

Prof. Dr. Mohamed Gamal El-din Khalifa

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EDUCATION:

Ph.D. Ferrous Metallurgical Speciality, 1983,
Moscow Institute for Steel and Alloys, Moscow, USSR.
M.Sc. Ferrous Metallurgy Speciality, June 1976,
Tabbin Institute For Metallurgical Studies (TIMS), Cairo.
B.Sc. Metallurgical Engineering, 1972,
Faculty of Engineering – Cairo University, Cairo.

Nationality: Egyptian

Birth Date: September 1st 1949

Languages: Arabic (Mother Tongue)
English (Very good writing & speaking)
Russian (Excellent writing & speaking)

Social Status: Married and have two children

Current Position: Director of Tabbin Institute for Metallurgical Studies

2003 to present Director of Tabbin Institute for Metallurgical Studies

1996 – 2003 Prof. & Head of Ferrous Metallurgy Engineering Department, TIMS.

1990 – 1996 Associate Prof. of Ferrous Metallurgy Engineering Department, TIMS.

1983 – 1990 Assistant Prof. of Ferrous Metallurgy Engineering Department, TIMS.

1982 – 1983 Assistant Lecturer of Ferrous Metallurgy Engineering Department, TIMS.

1978 – 1982 Researcher of Ferrous Metallurgy Engineering Department, TIMS.

1972 – 1978 Production Engineer in the Blast Furnace Sector, Egyptian Iron and Steel Company.

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SCIENTIFIC ACTIVITIES:

Courses Devlivered:

- ❖ General Metallurg,
- ❖ Iron Making,
- ❖ Steel Making,
- ❖ Ore Preparation
- ❖ Refractories in Iron & Steel Industry,
- ❖ Engineering thermodynamics,
- ❖ Physical Chemistry,
- ❖ Refreshing courses in the field of Metallurgical Industrieies (Ferrous, Foundary, Furnaces and Refractories Specialities) and Glass Industry.

LIST OF PUBLICATIONS:

- 1- "Energy Optimal Control for Electric Furnace." December 1987, 8th Miami International Conference on Alternative Energy Sources, Volume 2, Miami University Florida & in 1989 in TMS Bulletin No. 53.
- 2- "Influence of Chemical Characteristics on Softening Temperature of Iron Ore Sinter," 3rd Congress of Chemical Engineers 19-21 March, Vol. 14, No. 2.
- 3- "Alkali Control in Blast Furnace at Hadisob." The Second International Conference on Mining and Metallurgical Engineering, Suez Canal University, proceedings Volume II.
- 4- "Effect Of Decreasing Oxygen in Sintering Atmosphere on Alkali Removal." The First Engineering Conference, Al-Azhar University.
- 5- Możliwości Organiczenia Zużycia Koksu i Poprawy Uzysku Manganu z Rud Przy Produkcji Żelazomanganu w Hucie Półki. Polish Journal HUTNI March 1990.
- 6- Substytucja Wapna w Procesie Sezonowania Red. Polish Journal HUTNIK. June 1990.
- 7- "Texture, Phase Composition And Properties of Refractories Produced at Egyptian Iron & Steel Company (EISCO)." International Conference, UNITCR91, Western Germany, Pon.
- 8- "Investigation of Operating Factors Affecting Oxygen Converter Lining Life At EISCO." International conference UNITXR'91. Western Germany, Pon.

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- 9- "Characterization of Refractory Materials Used For The Manufacture of BOF Lining At The Egyptian Iron and Steel company (EISCO)." International conference UNITCR'91. Western Germany, Bonn.
- 10- "Absence Phenomenon in Uphill Powering of 200kg Ingot." First International Conference of Applied Mechanical Engineering. Military Technical College, Cairo - Egypt, May 1992.
- 11- "Concentration and Blending of Egyptian Iron Ores To Improve The Sinter Quality." Accepted at Russian Journal Tpygax. in 19/6/1992.
- 12- "Effect of Additional Heating on Metallurgical Properties of Iron Ore Sinter." Part I, Third International Conference of Faculty of Engineering, Al-Azhar University, Dec. 1993.
- 13- "Effect of Additional Heating on Metallurgical Properties of Iron Ore Sinter. Part II." Third International Conference Of Faculty of Engineering Al-Azhar University, Dec. 1993.
- 14- "Effect Of Basicity On Physico-Chemical Properties Of Baharia Iron Ore Sinter." Journal of the Institute of Engineers, India, May 1994.
- 15- "Refractories in Steel Making Industries." First International Conference of Industrial Application of Clays. June 1995.
- 16- "Effect of Hot Water and Sinter Return Addition on Sintering Process." First international conference on Mineral Treatment at Zakopane, Poland. Nov. 1995.
- 17- "Effect of Hot Water and Sinter Return Addition on The Sintering Process." Fourth International Conference Of Faculty Of Engineering, Al Azhar University. Dec. 1995.

