

CURRICULUM VITA (UPDATED 20 Nov 2012)**MAHMOUD SAMIR ABD EL-MOHSEN EL-WAZERY****M.Sc, B.SC, PH.D**Department of Production Engineering and Mechanical Design,
Faculty of Engineering

Menofia University, Shebin El-Kom, Egypt

03-3313378 (H), 048-2221549 (W), Mob: 01224206392

E-mail: eng_mahmoudsamir@yahoo.com, melwazery@ymail.com

**I. PERSONAL DATA**

Name : Mahmoud Samir Abd El-Mohsen Abraham El-Wazery
 Date and place of birth : September 1, 1978, Egypt
 Nationality : Egyptian
 Marital state : Married and one dependent.
 Address : 20 Elaza street, from 16 street. Elsuof, Alexandria, Egypt
 Languages : Mother Tongue : Arabic
 : English writing : Good
 : Germany (Groud Stuff. Ines)

II. ACADEMIC QUALIFICATIONS:

B.Sc. Faculty Of Engineering, Menofia University, Egypt, May 2002, In The " Production Engineering And Mechanical Design" With An Overall Rate Of Appreciation "Very Good".

M.Sc. Faculty Of Engineering, Menofia University, Egypt, Auguset 2007, In The "Crack Growth in Metal Matrix Composite Under Mixed-Mode Loading".

Ph.D. Faculty Of Engineering, Menofia University, Egypt, Auguset 2012, In The "Processing and mechanical properties of functionally graded materials".

III. SPECIALIZATION:

-Engineering Material in Production Engineering and Mechanical Design Department

IV. WORKING EXPERIENCE:

2004-2007: **DEMONSTRATOR**, Department Production Engineering and Mechanical Design, Faculty of Engineering, Menofia University, Egypt.

2007-2012: **ASSISTANT LECTURER**, Department Production Engineering and Mechanical Design, Faculty of Engineering, Menofia University, Egypt.

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2012-Present: **LECTURER**, Department Production Engineering and Mechanical Design, Faculty of Engineering, Menofia University, Egypt.

V. MEMBERSHIP PROFESSIONAL SOCIETIES:

-Membership in Nakaa Nanotechnology network, Nakaa Biotechnology network and Nakaa Spectroscopy network.

- Member in Quality Assurance and Accreditation Center in faculty of engineering, menofia university.

VI. JOURNALS REVIEW

2012- NOW: Papers Reviewer in international Journal in Advances Ceramic Science and Engineering (ACSE), Hong Kong.

VI. TEACHING UNDERGRADUATE STUDENTS:

Theories of Metal Forming, Mechanical Drawing, Engineering Drawing, Automatic Control, Theories of Elasticity and Plasticity, Machine Element Design, Machine Tool Design, Mechanical Design, Strength of materials, Fracture Mechanics and Failure Analysis, Materials science, Fortran and visual basic Languages and Machining Technology and Metallurgy.

VII. AREAS OF RESEARCH INTEREST:

- Fracture mechanics of Alloys and composites and FGM
- Finite element Modeling (COSMOS, ANSYS, APAQUS)
- Processing of ceramic
- Functionally graded materials (FGM)
- Ceramic metal composite (CMC)
- Metal matrix composite (MMC)

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-Thermal barrier coating (TBC)

VIII. TECHNICAL SKILLS

- Programming Languages: Fortran- Visual Basic.
- Finite Element Softwares: COSMOS/M, ANSYS and ABAQUS
- Programs: Scientific Research Basics - Communication Skills
- Presentation Skills - Thinking Skills
- Auto CAD 2D &3D
- ICDL

IX. PUBLICATIONS:

M.Sc. Thesis, "Crack Growth in Metal Matrix Composite under Mixed-Mode Loading", library of the Faculty of Engineering, Menofia University, EGYPT, (2007).

Ph.D. Thesis "Processing and mechanical properties of functionally graded materials". library of the Faculty of Engineering, Menofia University, EGYPT, (2012).

PUBLISHED PAPERS:

- 1- **Elwazery, M.**, Abo El-Nasr, A., El-Beshtawi, I., and Ayad, M., "Crack growth behavior in 2024- T4 Al alloy under mixed-mode loading." **4 th International Conference on Mechanical Engineering Advanced Technology for Industrial Production**. Assiut University (*MEATIP4*). Assiut, December 12-14, 2006, pp: 243-251.
- 2- **M. S. EL-Wazery**, A. R. EL-Desouky, O. A. Hamed, N. A. Mansour and A. A. Hassan, "Fabrication and Mechanical Properties of ZrO₂/Ni Functionally Graded Materials" **Proceedings of 2nd International Conference in Advanced Materials Research**, ICAMR 2012, Chengdu, China, 7-8 January, 2012,PP: 463-471.

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(And published in **International Journal in Advanced Materials Research**, Vols. 463- 464(2012), PP: 463-471).

- 3- **M. S. EL-Wazery**, A. R. EL-Desouky, O. A. Hamed, "Functionally Graded Materials", **International Conference in Nanotechnology, Biotechnology and Spectroscopy**, Oral Presentation, (ICNBS 2012), March 1-3, 2012, Egypt.
- 4- **M. S. EL-Wazery**, A. R. EL-Desouky, O. A. Hamed, A. A. Hassan and N. A. Mansour, "Electrical and Mechanical performance of Zirconia/Nickel Functionally Graded Materials" **International Conference of Engineering and ICT, (ICEI2012)**, Melaka- Malaysia, 4-6 April, 2012, PP:121-126.

(And published in **Arab Journal of Nuclear Science and Applications**, volume 3(45) 2012,PP: 312-32).

- 5-A. R. EL-Desouky, **M. S. EL-Wazery**, "Mixed Mode Crack Propagation of Zirconia/ Nickel Functionally Graded Materials " *submitted to Material Science and Engineering A*.
- 6-A. R. EL-Desouky, **M. S. EL-Wazery**, " Processing and Characterization of Zirconia/ Nickel Functionally Graded Materials " **Submitted to Published**