CURRICULUM VITAE

DR. ENG. TAMER SAMIR MAHMOUD

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PERSONAL INFORMATION

FIRST NAME: TAMER
LAST NAME: MAHMOUD
SUR NAME: SAMIR
GENDER: MALE
DATE OF BIRTH: 24/11/1971
NATIONALITY: EGYPTIAN
MARITAL STATUS: MARRIED

EDUCATION

Saint-Petersburg State Polytechnical University, Saint-Petersburg, Russia
Degree Received/Date: Ph.D. in Mechanical Engineering, 2004.
Thesis Title: Development of New Alloys for Semi-Solid Processing.

Zagazig University – Benha Branch, Faculty of Engineering, Egypt
Degree Received /Date: M. Sc. in Mechanical Engineering (Production), 1999.
Thesis Title: Properties and Creep Behaviour of Extruded AA6063/SiC_p Metal Matrix Composites.

Zagazig University – Benha Branch, Faculty of Engineering, Egypt
Degree Received /Date: B. Sc. in Mechanical Engineering (Production), 1994.

ACADEMIC POSITIONS

King Khalid University – Faculty of Engineering, *Associate Professor*	KSA	2009-2011
Benha University-Faculty of Engineering, *Associate Professor*	Egypt	2008-present
Benha University-Faculty of Engineering, *Assistant Professor*	Egypt	2004-2009
King Khalid University – Faculty of Engineering, *Assistant Professor*	KSA	2007-2008
Benha University-Faculty of Engineering, *Lecturer*	Egypt	1999-2004
Benha University-Faculty of Engineering, *Assistant Lecturer*	Egypt	1994-1999

TEACHING EXPERIENCE

Benha University-Faculty of Engineering, Egypt
Courses: CAD/CAM – Machine Design – Theory of Machines - Materials Science and Engineering – Mechanics of Materials – Engineering Drawing – Mechanical Engineering Drawing –Advance Materials – Materials Selection – Materials Design – Fracture Mechanics – Production Technology – Engineering Tribology.

October 6th University-Faculty of Engineering, Egypt
Courses: Mechanics of Materials – Materials Technology – Product Design – Production Planning and Monitoring.

The High Institute of Engineering - 6th of October City, Egypt
Courses: Engineering Drawing – Operating Systems – Computer Graphics – Software Engineering – Materials Technology – Plant Facility Layout – Kinematics and Dynamics of Machines – Materials Testing Lab.

King Khalid University-Faculty of Engineering, Saudi Arabia
Courses: Engineering Drawing – Production Technology – Mechanical Drawing – Strength of Materials.

The High Institute of Engineering - Arish City, Egypt
Courses: Engineering Drawing – Materials Testing – Engineering Mechanics (statics & Dynamics) – Software Engineering.

Faculty of Industrial Teaching – Helwan University, Egypt
Courses: Introduction to Computer Science.

Technical Institute of Armed Forced, Egypt
Courses: Production Technology.

Misr University of Science and Technology (MUST), Egypt
Courses: Machine Design I – Machine design II – Mechanical Measurements – Finite Element Analysis – Engineering Tribology – Tool & Die Design.

GRADUATION PROJECTS SUPERVISION

- Design & Manufacturing of a Tensile Testing Machine, Benha University, 2013.
- Design & Manufacturing of a Push-Pull Fatigue Testing Machine, Benha University, 2013.
- Friction stir spot welding of aluminum alloys, Benha University, 2012.
- Production of some automotive parts using casting technique, King Khalid University, 2011.
- Friction Stir Welding (FSW) of Al Cast alloys, King Khalid University, 2010.
- Production of Al/Gr FMG MMCs, Benha University, 2009.
- Friction Stir Welding (FSW) of Al Cast alloys, King Khalid University, 2008.
- Friction Stir Processing (FSP) of AA6063 Aluminum Alloy, Benha University, 2007.

- Friction Stir Welding (FSW) of Al-Si alloys, Benha University, 2007.
- Design of Manual Hydraulic Press for Powder Metallurgy (PM) Application, Benha University, 2007.
- Upgrading of Creep and Universal Testing Machines Using Data Acquisition Techniques, Benha University, 2007.
- Friction Stir Welding (FSW) of AA6063 and AA6061 Aluminum Alloys, Benha University, 2006.
- Development of an Image Analyzer Software for Metallurgical Applications, Benha University, 2006.
- Design and Manufacturing of Electric Resistance Furnace, October 6th University, 2005.
- Design and Manufacturing of Centrifugal Casting Machine, October 6th University, 2005.

