

Curriculum Vitae

Name: Mahmoud Ahmed Bakry Mohamed

Date and Place of Birth: January 09, 1974, Aswan, Egypt.

Mailing address:

Engineering Production & Machine Design Department,
Collage of Energy Engineering,
Aswan University, Aswan 81528, Egypt.



Phone numbers

Tel. (Home): +20-(0)97-2318062, Mobile: +20-1146622873

Tel. (Work): +20-(0)97-3482530, Fax (Work) +20-(0)97-3481234

E-mail contact information

mahmoud19742002@yahoo.com

mahmoud19742002@energy.aswu.edu.eg

Key Qualifications:

Description of Duties:

- (1) Education for graduates and under graduate students in field of Engineering Production & Machine Design and supervising graduate student's research work.
- (2) Performing Research related to selecting the components of hydraulic control circuits by design a computer experience program (CAD)
- (3) Performing Research related to the utilization of wasted organic materials for synthesis a new composites material and improving the mechanical and tribological properties of composites materials in nanocomposites field.
- (4) Working for the Collage of Energy Engineering, Aswan, Aswan University, Egypt and quality assurance program for graduate and under graduate programs and curriculum development.
- (5) Academic Supervisor in nanotechnology center of Collage of Energy Engineering, Aswan, Aswan University
- (6) A registered expert consultant at the Egyptian General Organization for Physical Planning in the area of Engineering Materials Studies.

Summarize of Achievements:

Working for arrangement and organization of one international conference December 2008 held at Aswan, Collage of Energy Engineering, Aswan University, Egypt.

Major Research Topics:

- (1) Fuzzy approach for selection a hydraulic circuits components.
- (2) Improving the mechanical and tribological properties of composites materials
- (3) Improving the mechanical and tribological properties by nanotechnology Technology.

Teaching Duties:

1- Production Technology and workshop.

2- Production Engineering

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| 3- Engineering Drawing | 4- Machines Drawing |
| 5- Machine element Design | 6- Machine Tool Design |
| 7- Creative Problems Solution. | 8- Strength of Materials. |
| 9- Engineering Mechanics. | 10- Materials Science |

Training

- (1) Full courses program and workshop on nanotechnology " National Research center , Cairo - Egypt "
- (2) Course in UNIX Utilities: At Advanced Centre of Computer Systems in Ministry of Higher Education, Cairo, Egypt, 2000.
- (3) Course in Moral Philosophy of Academic Professor: At High Universities Seat Quality and Confirmation Centre, Aswan University, Ministry of Higher Education, Aswan, Egypt, 2006.
- (4) Course in Skills of Mass Communication Effectiveness: At High Universities Seat Quality and Confirmation Centre, Aswan University, Ministry of Higher Education, Aswan, Egypt, 2006.
- (5) Course in Skills of Thinking Effectiveness: At High Universities Seat Quality and Confirmation Centre, Aswan University, Ministry of Higher Education, Qena, Egypt, 2006.
- (6) Course in Skills of Teaching Effectiveness: At High Universities Seat Quality and Confirmation Centre, Aswan University, Ministry of Higher Education, Qena, Egypt, 2006.

Education:

- (1) Ph.D. Materials Engineering, Department of Production Engineering & Design , El maina University, Faculty of Engineering, Egypt, 2008.
- (2) M.Sc. In Hydraulic control systems , Department of Mechanical Engineering, Aswan, Collage of Energy Engineering, Aswan, Egypt, 2000.
- (3) B. Sc. In Mechanical Engineering, Department of Mechanical Power Engineering, Aswan, Collage of Energy Engineering, Aswan, Egypt, May 1997.

Researchs, and Publications

1. T. A. Osman, E. El-Giddawy, **M. A. Bakry**, and A. Salama, "Investigation of fuzzy logic approach for selecting hydraulic directional control valves at the preliminary design stage" Published in international Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology, Volume 13 Issue 1, pp. 35 -44, December 2002,
2. M. M. Dewidar, G.T. Abdel-Jaber, **M. A Bakry**, and Hussien Badrya, "Effect of Processing Parameters and amount of additives on the Mechanical Properties and Wear Resistance of Copper-based Composite" International Journal of Mechanical & Mechatronics IJMME-IJENS Vol: 10 No: 03, pp. 25-40. June. 2010
3. A. Thabet and, Y. A. Mubarak, **M. A. Bakry**, "Developing Characterization of Industrial Polymer Conducting Materials by using Nano-Metric Fillers" Assuit Univ. Journal, Vol.38, No.5, pp.1227-1246, Sept.2010.
4. A. Thabet and, Y. A. Mubarak, **M. A. Bakry**, "Developing Performance of Industrial Insulation Polymers with Nano-Fillers and their Characterization" Published in Assuit Univ. Journal, 2010.
5. A. Thabet and, Y. A. Mubarak, **M. A. Bakry**, "A Survey of Nano-Fillers Effects on Industrial Polymers and Their Characterization" Published in Assuit Univ. Journal, 2011.

