**BIOGRAGHY**

**Name**:**Refat El-Shiekh Mohamed El-Zahry.**

**Position:** Professor of Production Engineering Mechanical Engineering Department, Faculty of Engineering ,Assiut University, Assiut. EGYPT.

**Date of Birth:** January, 1 st, 1945

**Marital Status:** Married, Two Children

**Previous Positions**: 1-Assistant Professor, Assiut University (1975 -1980).

2-Associate Professor, Assiut University (1980 -1982).

3-Associate Professor, University of Jordan, Faculty of Engineering and

Technology( 1982 -1986)

4- Associate Professor, Assiut University,(1986-1988)

5- Professor, Assiut University (till now)

**Research Interests:** Machine Tool Dynamics Manufacturing Processes Computer- Aided Manufacturing Economic Analysis of Metal Cutting Processes.

**Course Taught:** Production Engineering Courses (of Various levels). Theory and Application of Metal Cutting CNC Control of Machine Tools- Manufacturing Processes Planning and Factory Layout Computer Aided Designs.

**Conferences Attended:**

1- 15th International Conference on Machine Tool Design and Research, Manchester, England. September, 1975.

2- 1st International Conference on Mechanical Design and Production, Cairo University, Cairo, 1979.

3- 2nd International Conference on Mechanical design and production Cairo University, Cairo, 1982.

4- 3rd International Conference on Mechanical Design and production .Cairo University, Cairo. 1985.

5- 4th International Conference on Mechanical Design and Production, Cairo University, Cairo, 1988.

6- 3rd International Conference on Production Engineering and Design for Development, Ein Shams University, Cairo, 1990.

7- 1st International conference on Mechanical Engineering Advanced Technology for Industrial Production (MEATIP 1), Assiut, 1994.

8- Third International Conference on Applied Mechanics and Mechanical Engineering, Cairo, Militioary Technical College. May 1996.

9- International Conference on Advances in Production Engineering Warsaw University of Technology. Warsaw. May 1998.

10- Second International Conference on Mechanical Engineering Advance Technology for Industrial ,Assiut University, Assiut. 1999.

**List of Publications in the Period (1994 – 2000)**

1- R. M. El-Zahry. R. Sayed and A. Fizzat, " A New Predictive Strategy for Drill Clogging and Flank Wear using Force and Torque Measurements," Proceedings of 1st International Conference on Mechanical Engineering Advanced Technology and Industrial Production, Assiut, 1994. Pp 457-487.

2- R. M. El-Zahry and A. Ezzat, In Process Monitoring of Drill Whirling Using Dynamic Cutting Signals". Proceedings of the 11th International Conference on Computer Aided production Engineering.20 21 September, 1995, ImevhE, London.

3- R. M. El-Zahry. R. El-Sayed and A. Ezzat, "In Process Monitoring of Twist Drill Whirling", Proceedings of the Sixth International Conference on Mechanical Design and Production, Cairo University ,Januray, 1996, pp 225-232.

4- R. M. El-Zahry. R. Sayed and A. Fizzat, "On Line Quality Control Strategy of Hole Roundness Error Due To Drill Whirling Based on Drilling Torque Signal, "Proceedings of the Third International Conference on Applied Mechanics and Mechanical Engineering, Milltary Technical College, Cairo, May 1996, pp 327-338.

5- R. M. El-Zahry. A Nasr and A. Sarhan, "Interrelationships Between Cutting Force Variation and Tool Wear in End Milling", Proceedings of the International Conference on Advances in Production Engineering, Warsaw University of Techology, Warsaw, June, 1998, pp 120-131.

6- R. M. El-Zahry, R. M., El-Mahdy, Y. B. and Abdel-Rahman, H., "Design and Manufacture of Training CNC Bench Type Vertical Milling Machine, "The Second International MEATIP Conference, Assiut University, Assiut, March, 1999.

PUBLICATIONS(2000-TILL NOW):

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| **2001** |  |
| A. Sarhan, R. Sayed, A. A. Nasr, and R. M. El-Zahry, Force Based Model for Automated Surface Roughness Prediction in Slot Milling, 2001 ASME International Design Engineering Technical Conferences and the Computers and Information in Engineering Conference, Pittsburgh, Pennsylvania, DETC2001/DFM-21163, V.3, pp.31-47, September 9 12, 2001. | |
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| **1998** |  |
| A. Sarhan, R. Sayed, A. A. Nasr, and R. M. El-Zahry, Monitoring of Tool Wear in End Milling Using Cutting Force Modeling, Engineering Design Conference 98 (EDC 98), 23-25 June 1998, Brunel University, United kingdom. | |

Ahmed A.D. Sarhan, and R. M. El-Zahry, 2011 "Monitoring of Tool Wear and Surface Roughness in End-Milling for intelligent machining," International Journal of the Physical Sciences Vol. 6 No. (10), pp. 2380 2392, 18 May, 2011 http://www.academicjournals.org/ijps/abstracts/abstracts/abstract2011/18May/Sarhan%20and%20El-Zahry.htm) (*ISI-Cited Publication*)

1. Sarhan, R. Sayed, A. A. Nasr, and R. M. El-Zahry, 2001, "Interrelation Between Cutting Force Variation and Tool Wear in End-Milling", Journal of Materials Processing Technology, Vol.109, No.3, pp 229-235, 15 February 2001, (http://www.sciencedirect.com/science/article/pii/S0924013600008037) (*ISI-Cited Publication*)

**"Implementation of neural network for monitoring and prediction of surface roughness in a virtual end milling process of a CNC vertical milling machine"**

**Hossam M. Abd El-rahman1\*, R. M. El-Zahry2 and Y. B. Mahdy3**

1Sohag University, Sohag, Egypt.

2Mechanical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt.

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