OBTAINED TRAINING & COURSES

- Standard research project management process, 2011
- Peer Reviewer Online, 2011
- Applying the Quality Matters Rubric Online Courses, 2011
- Project Management Program (PMP), 2009
- Introduction to Computing, 2005.
- Operating Systems, 2005.
- Microsoft Word, 2005.
- Microsoft Excel, 2005.
- Production and Presentations of Teaching Materials, 2005.
- Preparation of University Teacher, 2004.

SKILLS

Language Skills

- Arabic Language (The Native Language)
- English Language (very good).
- Russian Language (very good).
- French Language (fair)

Computer Skills

- SolidWorks Mechanical Design Software.
- SolidEdge Mechanical Design Software.
- AutoCAD Mechanical Drawing Software (2D and 3D).
- Autodesk Inventor.
- Feature CAM.
- MatLab Software.
- Visual Basic, C and C# programming Languages.
- Photoshop and OpenGL.

- Microsoft Office (Word, Excel, Power point).
- Microsoft windows (XP, Vista).
- Several Metallurgical Image Analyzers.

SCIENTIFIC SOCIETIES MEMBERSHIP:

- Member of Egyptian Syndicate of Engineering.
- Member of American Society of Mechanical Engineers (ASME).

AWARDS:

- Selected in "**MARQUIS WHO'S WHO**" encyclopedia which contains biographies of millions of leaders and achievers from around the world and from every significant field of endeavor. Web Site: http://www.marquiswhoswho.com/.
- Selected in "**IBC TOP 100 ENGINEERS 2010**", International Biographical Centre, Cambridge, England.

SCIENTIFIC INTEREST:

- Major Field: Materials Science and Engineering.
- Topics: Metal Matrix Composites (MMCs) – Metal Matrix Nano-Composites (MMNCs) - Polymeric Matrix Composites (PMCs) – Biomaterials - NanoMaterials – Friction Stir Welding (FSW) – Friction Stir Processing (FSP) – Functionally Graded Materials (FGM).
- Processing: Stir Casting – Rheocasting – Powder Metallurgy (PM) – Squeeze Casting - Friction Stir Welding (FSW) – Friction Stir Processing (FSP) – Non-conventional machining.
- Testing: Mechanical Properties – Microstructural Properties – Tribological Characteristics – Corrosion resistance – Machinability.

RESEARCH PROJECTS:

- Principle Investigator (PI) of a project titled "study of the chemical corrosion behavior of al based metal matrix composites reinforced with nano-sized ceramic particulates ", Science and Technology Centre, King Khaled University, Faculty of Engineering, 2009-2011.
- Co-Investigator (CO-PI) of a project titled "Mechanical, Tribological and Machining characteristics of Al Based Metal Matrix Nano-Composites at Room and Elevated Temperatures ", Science and Technology Centre, King Khaled University, Faculty of Engineering, 2009-2011.

COMPLETED POSTGRADUATE PH.D. SUPERVISION:

- Lila Shehata Yousef, "Influence of Semi-Solid Casting Process Parameters on the Microstructural Characteristics of Mechanically Stirred A356 Al Alloy", Cairo University, Faculty of Engineering, 2007.
- Samah Samir Mohamed, "Mechanical and Tribological properties of epoxy-based PMCs reinforced with different ceramic particulates", Benha University, Faculty of Engineering, 2010.

