

CURRICULUM VITAE

Gamal Saad Abdel Hafez Hassan
Mining Engineering
Faculty of Engineering
King Abdulaziz University, KSA



PERSONAL INFORMATION:

Name: Gamal Saad Abdel Hafez Hassan
Date of birth September 25, 1967
Place of birth El- Qussia, Assiut, Egypt
Nationality: Egyptian.
Field of Work: Mineral Processing

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EXPERTISE AND RESEARCH INTERESTS

- General Area:**
- Mining Engineering
- Area of particular interest:**
- Mineral Processing
 - Crushing & Grinding of Ores
 - Energy consumption in grinding process
 - Ore assay
 - Ore Concentration
 - Supervisor on Mineral processing laboratory
 - Supervisor on Crushing and Grinding laboratory
 - Supervisor on Mine survey laboratory

OTHER EXPERTISE

- Surveying – GPS System
- Surveying – Total station System
- Field Experiments
- Supervisor on Mine survey projects from 1995 to 2005
- Supervisor on senior project from 2005 until now
- Introduce the training expertise(mineral industry)

SCIENTIFIC TRANSCRIPT

- B.Sc.: Mining & Met. Engineering Faculty of Engineering., Assiut Univ., 1990
- M.Sc. " Mineral Processing " Faculty of Engineering., AL Azhar Univ. ,1999
- Ph.D.: " ASSESSMENT OF ENERGY EFFICIENCY IN GRINDINGS PROCESS "Faculty of Engineering. Assiut Univ., 2006

CAREER TRANSCRIPT

- From 1993- 1999 Demonstrator Faculty of Eng., Al Azhar University, Egypt
- From 1999- 2000 Assistant Lecturer, Faculty. of Eng., Al Azhar University, Egypt
- From 2000- 2002 PhD. Study in Germany (Aachen univ).
- From 2002- 2005: Assistant Lecturer , Faculty of Eng., Assiut University, Egypt
- From 2005- 2006: Assitant Prof, Faculty of Eng., Assiut University, Egypt
- From October, 2006 until now, Assitant Prof. Faculty of Eng., King Abdulaziz University, KSA

PARTICIPATION IN INTRNATIONAL CONFERENCES AND SHORT COURCES

a- INTERNATIONAL CONFERENCES

1. The Fourth International Mining ,Metallurgical and Petroleum Conference , Assiut University., Assiut, Egypt, 1995
2. The Sixth International Mining, Metallurgical and Petroleum Conference, Cairo University. Cairo, Egypt, 1999
3. The Seventh International Mining ,Metallurgical and Petroleum Conference , Assiut University., Assiut, Egypt, 2001
4. The Eighth International Mining ,Metallurgical and Petroleum Conference , Suez University., Suez, Egypt, 2003
5. The Ninth International Mining, Metallurgical and Petroleum Conference, Cairo University. Cairo, Egypt, 2005

NATIONAL & INTERNATIONAL AFFILIATIONS:

- 1- Member of Syndicate of Engineering Professions, Cairo, Egypt.
- 2- Member of Egyptian Society of Engineer, Cairo.
- 3- Member of accreditation unit, Assiut university, Egypt 2005-2006.
- 4- A member of " Consulting Centre of Faculty of Engineering, Assiut University".
- 5- Member of Geological Saudi Society of , King Abdulaziz University, KSA.

Funded Projects:

Participated in research projects for beneficiation and economic evaluation of some minerals resources for different applications. Some of these projects are listed:

- 1- Evaluation Of EL Maghara Coal By Physical And Mechanical Techniques , Final Report Submitted In 1995
- 2- Evaluation Of EL Nasr Phosphate Company By Consultant Academics: Scientific Report 1996
- 3- Evaluation of red Sea R Phosphate Company By Consultant Academics: Scientific Report 1997
- 4- Continues Monitoring of Ground Vibration Induced From Blasting at Cement Companies Quarries and its effect on buildings.
- 5- Measurements of Noise at *CEMEX* cement factory, Assiut, march, Egypt, 2003.
- 6- Mine Surveying works to plan new Nag Hammady city, Qena, Egypt, 2003
- 7- "Using tailing of Aswan phosphate ore in brick industry , 2004".
- 8- Mine Surveying works to plan Marsa Alam city, Red Sea, Egypt, 2004
- 9- Stabilization of sand dune in KSA by using Bentonite Kholise, , funded by **KACST-GDRG**, KSA 2007-2008
- 10- Study for evaluation of mechanical properties of al Souk area in Maaden company KSA 2010

Lectures and courses given to industrial companies:

"Water Quality and Industrial Pollution" A lecture given to different groups of engineers and technicians at *CEMEX* cement factory, Assiut, February, and March 2006.

