

PERSONAL INFORMATION

Name : Abdeen Mohamed Abd El Halim Attia El Nagar
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E-mail : abdeenelnagar@yahoo.com
Nationality : Egyptian
Date of birth : 27 - 9 -1980
Military status : Exempted
Marital status : Married



WORK EXPERIENCE

- Dates (from – to) : Mar. 2005 – Sept. 2006
- Organization : The Nile Company for Road construction.
- Department : Geologist.
- Occupation : Technical geologist.

- Dates (from – to) : Sept. 2006 – PRESENT
- Organization : Housing and Building National Research Center (HBRC)
- Institute : Raw Building Materials and Processing Technology

- Sector : Building purpose
- Occupation : Researcher, Doctorate.

• **Main activities and responsibilities**

- * **Qualified in geopolymers cement and geopolymer concrete as green cement and eco-building materials.**
- * Primary and revising of Reports delivered for customer for evaluation of raw material of quarries or aggregates, bricks, blocks, tiles, etc..... for construction.
- * Rock classification and field sampling from quarries and crushers of different raw materials (Aggregates, Sand, Gravel, Limestone, Granites, Basalt and Dolomite) and Clays, Bentonite, Kaolinite, Gypsum.
- * Testing physical and mechanical properties of aggregates and gravels as raw materials for building purpose.
- * Petrography examination using Polarizing microscope of natural raw material and preparation of final evaluation

report to determine suitability for the building sector (ASTM C295).

* Synthesis and Preparation of different nano materials for building purpose (Carbon nano tube by CVD method, nano kaolin by firing and mechanical methods).

*Chemical tests for mixing water and aggregates used in building materials (determine chlorides, sulfates, total dissolved salts content and pH test).

*Clays Classification, grain size using sieving analysis.

*Particle size distribution by laser for different materials using wet and dry methods.

*Specific gravity, combined water, Density, Rheological properties, Free swelling test, Atterberg limits (liquid limit, plastic limit and plasticity index) and Plasticity of soils or clays.

*Mineralogical composition of different building raw material using Pan-analytical Philips XRD software instrument and final report layout.

*Alkali silicate and carbonate reaction for different aggregate according to ASTM 1260.

*Soundness of aggregate by use of sodium sulfate or magnesium sulfate.

TRAINING

• Dates (from – to) : 2007

• Organization

Providing training : Horiba Japan (Egypt branch)

•Skills covered : Using Horiba software with the particle size analyzer instrument determination of grain size of material using wet and dry method.

• Dates (from – to) : 2007

• Organization

Providing Training : Egyptian standard Institute for standardization.

• Subjects

: - Introduction course on ISO 17025.

- Laboratory needs to obtain the ISO certificate.

- Dates (from – to) : 2009
- Subjects : The short course on Innovative building material of the Egypt urban development program.
- Dates (from 3/5May to 3/6 Jun) : 2009
- Subjects : Applications of radioisotopes and radiation protection and radiation safety- in Middle East Radioisotope Center for the Arab Countries.
- Dates (from – to) : 2010
- Subjects : Arc GIS program
- Dates (from 9 to 30 may) : 2013
- Subjects : Refresher course on Eco-building design of the Egypt urban development training program.

Education

- Dates (from – to) : 2000 –2004
- Organization
Providing education: Al Azhar University, Faculty of science, Geology Department.
- Subjects : Bsc. in Geology.
- Dates (from – to) : 2004- 2005
- Organization
Providing education : Al Azhar University, Faculty of Science.
- Subjects : Postgraduate course in Engineering Geology Course for master degree preparation.
- Grade : Very Good
- Dates (from – to) : 2007 - 2011
- Organization
Providing education : Al Azhar University, Faculty of Science,
- Subjects : Master thesis entitled " Applied geological studies on bentonitic shales , El Fayoum District, Egypt. "
- Dates (from – to) : 2012 - 2016
- Organization
Providing education: Al Azhar University, Faculty of Science,
- Subjects : Doctorate philosophy thesis entitled " Applied geological studies on some kaolin deposits and industrial wastes for production of nano geopolymer composites, Egypt."