COMPLETED POSTGRADUATE M.SC. SUPERVISION:

- Warda Abou Al-Hassan, "Characterization of Al-Si Cast Alloys Reinforced by Al_2O_3 Nano-Particulates", Cairo University, Faculty of Engineering, 2009.
- Ahmed Saad Hassan, "Friction Stir Welding (FSW) of dissimilar Al-Si Cast Alloys", Benha University, Faculty of Engineering, 2010.
- Gergis Edward Mehanny, "Mechanical and Tribological characteristics of epoxy-based polymeric matrix composites reinforced with various ceramic particulates", Benha University, Faculty of Engineering, 2010.
- Doaa Mahmoud Abdel-Fatah Ads, "Tribological behavior of Ultra-High Molecular Weight Polyethylene (UHMWPE)", Benha University, Faculty of Engineering, 2011.
- Mohamed Rafaat Mohamed, "Development of surface composites using friction stir processing", Benha University, Faculty of Engineering, 2012.
- Mohamed Ahmed Sayed Ahmed Afifi, "Corrosion behavior of Zinc-based metal matrix composites", Benha University, Faculty of Engineering, 2012.
- Heba Ibrahim Mahmoud Mohamed El-Khouly, "Studying of the effect of somecore materials in to the sandwich beam performance", Benha University, Faculty of Engineering, 2012.
- Noura Sobhi Abou-Sreea, "Mechanical properties of metal matric composites", Benha University, Faculty of Engineering, 2012.

CONFERENCES & WORKSHOPS

1. Materials Science and Engineering, 24-26 August 2010, Darmstadt, Germany.
2. World Congress on Engineering 2010 (WCE 2010), London, U.K., 30 June - 2 July, 2010.
3. World Congress on Engineering 2009 (WCE 2009), London, U.K., 1-3 July, 2009.
4. The 17th European Conference on Fracture, Brno, Czech Republic, 2-5 Sept., 2008,
5. The 2nd Multifunctional Nanocomposites & Nanomaterials: International Conference & Exhibition, organized by the American University in Cairo - AUC, in collaboration with Cairo University, Sharm El Sheikh, Egypt, January 11-13, 2008.
6. The 1st Egyptian-German WorkShop on Materials Processing and Manufacturing Technologies, Central Metallurgical Research and Development Institute (CMRDI), Helwan, Cairo, Egypt, May 7-9, 2007.
7. The 5th International Engineering Conference, Faculty of Engineering, Mansura University, Sharm El-Sheikh, March 27-31, 2006.
8. The 12th European Conference on Composite Materials, ECCM 12, 29 Augst – 1 Sept., Biarratz, France, 2006.
9. The 6th Arab Foundary Symposium (ARABCAST 2006), 12-15 November, Sharm El-Shiekh, Egypt, 2006.
10. The 9th International Conference for Mining, Petroleum, and Metals, Faculty of Engineering, Cairo University, Feb. 21-24, 2005.

REVIEWING WORK

1. Journal of Mechanical Engineering Science, Proc. IMechE Part C, UK.
2. Journal of Tribology, Elsevier.
3. International Journal of Mechanical and Materials Engineering *(IJMME)*, Malaysia.
4. Journal of materials processing technology, Elsevier.
5. BioResources.com (only journal).

