CURRICLUM VITA

## PERSONAL DATA

Name: Magdi Fouad Abadir

Present Position: Emeritus Professor

Affiliation: The Chemical Engineering Department – Faculty of Engineering – Cairo University

Field of Specialization: Inorganic Industries (Ceramics)

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Date of Birth: February 24th, 1948

Nationality: Egyptian

## ACADEMIC QUALIFICATIONS

1. B. Sc. In. Chemical Engineering (1969)
2. M.Sc in Chemical Engineering (1972)

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Thesis Title: Studies of some binary non condensed phase diagrams of importance in ceramic industries

1. Ph.D. in. Chemical Engineering (1976)

Thesis Title: Studies of some ternary non condensed phase diagrams of importance in ceramic industries

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#### PROFESSIONAL EXPERIENCE

Name of Employer Duration Position Held

Faculty of Engineering – Cairo University 1969 - 1972 Teaching assistant

1972 – 1976 Assistant lecturer

1976 – 1981 Lecturer

1981 – 1986 Associate professor

1986 to date Professor

##### M.Sc and PH.D SUPERVISED

##### About 70 awarded M. Sc and 30 Ph. D; 4 M. Sc and 7 Ph. D under supervision.

##### TEACHING EXPERIENCE

1. Undergraduate Courses
2. Mechanical Unit Operations
3. Phase Equilibria
4. Inorganic Chemistry
5. Inorganic Industries
6. Postgraduate Courses
7. Computer methods in Statistics
8. Statistical methods in Design of Experiments
9. Ceramic Science
10. B.Sc. PROJECTS SUPERVISED

More than 30 BSc projects supervised. The latest 3 being:

1. The use of cullet in the production of sewer clay pipes (2013)
2. The use of ceramic waste in the production of clay bricks (2014)
3. Production of slaked lime from limestone (2015)

**Patents and Publications**

More than 85 papers mostly in international journals and conferences

Latest five publications:

Aly, S. T., S. K. Amin, E. S. A. Sherbiny, and M. F. Abadir, "[*Kinetics of isothermal oxidation of WC–20Co hot-pressed compacts in air*](http://scholar.cu.edu.eg/?q=magdi/publications/kinetics-isothermal-oxidation-wc%E2%80%9320co-hot-pressed-compacts-air)", *Journal of Thermal Analysis and Calorimetry*, vol. 118, issue 3, pp. 1543-1549, 2014.

Rushdie, H., S. K. Amin, M. M. Ahmed, and M. F. Abadir, "[*Reuse of the product obtained on grinding kiln rollers in the manufacture of ceramic wall tiles*](http://scholar.cu.edu.eg/?q=magdi/publications/reuse-product-obtained-grinding-kiln-rollers-manufacture-ceramic-wall-tiles)", *Ceramics Technical*, vol. 38, pp. 60 - 66, 2014.

Shimy, E. Y. M., S. K. Amin, E. S. A. Sherbiny, and M. F. Abadir, "[*The use of cullet in the manufacture of vitrified clay pipes*](http://scholar.cu.edu.eg/?q=magdi/publications/use-cullet-manufacture-vitrified-clay-pipes)", *Construction and Building materials*, vol. 73, issue December, pp. 453-457, 2014.

Amin, S. K., M. M. Ahmed, E. E. S. K. Sayed, and M. F. Abadir, "*Effect of Silica Content on the Acid Resistance of Enamels*", *Advances in Natural and Applied Sciences*, vol. 7, issue 3, pp. 300 - 306 , 2013.

Naga, S. M., S. H. Kenawy, A. H. S. El-Wahab, M. F. Abadir, and P. Greil,"[*Synthesis and characterization of laminated Si/SiC composites*](http://scholar.cu.edu.eg/?q=magdi/publications/synthesis-and-characterization-laminated-sisic-composites)", *J. Adv. res.*, vol. 4, issue 1, pp. 75 -82, 2013.

Cited twice in the decennial book of who is “Who is Who in Thermal analysis” (Springer) for the most prominent 300 researchers in the field (2005 and 2015)

Cited three times in the decennial book of “Phase Diagrams for Ceramists” (American Ceramic Society) (1989)

###### PROFESSIONAL ACTIVITIES

I have been involved in more than 80 consulting jobs with cement, ceramic and metallurgical factories. I also regularly prepare and execute field training courses in ceramic factories and related industrial facilities.

Latest activities include representing the Egyptian Engineering Syndicate in the board of Jotun Company for paints (January 2014) and joining the Scientific Technical Development Fund (STDF) technical board (September 2014).

**AWARDS**

**Areas of Research:**

1. Kinetics of solid state reactions
2. Rheology of ceramic pastes
3. Phase diagrams in the ceramic industry
4. Preparation and Characterization of Nanoceramics