

CURRICULUM VITAE

Prof. Dr. Dalal S. Alnaggar



Name: Dalal S. Alnaggar
Name and Place of Birth: September 9, 1949, Cairo, Egypt
Nationality: Egyptian
Marital status: Married / 3 children
Gender: Female
Name & Position of Spouse: Ahmed A. Shaker
Prof.Dr.Eng. Faculty of Engineering – Zagazig Universty

PRESENT POST:

- Chairman of Regional Center for Training and Water Studies (RCTWS).
- Vice president of the National Water Research Center, Egypt

Present Address:

Work Address: Regional Center for Training and
Water Studies (RCTWS),
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Knowledge of Language:

Mother Tongue: Arabic (Excellent)
Other languages: English (Very Good)
German (Fair)

ACADEMIC DEGREE

- 1986: Ph.D (Civil Engineering Major: Physical Geodesy) Faculty of Engineering, Cairo University-Egypt
- 1983: M.Sc.(Civil Engineering) Faculty of Engineering, Cairo University-Egypt
- 1980: Diploma Engineering "Computer programming in Geodesy" Technical University of Graz, Austria.
- 1972: B.Sc. (Civil Engineering) Faculty of Engineering Zagazig University, Egypt
- 1967: American Diploma / American Schools for Girls (ASG) – Cairo/ Egypt

EXPERIENCE

- Experiences, gained during 30 years at Ministry of Water Resources & Irrigation, in different aspects of Geomatics Engineering and Water Resources Management, Remote sensing and GIS. Took a part in several Applied Training Projects, Geometrical, Geodetic, as well as Physical IWRM Projects through her involvement with the team of the National Water Research Center/MWRI.
- Added more skills to her experience, while she was working as the Head of Field Studies Division of the Drainage Research Institute, NWRC, namely the Water Management Projects such as ... "Water and Salt Balance for Fayoum Governorate", the Egyptian-Italian project for the re-use of drainage water in irrigation. She took part in the planning of the drainage system of Egypt, within the scope of integration of irrigation and drainage policy.
- Utilizing her experience in pilot projects in the Geographic Information System, GIS and Remote Sensing Techniques dealing with water management. She supervised the projects of the Establishment of the National Gravity Standardization Net, the National South-Valley Development Project "Toshka" while she was working as the Director of the Survey Research Institute/NWRC.
- Present Position deals with developing and supervising Regional and National and International programs, workshops & conferences held under the umbrella of the UNESCO the Regional Center for Training and Water Studies in the field of water management, irrigation, drainage, computer science ... etc. Several Cooperation in the field of Training with Regional & International Organization such as ESCWA, Cap-Net, JICA, GTZ..etc.

EMPLOYMENT RECORD

1972 - 1975	Civil Engineer/ Geodetic and Gravimetric Computation Department - Egyptian Survey Authority, Cairo.
1975 - 1977	Civil Engineer/National Integrated Maps Project for Saudi Arabia, United Nations Office in Riyadh.
1978 - 1983	Research Assistant / Survey Research Institute (SRI) National Water Research Center, Cairo.
1986 - 1985	Senior Engineer / Water Master Plan Project – Ministry of Water Resources and Irrigation / MWRI.
1986 - 1988	Senior Researcher / Field Team Leader of Joint Projects at DRI - National Water Research Center, Cairo.
1988 - 1991	Associated Prof. & Head of Field Studies Division / Drainage Research Institute – National Water Research Center, Cairo.
1991 - 1993	Professor Deputy Director / Survey Research Institute – National Water Research Center, Cairo-MWRI.
1994 - 2001	Professor Director / Survey Research Institute - NWRC/MWRI.
2001 till now	Director Regional Center for Training & Water Studies / MWRI. Vice President of National Water Research Center / MWRI

SPECIAL QUALIFICATIONS AND SKILLS

Training Courses

- Computer Language FORTRAN IV course, Cairo University, 1978.
- Computer Languages and Numerical Analyses Courses, Cairo University, 1979.
- Geodetic Computer Programming, Graz University, 1980.
- Physical Godesy and Geophysics Course, Graz University, 1981.
- Personal Computer Course, Colorado State University USA, 1987.
- Applied Remote Sensing in Agriculture, Utah State University USA, 1988.
- Remote Sensing Technique, Ohio State University USA 1989.
- Remote Sensing Technique, Michigan State University USA 1989.
- Project Management Course, Colorado State University & Ministry of Public Works and Water Resources, Cairo 1991.
- Geographic Information Systems, Colorado State University USA, 1992.