INTERNATIONAL JOURNALS PUBLICATIONS

1. E.Y.El-Kady, **T.S.Mahmoud,** M.Abdel-Aziz, "Dry sliding wear behavior of A356/Al_2O_3 metal matrix nanocomposites (MMNCs)", Nano Science - Nano Technology:An Indian Journal, Volume 7(2), 2013, pp. 1-13..
2. **T. S. Mahmoud**, E. Y. El-Kady, A. S. M. Al-Shihri, T. A. Khalil, "Electrochemical Corrosion Characteristics of Al/SiC and Al/Al_2O_3 Metal Matrix Nanocomposites", Materials Sciences and Applications, In press.
3. **T.S. Mahmoud**, E.Y.El-kady, A. Al-Shihri, "On the corrosion behaviour of Al/SiC and Al/Al_2O_3 metal matrix nanocomposites", Nano Science - Nano Technology: An Indian Journal, Vol. 6, Issue 4, 2012.
4. E. Y. El-Kady, **T. S. Mahmoud**, A. A. El-Betar, M. Abdel-Aziz, " Dynamic Behaviour of Cast A356/Al_2O_3 Aluminum Metal Matrix Nanocomposites", Materials Sciences and Applications, 2012, 3, pp. 815-820.
5. E.Y. El-Kady, **T. S. Mahmoud**, M.H.G. Ghaith, "Machinability of A356/Al_2O_3 metal matrix nanocomposites (MMNCs)", Materials Science:An Indian Journal, vol. 9, No. 1, 2013, pp. 1-7.
6. **T.S. Mahmoud**, S. S. Mahmoud, “Improvement of microstructural, mechanical and tribological characteristics of A413 cast Al alloys using friction stir processing”, Materials Science and Engineering A, 2012, 558, pp. 502–509.
7. **Tamer Samir Mahmoud**, El-Sayed Yousef El-Kady, Ayed Saad Merzen Al-Shihiri, "Corrosion Behaviour of Al/SiC and Al/Al_2O_3 Nanocomposites", Materials Research, 2012, 15(6), pp. 1-8.
8. **T.S. Mahmoud**, “Artificial neural network prediction of the wear rate of powder metallurgy Al/Al_2O_3 metal matrix composites”, Proc. IMechE Part L: J. Materials: Design and Applications, 2012, 226, pp. 3-15.
9. **T.S. Mahmoud**, E.Y. El-Kady, A. Al-Shihri, “Mechanical and corrosion behaviour of Al/SiC and Al/Al_2O_3 metal matrix nanocomposites fabricated using powder metallurgy route”, Corrosion Engineering, Science and Technology, 2012, 47 (1), pp. 45-53.
10. D. Adss, **T.S. Mahmoud**, H.M. Zakaria, T.A. Khalifa, "Prediction Of The Wear Behavior Of UHMWPE Using Artificial Neural Networks", Research & Reviews in Polymers, Vol.2(2), 2011, pp. 1-9.
11. El-Sayed Youssef El-Kady, **Tamer Samir Mahmoud**, Ali Abdel-Aziz Ali, “On the Electrical and Thermal Conductivities of Cast A356/Al2O3 Metal Matrix Nanocomposites”, Materials Sciences and Applications, 2011, 2, pp. 1180-1187.

12. M. Raaft , **T.S. Mahmoud**, H. M. Zakaria, T. A. Khalifa "Microstructural, mechanical and wear behavior of A390/graphite and A390/Al_2O_3 surface composites fabricated using FSP", Materials Science and Engineering A, 528, 2011, pp. 5741-5746.
13. El-Sayed Youssef El-Kady, **Tamer Samir Mahmoud**, Mohamed Abdel-Aziz Sayed, "Elevated Temperatures Tensile Characteristics of Cast A356/Al_2O_3 Nanocomposites Fabricated Using a Combination of Rheocasting and Squeeze Casting Techniques", Materials Sciences and Applications, 2011, 2, pp. 390-398.
14. El-Mahallawi I. S., Shash Y., Eigenfeld K., **Mahmoud T. S.**, Ragaie R. M., Shash A. Y. and El Saeed M. A., "Influence of nano-dispersions on strength– ductility properties of semisolid cast A356 Al alloy", Materials Science and Technology, Volume 26, Number 10, October 2010 , pp. 1226-1231(6).
15. A.M. Gaafer, **T.S. Mahmoud**, E.H. Mansour, "Microstructural and mechanical characteristics of AA7020-O Al plates joined by friction stir welding", Materials Science and Engineering A, 2010, 527 (27-28), pp. 7424–7429.
16. A. S. Hassan, **T. S. Mahmoud**, F. H. Mahmoud, T. A. Khalifa, "Friction Stir Welding of dissimilar A319 and A356 Aluminum Cast Alloys", Science and Technology of Welding and Joining, 2010, 15(5), pp. 414-422.
17. **Mahmoud T. S.**, Shaban O. M., Zakaria H., Khalifa T. A., "on the effect of FSP on the microstructural and mechanical characteristics of A390 hypereutectic Al-Si alloy", Materials Science and Technology, 2010, 26 (9), pp. 1120-1124.
18. Rashed F. S., **Mahmoud T. S.**, "Prediction of wear behaviour of A356/SiC_p MMCs using neural networks", Tribology International, 42, 2009, pp. 642–648**.**
19. **Mahmoud T. S.**, "Effect of friction stir processing on electrical conductivity and corrosion resistance of AA6063-T6 Al alloy", Proc. IMechE Part C: J. Mechanical Engineering Science, 2008, 222(C7), pp. 1117-1123.
20. **Mahmoud T. S.**, Mahmoud F. H., Zakaria H., Khalifa T. A., "Effect of squeezing on porosity and wear behaviour of partially remelted A319/20 vol.-% SiC_p MMCs", Proc. IMechE, Part C: J. Mechanical Engineering Science, 2008, 222(C3), pp. 295-303.
21. **Mahmoud T. S.**, Gaafer A. M., Khalifa T. A., "Effect of tool rotational and welding speeds on the microstructural and mechanical characteristics of friction stir welded A319 cast al alloy", Materials Science and Technology, 2008, 222, No. 7, pp. 1117-1123.
22. M. Abdel Aziz, **T.S. Mahmoud**, A. Abdel Aal, "Modelling and optimizing of factors affecting erosion–corrosion of AA6063–(TiC/Al_2O_3) hybrid composites by experimental design method", Materials Science and Engineering: A, Volume 486, Issues 1-2, 15 July 2008, pp. 313-320.
23. **Mahmoud T. S.**, "Tribological characteristics of A390/Gr_p MMCs fabricated using a combination of rheocasting and squeeze casting techniques", Proc. IMechE, Part C: Journal of Mechanical Engineering Science, 2008, 222(C2), pp. 257–266.

