



1- PERSONAL DATA:

Name : MOHAMED TALAAT MOHAMED MOUSTAFA

Gender :MALE

Date of Birth :11 - 2 - 1979

Place of Birth : ZAGAZIG, SHARKIA, EGYPT

Nationality :EGYPTIAN

Address : Electrical Power & Machines Department, Faculty of Engineering,

Zagazig University, Zagazig, P.O. 44519, EGYPT.

Current Position: Assistant Professor at Electrical Power & Machines Engineering

Department, Faculty of Engineering, Zagazig University.

E-mail :m_mtalaat@yahoo.com

m_mtalaat@hotmail.com m_mtalaat@zu.edu.eg

Phone : Mobile: (002) 0100-5030549, 055-3655940

Fax :

Marital Status : Married with 3 Children.
Major : Electrical Engineering.

Fine : Electrical Power and Machines Engineering.

2- EDUCATION AND OCCUPATION:

Ph. D. : July 2009, in Electrical Power and Machines Engineering, Zagazig

University, Egypt.

Ph.D. Title : Electrical Trees in Solid Insulation Analysis.

M.Sc.: November 2005, in Electrical Engineering, Zagazig University,

Egypt.

M.Sc. Title : Electrical Pre-Breakdown Analysis in Dielectric Liquid Using Air

Bubble Deformation in the Medium.

B.Sc. : May 2000 in Electrical Engineering, with grade Distinction "very

good with honor ", Zagazig University, Egypt.

2000 – 2001 : • Elec. Eng. at El-said Office for Engineering Design, next to

Egyptian Zoo of Giza, Egypt from 1-8-2000 till 12-12-2000.

• Elec. Eng. at Egyptian Drilling Company (EDC) for Petroleum and Oil Drilling from 12-12-2000 till 11-2-2001.

• Elec. Eng. at Canal Electrical Distribution Company, Al Asher

men Ramadan, from 11-2-2001 till 25-8-2001.

2000 – 2005 : Demonstrator at the Faculty of Engineering, Zagazig university.

2005 – 2009 : Lecturer Assistant at the Faculty of Engineering, Zagazig University

2009 - present: Assistant Professor at the Faculty of Engineering, Zagazig

University.

2009 – 2013 Visitor professor at High Technology Institute in 10th of Ramadan.

2010 – 2012 Consultant for Communication and Information Technology Center

CITC/MIS with Zagazig University.

2012 - present MIS Project Manager at Zagazig University

3- TEACHING EXPERIENCE:

: Power System Analysis for Fourth year Electrical Eng. Students.

: Electrical Power Eng. for Fourth year Electrical Eng. Students

: Power System Dynamics & control for Fourth year Electrical Eng. Students.

: High Voltage for third year Electrical Eng. Students.

: Electrical Measurement for third year Electrical Eng. Students.

: Utilizations of power system for third year Electrical Eng. Students.

: Computer Design of Electrical Power System for third year Electrical Eng. Students.

: Electromagnetic Fields for second year Electrical Eng. Students.

: Electrical Measurement for second year Electrical Eng. Students.

Courses

- : Electrical and Electronics Engineering for second year Mechanical Eng. Students.
- : Electrical Power & Machines Eng. for third year Computers and Systems Eng. Students
- : Computer applications in Electromagnetic Fields for post graduate Electrical Eng. (Master).
- : Modern Trends in High Voltage and DC Transmission Line for post graduate Electrical Eng. (Master).
- : Economic System Operation of Electrical Power System for post graduate Electrical Eng. (Diploma).
- : Artificial Intelligent for Power System Operation for post graduate Electrical Eng. (Doctor of Physiology).

UNIVERSITY

4- RESEARCH INTERESTS:

: High Voltage Technique.

: Electromagnetic fields.

: Underground cables.

: Transformer oil.

: Insulations Material (Dielectric Liquid – Gases – Solids)

: Charge Simulation Technique.

: Genetic Algorithms.

: Computer Simulation.

5- THESIS SUPERVISION:

M. Sc. : 6

Ph. D. : None.

6- LANGUAGES:

- : Arabic.
- : English, Fluent spoken and written.