RESEARCH PROJECTS

- 1- Participate in the development and the applications of the Mathematical Model of the Water and Salt Balance Project for Fayoum Governorate. 1986-1987
- 2- Participate in the design and execution of the Project of Reuse of Drainage Water for Agriculture- Joint Project between MWRI & Italian Ministry of Foreign Affairs, 1985,1986 & 1987.
- 3- Participate in the execution of "Drainage in Egypt". Published National Book under The Joint Egyptian-Dutch Project, 1989.
- 4- Participate in the Management of the International Symposium "Drainage in Arid and Semi-arid Regions". Joint Project between MPWWR & Dutch Advisory Panel, 1990.
- 5- Supervise the Design and Execution of the National Gravity Standardization Network in Egypt (ENGN-97) Survey Research Institute National Water Research Center.
- 6- Supervise the Design and Execution of The Geodetic GPS-Net for the Determination the Crustal Movements around Lake Nasser (1999). Survey Research Institute National Water Research Center.
- 7- Supervise the Design and Execution of Construct of the First Base Line in Egypt for Calibration Electronic Measurements Distances Instruments, 1995
- 8- Supervise the GIS/LIS Project for Water Management, 2000
- 9- Supervise the GIS/LIS Project for Cadastral Maps in Egypt, 2001
- 10- Supervise the National & Regional Training Projects.
- 11- Participate in the development of Applied Training Project / Shared Vision Program – Nile Basin Initiative during the years (2002, 2003 and 2004)
- 12- Participate in the development of Training Needs Assessment (TNA) Under the auspices of UNESCO for Arab and Regional Countries (2003,2004)

CONFERENCE AND WORKSHOPS

Participating in several National & International conferences, workshops, and seminars... etc.) in Egypt and all over the world.

PART TIME LECTURER

- Supervise Several M.Sc. Degrees & Ph.D. Degrees in Different Subjects of Geomatics Engineers, Remote Sensing & GIS (1986 – 2005)
- Courses "Computer Uses for the Engineers" Drainage Research Institute, NWRC, June 1987.
- Courses "Using the Mathematical Model for Water and Salt Balance" for the Engineers - Ministry of Public Works and Water Resources in Fayoum, September 1987.
- Lecture Surveying "Application", Faculty of Education, Architect Section, Zagazig University, 1991.
- Courses "Using Modern Surveying Instruments and its Utilities in Surveying" Work, Public Authority for Industrial and Mining Projects.
- Courses "Computer Applications", Public Authority for Industrial and Mining Projects.
- Annual Training Courses" Modern Surveying Sciences and Using of Modern Surveying Instruments", Training Center (Engineers), Ministry of Public Works and Water Resources.
- Lecturer "Water Resources and Nile Hydrology", Post Graduate Studies, African Studies Institute, Cairo University, 1990.
- Lecturer "Geophysics & Geodesy", Faculty of Engineering, B.Sc. Studies, Zagazig University, 1994.
- Lecturer on "Gravimetry", Faculty of Engineering, Zagazig University, 1995 - 1997.

MEMBERSHIP IN PROFESSIONAL SOCIETIES AND OTHER SCIENTIFIC NATIONAL OR INTERNATIONAL ACTIVITIES:

- Vice President of the Surveying Arab League / FIG
- Coordinator of the National Committee of Surveying and Mapping / MWRI
- Egyptian National Coordinator for the Applied Training Program / Nile Basin Initiative, World Bank
- Coordinator of Regional Training Governing Board
- Coordinator of National Training Program Governing Board
- Egyptian Representative in the Gravity Committee in (IUGG).

- Member of the National Committee for Earth Nature and Land Measurements, Academy of Scientific Research and Technology.
- Member of National of Committee International and for Irrigation & Drainage (ICID).
- Member of the Egyptian Committee for Hydrology and foundations of Irrigation, Drainage and Surveying, Surveying and Mapping Unit, Ministry of Water Resources & Irrigation.
- Egyptian Representative in Capacity Building and Education Committee / ICID .

ACTIVITIES WITH FIG

Had served as representative of NCSM in FIG Commission General Assembly and Working Weeks since 1995.

Since taking up the responsibility of FIG Working Week 2005 in Cairo, had been in contact with Prof. Holger Magel, FIG President & Mr. Markku Villikka MSC, FIG Director in particular in preparing and executing FIG Working Week 2005. Therefore having good understanding of FIG structure and functions.

VI- PUBLICATIONS (in Survey)

- 1- "Prediction of Free-Air Gravity Anomaly Map of Egypt Using Least-Squares Collocation", Civil Engineering Research Magazine, Faculty of Engineering - Al Azhar University, 1987.
- 2- "Reuse of Drainage Water for Irrigation in Fayoum". Joint Egyptian-Italian Conference on Use of Low Quality Water for Irrigation, Aswan 1988.
- 3- "A Regional Best Fitting Datum for Egypt", The Bulletin of the Faculty of Engineering, Ain-Shams University, 1988.
- 4- "Water and Salt Balance Model for Fayoum Area". I.C.I.D. Conference, Japan - Tokyo 1989.
- 5- "Planning and Management of Drainage Projects in Egypt". I.C.I.D. Conference, Japan-Tokyo 1989.
- 6- "The Fayoum Water and Salt Balance Model" Land Drainage in Egypt, Water Research Center, Cairo 1989.
- 7- "The Most Accurate Vertical Control System for The Egyptian Hydraulic Engineering Projects". Ministry of Scientific Research Conference on Recent Crustal Movements in Africa, Aswan 1990.