24. Abdel Aziz M., **Mahmoud T. S.**, Zaki Z. I., Gaafer A. M., "Heat Treatment and Wear Characteristics of Al_2O_3 And TiC Particulate Reinforced AA6063 Al Alloy Hybrid Composites", Journal of Tribology, ASME, October 2006, vol. 128, pp. 891-894.
25. **Mahmoud T. S.** and Kazakov A. A. "Thermodynamic forecasting of nonferrous thixotropic alloy compositions", J. Electrometallurgy, in Russian, 2003, vol. 4, pp. 22-27.
26. **Mahmoud T. S.** and Kazakov A. A. "Thermodynamic forecasting of cast iron alloy compositions for semi-solid forming technology", J. Electrometallurgy, in Russian, 2002, vol. 8, pp. 16-20.

INTERNATIONAL CONFERENCES PUBLICATIONS

1. Mohamed S., **Mahmoud T.**, El Mahallawi I., Khalifa T., "Tribological Characteristics of Epoxy Based Nano-Composites under Dry Sliding and Water Lubricating Conditions", In the conference of materials science and engineering, 24-26 August, 2010, Darmstadt, Germany, Topic: A-Functional Materials, www.mse-congress.de.
2. Hassan A. S., **Mahmoud T. S.**, Mahmoud F. H., Khalifa T. A., "Corrosion behaviour of dissimilar A319 and A356 Aluminum Cast Alloys joined by friction stir welding (FSW)", World Congress on Engineering 2009 (WCE 2009), London, U.K., 30 June - 2 July, 2010, vol. 2, ISBN: 978-988-18210-7-2.
3. Tarek A. Khalifa and **Tamer S. Mahmoud**, "Elevated Temperatures Mechanical Properties of Al Alloy AA6063/SiC_p MMCs", World Congress on Engineering 2009 (WCE 2009), London, U.K., 1-3 July, 2009, pp 1557-1562.
4. Abdel-Aziz M, **Mahmoud T.S.**, Gaafer A.M., "Fabrication and fatigue behavior study of Metal matrix composite AA6063/MgO", The 17th European Conference on Fracture, 2-5 Sept., 2008, Brno, Czech Republic, pp. 1424-1431.
5. Abdel Aziz M., **Mahmoud T. S.**, Zaki Z. I., Gaafer A. M., "Mechanical and Wear Characteristics of AA6063/Al_2O_3/TiC Particulate Metal Matrix Composites", 12th European Conference on Composite Materials, ECCM 12, 29 Augst – 1 Sept., Biarratz, France, 2006.

LOCAL JOURNALS PUBLICATIONS

1. **T.S. Mahmoud**, F.S. Rashed, A.M. Gaafer, "Mechanical and Microstructural Characteristics of AA6063/Al_2O_3 Surface Composites Fabricated Using Friction Stir Processing", Scientific bulletin, Ain shams university, Faculty of engineering, 2010.
2. Mohamed S. S., **Mahmoud T. S.**, ElMahallawi I. M., Khalifa T. A., "Mechanical and tribological characteristics of epoxy-based PMCs reinforced with different ceramic particulates", Engineering Research Journal, Faculty of Engineering-Mataria –Helwan University, vol. 121, 2009, pp. M29-M49.