7- SOCIETY MEMBERSHIP:

- : Member and Reviewer for IEEE PES Transactions on Power Delivery.
- : Egyptian Syndicate for Engineers, 2000 Present.
- : Member of IEEE Society.
- : Editor Board Member for for International Journal of Electrical Engineering, Romania.
- Member of
- : Member and Reviewer for International Journal of Electric power components and systems.
- : Editor Board Member for International Journal of Electromagnetics and Applications (USA).
- : Reviewer for IEEE TDEI Transactions on Dielectric and Electrical Insulation.
- : Reviewer for Journal of Electromagnetic Analysis and Applications, China.

8- TRAINING WORKSHOPS:

- : Faculty and Leadership Development Project (FLDP)- 16 programs
- : ICDL Examiner in the project of UNISCO for computer training
- : Training in Poland 2013 for mechatronics degree funded by Europe

9- PUBLICATIONS:

- [1]. A. El-Zein and M. Talaat "New Experimental Study of an Injected Air Bubble Deformation in Dielectric Liquid under Applied High D.C. Voltage Using Photographic Recording" IEEE, Ninth International Middle East power systems conference, MEPCON' 2003, pp. 869-873 Shebin El-Kom, Egypt, December 16-18, 2003.
- [2]. A. El-Zein and M. Talaat "Pre-Breakdown Analysis during the Deformation of an Artificial Air Bubble in Transformer Dielectric Liquid under High DC Negative Applied Voltage" IEEE, Tenth International Middle East power systems conference, MEPCON' 2005, pp. 113-117, Port-said, Egypt, December 13-15, 2005.
- [3]. **A. El-Zein, M.M. El Bahy and M. Talaat** "Types of Electrical Tree in Solid Insulation Under Electrical and Mechanical Energy Basis" **IEEE**, Power System Conference **MEPCON' 2008**, pp. 80-84, Aswan, **Egypt, 2008**.

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- [4]. A. El-Zein, M.M. El Bahy and M. Talaat "A Simulation Model for Electrical Tree in Solid Insulation Using CSM Coupled with GAs" IEEE Annual Report Conference on Electrical Insulation and Dielectric Phenomena CEIDP 2008, pp. 645-649, Quebec, Canada October 26-29, 2008.
 - http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=4772768&url=http%3A %2F%2Fieeexplore.ieee.org%2Fiel5%2F4760206%2F4772762%2F04772768.pd f%3Farnumber%3D4772768
- [5]. **A. El-Zein, M.M. El Bahy and M. Talaat** "A Prediction Methodology of Electrical Tree Propagation in Solid Dielectrics" International Journal of Electrical Engineering, J. Elec. Eng. (2009) Vol. 9 / 2009 No. 2, pp. 87-93, 2009.
 - https://el.trc.gov.om/htmlroot/ENGG/tcolon/e references/Consolidated/Electric al%20And%20Electronics/Journals/A%20Prediction%20Methodology%20of%20Electrical%20Tree%20Propagation%20in%20Solid%20Dielectrics.pdf
- [6]. A. El-Zein, M. Talaat and M.M. El Bahy "A New Method to Predict the Electrical Tree Growth in Solid Insulation" Proceedings of the 16th International Symposium on High Voltage Engineering, (ISH 2009), paper D-15, pp. 1-6, 2009.
- [7]. A. El-Zein, M. Talaat and M.M. El Bahy "A Numerical Model of Electrical Tree Growth in Solid Insulation" IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 16, No. 6; pp. 1724-1734, December 2009.
 - http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5361596&url=http%3A %2F%2Fieeexplore.ieee.org%2Fxpls%2Fabs all.jsp%3Farnumber%3D5361596
- [8]. A. El-Zein and M. Talaat, "A New Model of Investigating the Electric Field in Dielectric Liquid for Streamer Initiation" International Journal of Electrical Engineering, J. Elec. Eng. (2010) Vol. 10 / 2010 No. 2, pp. 47-51, 2010. http://www.jee.ro/covers/editions.php?act=art&art=WN1257336554W4af16eea 2e29a
- [9]. **A. El-zein and M. Talaat**, "A Numerical Model of Investigating the Electric Field in Dielectric Liquid" **IEEE MELECON** Conference 2010, pp. 393-397, **2010**. <a href="http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5476252&url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel5%2F5470286%2F5475895%2F05476252.pdf%3Farnumber%3D5476252
- [10]. **M. Talaat** "A Simulation Model of Fluid Flow and Streamlines Induced by Non-Uniform Electric Field" **IEEE**, 14th International Middle East Power Systems Conference **MEPCON'10**, pp. 371-375, Cairo University, **Egypt**, December 19-21, **2010**. www.sdaengineering.com/mepcon10/Papers/181.pdf
- [11]. M. Farahat and M. Talaat "A New Approach for Short-Term Load Forecasting Using Curve Fitting Prediction Optimized by Genetic Algorithms" IEEE, 14th International Middle East Power Systems Conference MEPCON'10, pp. 106-110, Cairo University, Egypt, December 19-21, 2010.

