

CURRICULUM VITAE

NAME Mazen Abdel-Salam

BIRTHDATE: May 21, 1946

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EXPERIENCE: In 1967, he was with the Academy of Science and Technology, Cairo, as a research Assistant. In 1973, he joined the faculty of Electrical Engineering at Assiut University, Egypt as an Assistant Professor, and in October 1977, he became an Associate Professor.

During the academic years of 1977 to 1979, he was an Alexander-Von-Humboldt Fellow in the Electrical Engineering Department, Technical University of Munich, Germany, and the Electrical Engineering Department, University of Liverpool, England. In September 1979, he began work as a Researcher with General Electric Company, Pittsfield, MA, USA.

In January 1982, he rejoined Assiut University as a Professor of Electrical Power Engineering, During the academic years of 1982 to 1984, he was a Professor in the Department of Electrical Engineering, University of Jordan, Amman. During the academic years of 1984 to 1986, he was a visiting Full Professor in the Department of Electrical Engineering, Michigan Technological University, Houghton, MI, USA. From 1990 to 1994, he was a Professor of Electric Power Engineering in the Department of Electrical Engineering at King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia. From August to December 2006, he was Visiting Professor at the Ecological Engineering Department of Toyohashi University of Technology, Toyohashi, Japan.

He had obtained research fellowships at the Military Technical University of Hamburg, Germany in 1984, at the University of Leeds, England in 1988, at Kaiserslautern University, Germany in 1989, at Michigan Technological University in 1990, at Toyohashi University of Technology, Toyohashi, Japan in 1995, at the

Technical University of Hamburg, Harburg, Germany in 1996, at Toyohashi University of Technology, Toyohashi, Japan in 1999, at the Technical University of Hamburg, Harburg, Germany in 2000, and at the University of Manchester, Manchester, U.K. in 2000, 2004 and 2005.

EDUCATION :

B. Sc. Electrical Power Engineering (in 1967)
Cairo University, Cairo, Egypt.

M. Sc. Electrical Engineering (in 1970)
Cairo University, Cairo, Egypt.

Ph. D. High Voltage Engineering (in 1973)
Cairo University, Cairo, Egypt.

MEMBERSHIP:

He has been elected Fellow of IEEE, Institute of Electrical and Electronics Engineers, in 1992, New York, USA, Fellow of IEE, Institution of Electrical Engineers, in 1992, London, England, United Kingdom and Alexander-von-Humboldt Fellow in 1977, Bonn, West, Germany, Fellow of IOP, Institute of Physics in 2002, Bristol, U.K., Fellow of JSPS, Japanese Society for Promotion of Science, Tokyo, Japan in 1996.

He is also a member of the Electrostatics Processes Committee, IEEE Industrial Applications Society.

PAPER REVIEW:

He is serving as a referee for IEEE Transaction on Industry Applications Power Apparatus & Systems, Power Delivery and Electrical Insulation as well as Journal of Physical D: Applied Physics and Journal of Computational Physics, all in the area of High Voltage Engineering and Applied Electrostatics. This is addition to engineering journals of different Egyptian Universities.

PUBLICATIONS:

About 280 technical papers and discussion contributions in the area of high voltage engineering, field calculations, control of electric machines and var flow in power systems have been published in well recognized journals and in the proceedings of international conference.

These papers are classified into the following groups:

- 1- Research papers that serve the environment (as regards the water we drink and the air we inhale)
- 2- Research papers related to electric safety
- 3- Research papers related to engineering systems
- 4- Research papers related to electric power system components
- 5- Research papers in new electrical measurements
- 6- Research papers in prediction of inception voltage

of partial discharges in dielectrics

7- Research papers in renewable energy

Author of eight chapters in a book entitled: "High voltage Engineering – Theory and Practice", Marcel Dekker, New York, USA, Second edition, 2000.

**THESIS
SUPERVISION:**

Twenty-four M. Sc. and Eleven Ph. D. degrees have been awarded under my supervision from Assiut, Cairo and Ainshams and Zagazig universities in Egypt, and KEUPM in Saudi Arabia. Currently, Six Ph. D. and Seven M. Sc. theses are under his supervision at Assiut University, Assiut, Egypt.

