practical** courses to students including petrography, mineralogy, crystallography, palaeontology, geophysics, hydrogeology, stratigraphy, subsurface geology (September 1972 to August 1973)

**Bachelor of Science** – Cairo University / "Very Good" grade - the upper 5% in a class of 48 students (June 1972)

### **Relevant Skills**

Attended three advanced training courses on **Remote Sensing & GIS** (Geographic Information Systems) in both the Netherlands (ITC- at Enschede 1986 and 1996), and the United States of America EROS Data Center (Sioux Falls, 1986) and on **Coastal and Marine Pollution Prevention** in Sweden (Gothenberg-2001)

Language Proficiency : Arabic , English, Russian, French, and German  
IT skills, Office Skills