"Treatment of Industrial Solid Wastes" A lecture given to a group of engineers and technicians at Edfu Sugar factory, Edfu, Aswan, Egypt, 5 November 2004.

"Technologies for processing of ores to suit different industries" Professional short course given to different groups of engineers at deanship of community services and continuing education , King Abdulaziz University, KSA February, 23-28, 2008.

“Technologies FOR ORE RESERVE ESTIMATIONS" Professional short coarse given to different groups of engineers at deanship of community services and continuing education , King Abdulaziz University, KSA February, , 2010.

“Technologies for FESIABILITY STUDIES IN MINING SECTORS" Professional short coarse given to different groups of engineers at deanship of community services and continuing education , King Abdulaziz University, KSA Abril 2011.

PUBLICATIONS

a - Refereed articles in journals

- **Abdel Hafez, G. S.; Taha, A. T. and Moharram, M.R."** *EFFECT OF AGITATION SPEED AND TIME ON COAL DEGREDATION AT DIFFERENT SOLID CONCENTRATION " 6th Int. Mining, Met. And Petrol. Conference, Cairo Univ. Egypt, Feb, 20-24 , pp, 28-39, 1999.*
- **Abdel Hafez, G. S.; Taha, A. T. and Moharram, M.R."** *EFFECT OF PUMPING CYCLE AND PIPELINE LENGTH / DIAMETER ON PARTICLE DEGRADATION DURING COAL SLURRY TRANSPORTATIONDEGREDATION " Journal of petroleum and mining (JPME), Faculty of Eng. Suez Univ., Egypt vol.3, No. 1 June 200, pp 103-116, 2000.*
- **Abdel Hafez, G. S., , M. H Abu Ali.. and A M.E. Rizk."** *ENERGY CONSUMPTIONIN THE PROCESS OF COMMINATION: A REVIEW " 9th Int. Mining, Met. And Petrol. Conference, Cairo Univ. Egypt, March, 22-24 ,, 2005*
- **Abdel Hafez, G. S., and M. H Abu Ali "** *IMPACT CRUSHING OF MULTI – PARTICLE LAYERS" Journal of Engineering Sciences, (JES), Assiut Univ., Egypt Vol.31, No. 4 , pp 973-984, 2003.*
- **Abdel Hafez, G. S., , M. H Abu Ali.. and A M.E. Rizk."** *ASSESSMENT OF EFFICIENCY OF ENERGY CONSUMPTION IN BINARY MIXTURE GRINDINGS" Journal of Engineering Sciences, (JES), Assiut Univ., Egypt Vol.33, No. 6 , pp 2281-2296, Nov. 2005.*

- Hussin A.M. Ahmed, Mohamed-noor N. Almaghrbi, **Abdel Hafeez G. S.**, “Assessment Of Energy In Ternary Mixture Grinding Of Cement Raw Materials” *Journal of the in Polish Mineral Engineering Society journal*, January, 2007.
- **Abdel Hafeez G. S.**, Comparison Between Bottom and Side Injection of Bentonite Slurry in Treatment of Sand Dunes *Journal of Engineering Sciences, (JES), Assiut Univ., Egypt Vol.38, No. 1, January. 2010.*
- M Aboushook, Mohamed-noor N. Almaghrbi, **Abdel Hafeez, G. S.** " Patient on the Stabilization of sand dune in KSA by using Bentonite Kholise, , funded by **KACST-GDRG, KSA 2010**
- **Abdel Hafeez G. S.**, “CORRELATION BETWEEN WORK INDEX AND MECHANICAL PROPERTIES OF SOME SAUDI ORES” ,*Journal of Material Testing Vol. 54, 2 (2012), pp 108- 112*

Abdel Hafeez G. S., “Evaluation and Optimization of Operating Parameters affecting Davis Tube Magnetic Tester by Using 2nd Factorial Design” , *Journal of Material Testing Vol. 54, 6 (2012), pp 437- 443*