**PRIZES and
AWARDS**

Received the following prizes and awards:

- 1- National Prize in Engineering Sciences in 1986 (from the Egyptian Academy of Science and Technology) for contributions to the development of Electrostatic precipitation in industrial complexes.
- 2- National Prize in Engineering Sciences in 1992 (from the Egyptian Academy of Science and Technology) for contributions to applied electrostatics in industry.
- 3- Excellence Prize in Electrical Power Engineering (from the Egyptian Academy of Science and Technology in 1997 for contributions to lightning protection and applications in power industry.
- 4- Assiut University Prize for Best Research Paper in Electrical Engineering in 2000.
- 5- Japanese Government Research Award for Foreign Specialists in 1999 for contributions to health hazards due to exposure to electromagnetic field.
- 6- Assiut University Prize for Scientific Excellence in 1999 for contributions to Electric Power Engineering.
- 7- National Prize in Scientific Distinction in 2000 (from the Egyptian Academy of Science and Technology) for contributions to High Voltage Engineering Applications.
- 8- National Prize in Scientific Creativity in 2001 (from the Egyptian Academy of Science and Technology) for achievements in engineering sciences.
- 9- Assiut University Prize for Best Research Paper in

Electrical Engineering in 2001.

10- National Appreciation Prize in Engineering Sciences in 2004 (from the Egyptian Academy of Science and Technology) for global achievements in engineering sciences.

11- Assiut University Prize for Best Research Paper in Electrical Engineering in 2004

12- Assiut University Prize for Scientific Excellence in 2005 for more contributions to Electric Power Engineering.

13- SCOPUS award for contribution to engineering in 2008 by Elsevier publisher.

14- Assiut University Prize for Best Research Paper in Electrical Engineering in 2008.

15- Assiut University Prize for Best Research Paper in Electrical Engineering in 2009.

**FOUNDER/
ORGANIZER**

Founder and Organized the First MEPCON, Middle East Power System Conference, that was held in Egypt in January 1989, 1992, 1994, 1996, 1997, 1998, 2000, 2001, 2003, 2005 and 2007. The conference was hosted by Assiut University in December 2009.

Organized and taught short courses for engineers in industrial firms on power system protection, high voltage engineering, design of power substations, power system transients, transmission-line over voltages, partial discharges in electrical power apparatus and electrical hazards in petroleum industry in Egypt and Saudi Arabia.

CONSULTATIONS

Designer of an environmental chamber for testing solid insulators, with a support from Michigan Technological University, Michigan, USA. Supervisor of several research projects on AC and DC coronas and their applications in electrical power engineering, with a support from King Fahd University, Dhahran, Saudi Arabia.

Serving on a research team of a project concerned with the protection of environment from atmospheric pollution, with a support from the University of Jordan, Amman, Jordan.

Consultant for Erection of the 400-kV overhead transmission lines extending between El-Taweela Power Station and Al-Een Substation, Abou-Dabi, Emirates.

Consultant for Feasibility Study of interconnection of the electric grid of Saudi Consolidated electric company SCECO-Center with that of SCECO-West through a \pm 300 kV line connecting El-Kaseem and El-Madinal Al-Monawara in Saudi Arabia.

Consultant for investigating frequent burning of distribution transformers in SCECO-south in Saudi Arabia.

Consultant for studying environmental impact on performance of HVDC insulators, where dc overhead lines will be erected for the first time in Saudi Arabia.

Consultant for implementation of rodding factory in Egyptian Aluminum Company, Nag-Hammadi, Egypt.

Principal investigator for Energy Recovery Revenue via Improvement of Bani-Mazzar Electric Distribution Network, El-Menia, Egypt.

Principal investigator for Early Detection of Weak Points in the Distribution Grid of Middle Egypt Electric Company, Egypt.

PERSONAL

I am married, have three children, and read and write English very well.

Excellent references are available upon request.