**Mahmoud M. Farag**

**Professor – The American University in Cairo**

**PERSONAL INFORMATION**

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**ACADEMIC RANK**

Professor

**DEGREES**

B.Sc., Mechanical Engineering, Cairo University, Egypt, M.Sc. Metallurgy, and Ph.D. Metallurgy, Sheffield University, England.

**YEARS OF SERVICE AT AUC**

1971 - Present Associate professor and then professor, Mechanical Engineering

1984 – 1985 Founding chair of engineering department, AUC

1992 – 2005 Vice Provost, AUC

1982 – Present Director, Engineering and Science Services, SSE

**OTHER RELATED EXPERIENCE:**

**Academic**:

2006 – 2011 Member of the Departmental Advisory Committee and Member of the Electoral Board of the Department of Mechanical Engineering and Material Science and Engineering, Cyprus University of Technology, Limassol, Cyprus

**Industrial:**

1992 - 1999 Member of the board of directors, El-Nasr Company for Refractories and Ceramics "SORNAGA"

**Consulting:**

2012 Failure analysis of wind turbines, Gamesa Company, Spain

**ADMINISTRATIVE ASSIGNMENT:**

 1983 – Present Director, Engineering and Science Services. We train more than 5000 engineers and scientists each year in a wide variety of technical and project management fields

**RECENT RESEARCH FUNDING GRANTS**

Mahmoud Farag, Co-PI, Low Cost ALM Restoration of Non-Repairable Military Aircraft Parts, Agency: Academy of Scientific Research and Technology (ASRT), Budget: LE 999,685.00, PI: Hanadi Salem*, et. al.,* Dates: 2016 – 18.

Mahmoud Farag, Co-PI, Preparation and characterization of biodegradable and nonbiodegradable Qatari date palm natural fiber reinforced composites, Agency: Qatar Foundation, Budget: LE 248,000, Partners: Qatar University, Dr. Mahdi Said, Dates: 2014 – 2017

Mahmoud Farag, PI, Bioplastics for disposable packaging and catering items, Agency: Academy of Scientific Research and Technology (ASRT), Budget: LE 300,000, Partners: Drs. Mohamed Fawzy Ali (Co-PI) Khalil el Khodary (Co-PI), AUC, 2015- 2017

**PRINCIPAL PUBLICATIONS IN RECENT YEARS:**

1. **Journal Papers:**

M. El Haron, A. Adel, M. Adel, and MM Farag, Insights into the Effect of Moisture Absorption and Fiber Content on the Mechanical Behavior of Starch-Date Palm Fiber Composites", accepted for publication in Starch, 2017.

Hamdy Ibrahim, Mahmoud Farag, Hassan Megahed, Sherif Mehanny , Characteristics of starch-based biodegradable composites reinforcedwith date palm and flax fibers, Carbohydrate Polymers, 2014, Volume 101, Pages 11– 19

Mohamed E. Mitwally and Mahmoud Farag, Effect of cold work on the structure and characteristics of NiTi alloy, Materials Science &Engineering A, 2009, Volume A 519, Pages 155-166.

Farag, M.M., Quantitative methods of materials substitution: application to automotive components, Materials & Design, Volume 29, Issue 2, 2008, Pages 374-380

1. **Books and Book Chapters:**

Farag, M.M., Design and Manufacture of Biodegradable Products from Renewable Resources, Chapter 5, pp 111-131, Handbook of Composites from Renewable Materials, Volume 2: Design and Manufacture, Editors: Vijay Kumar, Manju Kumari Thakur, and Michael R. Kessler, Scrivener Publishing LLC, 2017, ISBN: 978-1-119-22365-8

Sherif Mehanny, Lamis Darwish, Hamdy Ibrahim, Mohamed Tarek El-Wakad and Mahmoud Farag , High-Content Lignocellulosic Fibers Reinforcing StarchBased Biodegradable Composites: Properties and Applications, Chapter 3 in  ["Composites from Renewable and Sustainable Materials"](http://www.intechopen.com/books/composites-from-renewable-and-sustainable-materials), book edited by Matheus Poletto, ISBN 978-953-51-2794-9, Print ISBN 978-953-51-2793-2, Published: November 30, 2016

Pp 45 - 64

Farag, M.M., Materials and Process Selection for Engineering Design, 3rd edition, CRC Press, Taylor and Francis Group, Fl, USA, ISBN 978-1-4665-6409-1, 2014

Amal M. K. Esawi and Mahmoud M. Farag, Polymer Nanotube Composites: Latest Challenges and Applications, in Polymer Nanotube Nanocomposites: Synthesis, Properties and Applications, Second Edition, Vikas Mittal (editor), M M Scrivener Press, MA, USA, 2014.

Esawi, Amal M. K. and Farag, Mahmoud M. “Chapter 15 - Polymer Nanotube Composites: Promises and Current Challenges”, in Polymer Nanotube Nanocomposites: Synthesis, Properties and Applications, Vikas Mittal (editor), M M Scrivener Press, MA, USA, 2010.

Farag, M.M., Quantitative analysis of materials substitution in motor cars: How can light and advanced materials help the industry meet its challenges? Chapter 5in: Automotive Industry: Technical Challenges, design issues and economic global crisis, Editor: Gordon A. Maxwell et al. © 2009 Nova Science Publishers, Inc., ISBN: 987-1-60876-143-2

Farag, M.M., Materials and Process Selection for Engineering Design, CRC Press, Taylor and Francis Group, 2008, Fl, USA, ISBN: 987-1-4200-6308-1

1. **Recent Conference Papers**

L. Darwish, M. M. Emara, M. Farag, and T. El Wakad, Fabrication and Characterization of Starch Matrix – Banana Fibres Biodegradable Composites, 3rd International Conference on Multifunctional, Hybrid and Nanomaterials, 3 – 7 March 2013, Sorrento, Italy

Hamdy Elsayed, Mahmoud Farag, Hassan Megahed and Sherif Mehanny, INFLUENCE OF FLAX FIBERS ON PROPERTIES OF STARCH-BASED COMPOSITES, \*Proceedings of the ASME 2012 International Conference of Mechanical Engineering, IMECHE2012, November 9-5, 2012, Houston, Texas, USA

Sherif Mehanny, Mahmoud Farag, R.M.Rashad and Hamdy Elsayed, FABRICATION AND CHARACTERIZATION OF STARCH BASED BAGASSE FIBER COMPOSITE, Proceedings of the ASME2012 International Conference of Mechanical Engineering, IMECHE2012, November 9-15, 2012, Housten, Texas, USA

**SCIENTIFIC AND PROFESSIONAL SOCIETIES:**

The American Society of Mechanical Engineers (USA),

The Materials Information Society, ASM International (USA),

The Institute of Materials, Minerals & Mining (UK),

The Egyptian Society for Engineers.

**HONORS AND AWARDS:**

Listed in Marquise Who's Who in the World, Who's Who in Science and Engineering, and Who's Who in Finance and Industry.

Recipient of the Egyptian State Award for promotion of Science and the First Order of Merit in Arts and Sciences.

Recipient of the President Distinguished Service Award, AUC, 2014

Recipient of the AUC Distinguished Service Award, AUC, 2013

**RACENT INSTITUTIONAL AND PROFESSIONAL SERVICES**

2016 – Present Member of the steering committee and co-chair of the AUC Middle States accreditation

2015 – Present Member of the University Assessment Committee

2015 Member of the University Task Force on Faculty Compensation

2009 – 2014 Member of the University Senate, Chair of the Senate, member of the executive committee, Chair of the faculty affairs committee

2011 – 2012 Chair of the standing committee on policies and procedures 2011