6. **M. bakry**, M. O. Ali Y. A. "Friction and Wear of Friction Composites Reinforced by Natural Fibers" Published in International Conference on Materials Science and its Applications Development and Innovation. Taif University, KSA, 13 -15 February 2012
7. A.M. Hashem, M. Dewidara, **Bakry M.**, and D. Khalafala, "Mechanical Properties of polypropylene (PP) Polymer Reinforced by Hemp Fiber" Materials Physics and Mechanics Vol. 15, pp119-125, July 2012
8. A.M. Hashem, M. Dewidara, **Bakry M.**, and D. Khalafala, "Mechanical Properties of PVC Polymer Reinforced by Hemp Fiber" published in El Mansoura Univ. Journal, 2012.
9. AM Al-Enizi, MM El-Halwany, M A Al-Abdrabnabi, **M Bakrey**, "Novel Low Temperature Route to Produce CdS/ZnO Composite Nanofibers as Effective Photocatalysts", Catalysts Journal, Vol. 417,10 April 2020.
10. Ibrahim R. A., Mohamed M. K., Ali W. Y., Abdel-Jaber G. T. and **Bakry M.**, "ENHANCING THE FRICTIONAL PERFORMANCE OF SPORT GLOVES", THE EGYPTIAN SOCIETY OF TRIBOLOGY Journal, Vol. 17, pp. 23-33, 08 August 2020.
11. Dalia M. El-Gendya, R.M. Abdel Hameedb, Abdullah M. Al-Enizic, **Mahmoud Bakreyd**, Mohd Ubaidullahc, Ayman Yousef, "Synthesis and characterization of WC@GNFs as an efficient supercapacitor electrode material in acidic medium" Ceramics International Journal, Vol. 46, pp. 437-445, 1 December 2020
12. Ameer A. K., Samy A. M., **Bakry M.**, "Measurements of Electric Static Charge Generated From Sliding of Cotton Against Clothes Textile", Solid State Technology Journal, Vol. 63, No. 4, pp. 46-56, January 2021.
13. Abdullah M. Al-Enizi, R.M. Abdel Hameed, M.M. El-Halwany, **Mahmoud Bakrey** Shoyebmohamad F. Shaikh, Ayman Yousef, "Tungsten carbide@graphene nanoflakes: Preparation, characterization and electrochemical activity for capacitive deionization technology", Journal of Colloid and Interface Science, Vol. 581, pp. 112-125, 2021.
14. **Bakry M.**, Ameer A. K. and Badran A. H., "TRIBOLOGICAL PROPERTIES OF POLYESTER COMPOSITES FILLED BY RECYCLED THERMOPLASTIC POLYMERS", Vol. 18, No. 1, pp. 18 - 28, January 2021

Professional Experience:

- (1) Assistant Professor, Department of Material Engineering & Collage of Energy Engineering, Aswan University, Egypt (Since May 24, 2008).
- (2) Internal Envoy to Department of Production Engineering & Design , El mania University, Faculty of Engineering, Egypt, (from February , 14, 2006 to May 20, 2008)
- (3) Assistant Lecture, Department of Material Engineering & Design, Collage of Energy Engineering, Aswan University, Egypt. (From January 14, 2001 to February , 13, 2006).
- (4) Demonstrator (teaching and research assistant), Department of Mechanical Engineering, Collage of Energy Engineering, Aswan University, Egypt. (From December, 20, 1997 to January 13, 2001).

Professional Affiliations:

- (1) Member of Engineering Syndicate, Cairo, Egypt.(Since 1997 till now)
- (2) Member of Egyptian society for advanced materials & nanotechnology (National Research center , Cairo - Egypt)

References

1. Professor Tarek. A . Osman

Department of Design & Production Engineering,

Faculty of Engineering,

Cairo University,

Cairo, Egypt

Phone: 002 010 2025 088

Fax: 002 02 3850 9504

Email: drtarek@amigenset.com

2- Professor Wahid Yossery Aly

Department of Production Engineering & design

Faculty of Engineering,

El Mania University,

El Mania , Egypt

Phone: +2 (0)10 1293712

Email: wahyos@hotmail.com