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- 18-"Influence of Some Factors on the Sintering of Baharia Iron Ores." Industrial Reports. Accepted at Associazione Italiane Di Metallurgia.
- 19-"Possibility of Improving Manganese Recovery and Decreasing Coke Consumption During Production of Ferro-manganese in Pakou plant in poland." 1990.
- 20-"A study on Investigation of Sintering Process." Industrial Report. Dec. 1985-Sep. 1986.
- 21-"The Study of Scaffold Formation in B.F." Industial Report. Dec.1985-Sep.1986.
- 22-"Theortical Review on Refractory Material For Oxygen Converter." March 1987.
- 23-"Assessment of The Tar-Bonbde Dolomite Magnesite Refractories at EISCO." Feb. 1988.
- 24-"Temperature and Thermal Conditions in The Rotary." July 1989.
- 25-"Investigation of Operating Factors Affecting Oxygen Converter Lining Life." Aug. 1989.
- 26-"Study The Possibility of Increasing Lining Service Life of Oxygen Converter at EISCO." Dec. 1989.
- 27-"Addendum to the report "The Last Situation of The Servic Lives BOF Lining at EISCO." Industrial Report.
- 28-"The Intensification of The Production of Sintering by Changing The Charging of Raw Materials on Grate." Industrial Report. Poland 1989.

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- 29-"Investigations of The Behaviour of Coke at High Temperature."
- 30-"Production of Foundary Pig Iron." Report II, March, 1991.
- 31-"Scrap Preparation for E.A.F." July 1991.
- 32-"Production of Foundary Pig Iron." Report III, Sep. 1991.
- 33-"Production of Foundary Pig Iron." Report III, Aug. 1992.
- 34-"Study on Teeming of Open Hearth Steel." June 1993.
- 35-"Study of the Improvement Possibility For Quality and Production of Open Hearth." Dec. 1995.
- 36-Abd El-khalek M. H., Mohamed O. A., Boulis S.N., Khalifa M.G., Shalabi M.E.H., "Effect of Basicity on Physico-Chemical Properties of Baharia Iron ore," IE (I) Journal-MM, Vol.75 May pp 43-49, 1994.
- 37-Shalabi M.E.H., Mohamed O.A., El-Khalifa M.G., El-Hussiny N.A., "Effect of Hot Water and Sinter Return Addition on The Sintering Process." I Międzynarodowa Konferencja Przerobki Kopalin, Zakopane 14-17 Listopado, 1995 pp.17-25.
- 38-Shalabi M.E.H., Mohamed O.A., Abd El- Khalek N.A., Khalifa M.G., El-Hussiny N.A., "Influence of Some Factors on The Sintering of Baharia Iron Ore," Gornictwo, V231, 1996, pp 485-498.
- 39-Shalabi M.E.H., El-Hussiny N.A., Khalifa M.G., "Effect of The Amount of Coke Consumption of The Sintering Process of El-Baharia Iron Ore." Gornictwo, Vol. 238, pp. 289-303, 1998.

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- 40-Yousef, S.I., El-Saie A. A., Khalifa, M.G., El-Sarrat, A., "Blending Libyan Iron Ore For The Blast Furnace Requirements." First Mining Conference in Libya, March 1997.
- 41-Sayed, S. A. , Khalifa M.G., El- Faramawy E.S.R., Shalabi M.E.H., "Reductions Kinetic of El-Baharia Iron Ore in a Static Bed." Gospodarka Surowcami Minerany, Vol. 17, Special Issue, 241-245, 2001.
- 42-El-Hussiny N.A., Khalifa M.G., Shalabi M.E.H., The Use of Seed Apricot Charcoal in The Sintering of El-Baharia Iron Ore. The Transaction of the Egyptian Society of Chemical Engineers Vol. 27 No.2. pp.149-168, 2001.
- 43-N.A. El-Hussing, M.G. Khalifa, Shalabi M.E.H., "The Use of Seed Apricat Charcoul in The Sintering of El- Baharia Iron Ore." The Transaction of the Egypton Society of Chemical Engineers, V. 27, N- 2, October 2001, pp 149-168.
- 44-Sayed S.A., Khalifa G.M., El-Faramawy E.S.R., Shalabi M.E.H., "Kinetics of Reduction of Low Manganese Iron Ore by Hydrogen." 1st International Conference on New Trends in Chemistry and Applications, 2002, Egypton Journal of Cheuis tory, V. 45, No 1, 2002 , pp. 47- 66.
- 45-El-Dars F.M.S., Mohamed H.A., Khalifa M.G., Shalabi M.E.H., "Formation of Sodium Chromite From Chromite Ore Concentrate and Soda Ash Briquetting and Factor Affecting its Recovery." 1st International Conference on New Trends in Chemistry and Their Applications 2002 .