COMPUTER SKILLS

- Microsoft application passed all modules required for the granting of the international computer driving license (ICDL Certificate).

PERSONAL SKILLS

MOTHER TONGUE ARABIC

OTHER LANGUAGES

ENGLISH :

- Reading skills GOOD
- Writing skills GOOD
- Verbal skills GOOD

TOEFL CERTIFICATE

- Passed the local Test of English as a Foreign Language (TOEFL) paper based test (IBT) (year 2010).

Projects:

- 1- Member of a group project **number (1097)** supported by Egyptians under the title: Application of Nanotechnology for the development of sustainable green building.
- 2- Member of a group project **number (8032)** supported by Egyptians under the title: Production of low cost bearing wall bricks using green geopolymer materials.

Conferences:

Dates (from 29 to 31 Dec) : 2012

Organization : **The National Research Center-Egypt.**

Conference Title : **Application of nanotechnology in industry**

Dates (from 4 to 6 Jun) : 2014

Organization : **The University of Orléans- Orléans - France**

Conference Title : **De la préservation à l'innovation**

Dates (from 16 to 20 March) : 2015

Organization : **El Mansoura University- Egypt.**

Conference Title : **12th international conference on chemistry and its role in development.**

Dates (from 27 to 31 March) : 2015

Organization : **Housing and Building National Research Center,
Russian Izhefsic State Technical University**

Conference Title : **7th international conference on nano technology in
construction.**

Publications:

1- H. M. Khater, B. A. El-Sabbagh, M. Fanny, M. Ezzat1, M. Lottfy and **A. M. El Nagar**, Effect of Nano-Clay on Alkali Activated Water-Cooled Slag Geopolymer, British Journal of Applied Science & Technology, 2013; 3(4): 764-776.

2- Medhat S. El-Mahallawy, Aly M. Sharara, Mahmoud M. Hassaan and **Abdeen M. Abd El Haleem**, The composition and activation aspects of El-Fayoum clays for using as drilling fluid. Has been accepted for publication in the Egyptian Journal of petroleum(EGYJP), 15 January 2013 and will be published in Vol.22 part 3.

3- Mahmoud M. Hassaan, Medhat S. El-Mahllawy, Hesham M. Khater and **Abdeen M. El Nagar**, Synthesis of Geopolymer Composites from Multiple Aluminosilicate Sources Enhanced by Nano-Kaolin Materials, 27 march 2015, Seventh international conference Sharm El Sheikh on nano technology in construction.

4- Mahmoud M. HASSAAN, Hisham M. KHATER, Medhat S. EL-MAHLLAWY, **Abdeen M. EL NAGAR**, Production of geopolymer composites enhanced by nano- kaolin material, Journal of Advanced Ceramics 2015, 4(4): 245–252.

5- H. M. Khater M.Ezzat, **Abdeen M. El Nagar**, Alkali Activated Eco-friendly Metakaolin/Slag Geopolymer Building Bricks, Chemistry and Materials Research, ISSN 2224- 3224, Vol.8 No.1, 2016.

6- H. M. Khater, **Abdeen M. El Nagar**, M. Ezzat, Optimization of Alkali Activated Grog/Ceramic Wastes Geopolymer Bricks, International Journal of Innovative, Januray 2016, Research in Science, Engineering and Technology, Vol. 5, Issue 1.

7- M. Ezzat, H. M. Khater, **Abdeen M. El NAGAR**, Enhanced characteristics of alkali activated slag/ grog geopolymer bricks, International Journal of Scientific & Engineering Research, Volume 7, Issue 2, February- 2016.

8- H. M. Khater, M.Ezzat and **A. M. El Nagar**, Engineering of Low Cost Geopolymer Building Bricks Applied For Various Construction Purposes, International Journal of Civil Engineering and Technology (IJCET) Volume 7, Issue 4, July-August 2016, pp. 81–99, Article ID: IJCET_07_04_007.