3. El-Kady E. Y.**, Mahmoud T. S.**, Nemat-Alla M.and Hassab-Allah I. M., "Investigation of friction stir welding parameters in the stirred zone for A356 Al cast alloy", Journal of Engineering Science, Assiut University, Vol. 37, No.1, January 2009. pp. 101-114.
4. Yousef L. S., **Mahmoud T. S.**, Ragaie R. M., ElMahallawi I. M., "Effect of mechanical stirring in mushy zone on the Microstructural characteristics of A356 Al Alloy", Journal of engineering and applied science, faculty of engineering, Cairo university, vol. 53, No. 4, Aug. 2006, pp. 557-572.
5. Zakaria H. M., Gaafer A. M., Habib S. S., **Mahmoud T. S.**, "Influence of Microstructural Characteristics on Electrical Discharge Wire Cutting Conditions of A390 Al-Si Hypereutectic Alloy", Mansoura Engineering Journal, (MEJ), vol. 31, No. 2, June 2006, pp. M32-M40.
6. Adel Aziz M., Zaki Z. I., Gaafer M. A., **Mahmoud T. S.**, "Heat treatment and wear characteristics of Al_2O_3 and TiC particulate reinforced Al alloy hybrid composites", In the proc. of the 5th international engineering conference, Mansoura and Sharm El-Sheikh, March 27-31, 2006, vol. 2, pp. M241-M252.
7. Rashed F. S., M. R. Ibrahim, **Mahmoud T. S.**, "Dry Sliding wear behaviour of A356-SiCp MMCs synthesised using partial liquid phase casting process", Scientific bulletin, Ain shams university, Faculty of engineering, vol. 41, No.1, March 31, 2006.
8. Rashed F. S., M. R. Ibrahim, **Mahmoud T. S.**, "Microstructural and Mechanical characteristics of A356/SiCp MMCs Produced by rheocasting technique", Journal of engineering and applied science, Faculty of engineering, Cairo University, vol. 52, No. 5, Oct. 2005, pp. 10001-1018.
9. Gaafer A. M., Habib S.S., Abdel Aziz M. S., **Mahmoud T. S.**, "Bayesian neural network model for prediction of WEDM parameters for MMCs", Scientific bulletin, Ain shams university, Faculty of engineering, vol. 40, no. 3, 30 September, 2005, pp. 677-690.

LOCAL CONFERENCES PUBLICATIONS

1. El-Mahallawi I. S., Eigenfield K., F. Kouta, A. Hussein, **Mahmoud T. S.**, Ragaie R. M., Shash A. Y., Abou-Al-Hassan W., "Synthesis and Characterization of New Cast A356/$(Al_2O_3)_P$ Metal Matrix Nano-Composites", ASME, In the proceeding of the 2nd Multifunctional Nanocomposites & Nanomaterials: International Conference & Exhibition, organized by the American University in Cairo - AUC, in collaboration with Cairo University, Sharm El Sheikh, Egypt, January 11-13, 2008.
2. El-Mahallawi I. S., Ragaie R. M., **Mahmoud T. S.**, Shash A. Y., "Effect of processing parameters on the mechanical charactersitics of A356/$(Al_2O_3)_p$ cast metal matrix nano-composites (MMNCs)", In the proc. of 6th Arab Foundary Symposium (ARABCAST 2006), 12-15 November, 2006, Sharm El-Sheikh, Egypt.
3. Adel Aziz M., Zaki Z. I., Gaafer M. A., **Mahmoud T. S.**, "Heat treatment and wear characteristics of Al_2O_3 and TiC particulate reinforced Al alloy

hybrid composites", In the Proc. of the 5th international engineering conference, Mansoura and Sharm El-Sheikh, March 27-31, 2006, vol. 2, pp. M241-M252.

4. **Mahmoud T. S.**, Gaafer A. M. and Abdel-Aziz M., "Mechanical Properties and Aging Behaviour of Al_2O_3 Reinforced Aluminium Composites Prepared by Rheocasting Technique", the 9th International Mining, Petroleum, and Metallurgical Engineering Conference, February, 21-24, 2005, Met28, pp. 1-10.

PUBLISHED BOOKS

1. Co-Author, WCE 2009 Edited Book, "Current Themes in Engineering Science 2009" (published by American Institute of Physics), Editor Alexander M. Korsunsky, vol. 1220, 2010.