- M Aboushook, Mohamed-noor N. Almaghrbi, Abbas Fadol, and **Abdel Hafeez, G. S.** “Different methods for stabilisation of sand dunes using calcium bentonite” *Int. J. Environmental Engineering Vol.4 Nos ½ 2012, pp 79-91*

Salah, A. Badr, and **G. S Abdel Hafeez,** “Numerical Modeling of Macro-Scale Brittle Rock Crushing during Impacts *Journal of Engineering Sciences, (JES), Assiut Univ., Egypt accepted Nov 2012*

- **Authority of Book Title: Crushing And Grinding Of Ores**

Deanership of Scientific research, King Abdulaziz University, Jeddah, Saudi Arabia Email: gamalhaffez@yahoo.com

Abdel Haffez, G. S & Hussin A.M. Ahmed

Mining Engineering Department, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia Email: gamalhaffez@yahoo.com

Authority of Book Title: Ventilation And Drainage In Mining *Deanership of Scientific research, King Abdulaziz University, Jeddah, Saudi Arabia* Email: gamalhaffez@yahoo.com

b- Papers Under Publications

- **AbdelHafeez, G. S.,** Hussin A.M. Ahmed, "Optimum phosphate desliming: an economical impact", International Conference of Mining, Metallurgy and Petroleum, Assuit university, March, 2010.
- **AbdelHafeez, G. S.,** Hussin A.M. Ahmed, "Egyptian phosphate against world phosphate: an upgrading comparative study to determine the gap", International conference of Mining, Metallurgy and Petroleum, Assuit university, March, 2010

Current research interesting

Mineral processing using advanced technology, bioprocessing, magnetic concentration, simulation and modeling in mineral processing, economic and environmental studies in mining projects, ceramic raw materials processing, phosphate and phosphoric acid production. Cement industry- Strategy of Recycling Rocks' and Mining Wastes to Avoid Underground Water and Environmental Pollution in the Kingdom

ورش العمل والندوات العلمية الهامة:

- "تعظيم الاستفادة من الثروة المعدنية بالوطن العربي والتقانات الحديثة في الصناعات المعدنية" – ورشة عمل نظمها اتحاد مجالس البحث العلمي العربية وأكاديمية البحث العلمي والتكنولوجيا ومركز بحوث وتطوير الفلزات – التبين – القاهرة، ١٢-١٤ مارس ٢٠٠٥.

- "المؤتمر العالمي للثروات الطبيعية في الشرق الأوسط وشمال أفريقيا"، مركز المؤتمرات - جامعة القاهرة، ٢٦ فبراير إلى ١ مارس ٢٠٠٥.
- "الملوثات الناجمة عن تكرير البترول" ندوة نظمتها كلية الهندسة بالتعاون مع شركة أسيوط لتكرير البترول ٢٨ مارس ٢٠٠٥.
- "المؤتمر القومي الأول للبحث العلمي" بتنظيم أكاديمية البحث العلمي - مركز القاهرة الدولي للمؤتمرات - مدينة نصر - القاهرة، ٢٨-٢٩ مايو ٢٠٠٥.

• " دورات تدرسة لتنمية قدرات أعضاء هيئة التدريس:

- "آداب وأخلاقيات المهنة" جامعة أسيوط - الفترة من ٢٥ - ٢٧/٧/٢٠٠٣.
- "تنمية مهارات رعاية الشباب" جامعة أسيوط - الفترة من ١ - ٢/١/٢٠٠٥.
- "الإتجاهات الحديثة في التدريس" جامعة أسيوط - الفترة من ٩ - ١٢/٥/٢٠٠٥.
- "متطلبات النشر الإلكتروني" مشروع النشر الإلكتروني بجامعة أسيوط الفترة من ٢٣ - ٢٧/٧/٢٠٠٥.
- "إعداد كتابة البحوث العلمية ونشرها دوليا" جامعة أسيوط - الفترة من ٢٧ - ٢٩/١/٢٠٠٦.
- "التدريس باستخدام التكنولوجيا" جامعة أسيوط - الفترة من ٣ - ٥/٢/٢٠٠٦.
- "المشاركة في وحدة تطوير المعامل - كلية الهندسة - جامعة أسيوط"