www.sdaengineering.com/mepcon10/papers/125.pdf

- [12]. **M. Talaat** "Charge Simulation Modeling for Calculation of Electrically Induced Human Body Currents" **IEEE** Annual Report Conference on Electrical Insulation and Dielectric Phenomena **CEIDP 2010**, pp. 644-647, **USA**, October 17-20, **2010**.
- http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=5723972&contentType=Conference+Publications&queryText%3DCharge+Simulation+Modeling+for+Calculation+of+Electrically+Induced+Human+Body+Currents
- [13]. **M. Talaat** "Influence of Transverse Electric Fields on Electrical Tree Initiation in Solid Insulation" **IEEE** Annual Report Conference on Electrical Insulation and Dielectric Phenomena **CEIDP 2010**, pp. 313-316, **USA**, October 17-20, **2010**. http://ieeexplore.ieee.org%2Fxpls%2Fabs all.jsp%3Farnumber%3D5724019
- [14]. M. Talaat "Electric Field Simulation along Silicone Rubber Insulators Surface" Proceedings of the 17th International Symposium on High Voltage Engineering, (ISH 2011) Germany, paper A-22, pp. 1-6, 2011.
- [15]. M. Talaat, A. El-Zein, "Analysis of Air Bubble Deformation Subjected to Uniform Electric Field in Liquid Dielectric", International Journal of Electromagnetics and Applications, Vol. 2, No. 1, pp. 4-10, 2012.

 http://article.sapub.org/10.5923.j.ijea.20120201.02.html
- [16]. M. A. Farahat, M. Talaat, "Short-Term Load Forecasting Using Curve Fitting Prediction Optimized by Genetic Algorithms", International Fournal of Energy Engineering, Vol. 2, No. 2, pp. 23-28, 2012.

 http://article.sapub.org/10.5923.j.ijee.20120202.04.html
- [17]. M. Talaat, M. Magdy, A. Abd El-Baset, M. Abo-Msallam, A. Abdallah, E. Mohamed, A. Amer, M. El-Dallal, "Software for Calculating The Non-Uniform Electric Field Causing Electrical Tree in Underground Cables", International Journal of Electromagnetics and Applications, Vol. 2, No. 4, pp. 69-82, 2012. http://article.sapub.org/10.5923.j.ijea.20120204.04.html
- [18]. M. A. Farahat, M. Talaat, "The Using of Curve Fitting Prediction Optimized by Genetic Algorithms for Short-Term Load Forecasting", International Review of Electrical Engineering (IREE), Vol. 7, No. 6, pp. 6209-6215, December 2012 http://www.praiseworthyprize.com/journals/IREE issues.html#Part B
- [19]. M. Talaat, A. El-Zein, "A Numerical Model of Streamlines in Coplanar Electrodes Induced By Non-Uniform Electric Field", Journal of Electrostatics Vol. 71, No. 3, pp. 312-318, 2013. http://www.sciencedirect.com/science/article/pii/S0304388612001969
- [20]. Mohamed Talaat, Reda Edris, Naglaa Ibrahim, Fatma Omar, Mohamed Ibrahim, "A New Approach for Converting Renewable Energy to Stable Energy", Engineering, Vol. 5, No. 10A, pp. 27-33, 2013. http://dx.doi.org/10.4236/eng.2013.510A005

- [21]. M. Talaat and A. El-Zein, "Suppression of the Electrical Tree Growth in Solid Insulation Using a Transverse Layer of Dielectric Barrier", Journal of Electrical Engineering Vol. 13, No. 3, pp. 114-117, 2013.

 http://www.jee.ro/covers/editions.php?act=art&art=WB1350251109W507b32657d9cc
- [22]. **M. Talaat,** "Calculation of electrostatically induced field in humans subjected to high voltage transmission lines", **Electric Power Systems Research** Vol. 108, , pp. 124-133, **2014**. http://www.sciencedirect.com/science/article/pii/S0378779613002964