- 8- "Estimation of The Transformation Parameters between Local and Geocentric Datums of Egypt". Ministry of Scientific Research Conference on Crustal Movements in Africa, Aswan 1990.
- 9- "The Effect of Geoidal Information in The Accuracy of First Order Egyptian Geodetic Network". Ministry of Scientific Research Conference on Recent Crustal Movements in Africa, Aswan 1990.
- 10- "Management of The Ground Table and Control of Water Logging and Salinity in Fayoum Depression". I.C.I.D. Conference, China-Begin 1991.
- 11- "The Importance of Land Smoothing of Areas under Reclamation". The National Conference on The Future of Land Reclamation and Development in Egypt, Minia University 1992.
- 12- "The Importance of Geodetic Vertical Control of Lake Nasser". Nile 2002 , IWRA International Conference ,Khartoum - Sudan 1993.
- 13- "A Comparative Study Of GPS Networks In Egypt" -Water Science Magazine, NWRC, 1994.
- 14- "The Crustal Movements Monitoring Network In Aswan, Egypt"- Water Science Magazine, NWRC, 1995.
- 15- "Representation Of Gravity Field In Egypt Based On Digital Terrain Model"- IUGG Meeting, Colorado, USA, July 1995.
- 16- "Exploratory Study Concerning The Consequences Of The Egyptian North Coast And The Mediterranean Sea Inter - Relationship"- The International Conference on Navigation and Marine Sciences in Mediterranean and Red Seas, Alexandria, Egypt, November 1995.
- 17- "Merits Of Surveying And Mapping Operations In Building An Efficient GIS For The Management Of Irrigation System In Egypt"- United Nations GIS Workshop for Electrical Utilities, Cairo, Egypt, November, 1995.
- 18- "Increasing The Reliability Of GPS Geodetic Networks"- The International Conference on Satellite Positioning Systems, Alexandria, Egypt, December 1995.
- 19- "Monitoring Recent Crustal Movements In The Mokattem Area , Cairo , Egypt"- The National Conference of Water Research Center, Cairo, Egypt, December 1995.
- 20- "On The Basis Of Establishing The First EDM - Calibration Base Line In Egypt"- The Forth national Conference of Al-Azhar University, Cairo, Egypt, December 1995.
- 21- "Potential Of GPS Observations In The Egyptian National Gravity Standardization Network (ENGSN - 97) For Geoid Computations And Associated Comparisons"- The Forth National Conference of Al-Azhar University, Cairo, Egypt, December 1995.

- 22- "Merits of GPS - GIS Integrated Systems for Building Efficient Urban Mapping, International Symposium on GIS / GPS", Turkey, 1997.
- 23- "The use of high precision gravity data for detecting ground water resources in the Southern Valley of Egypt, IWRA Conference", Canada, 1997.
- 24- "The Problems of the Cadastral Maps in Egypt, International Surveying Conference", Bulgaria, 1997.
- 25- "Potential of Egyptian National Gravity Standardization Network for Geoid Determination", XVIII Brazilian Congress of Cartography, Brazil, 1997.
- 26- "Performance of relative gravity meters and processing software over the new absolute gravity stations in Egypt", The fifth International conference of Al-Azhar University, Cairo, 1997.
- 27- "The role of surveying and mapping operations in developing an integrated Geographic Information System (GIS)", Arab Water 98 Conference.
- 28- "Efficiency of GPS Techniques in National Applications", Proceedings of the International Conference on Integrated Management of Water Resources in the 21st Century , Cairo, November 21-25, 1999.
- 29- "Quality Control Measures for the Egyptian National Gravity Standardization Network" , Proceedings of The Second International Conference of The Civil Engineering, Helwan University, Cairo, 1-3 April 1999.
- 30- "The Role Statistical Analysis in the Adjustment of GPS Measurements", IUGG 99 Conference, Birmingham 18-30 July, 1999.
- 31- "Integration of SPOT Satellite Images and GPS for Producing Topographic maps", Proceedings of the International Conference on Integrated Management of Water Resources in the 21st Century , Cairo, November 21-25, 1999.
- 32- "Assessment of different techniques for SPOT Imagery Rectification for Egypt", Proceedings of the International Conference on Integrated Management of Water Resources in the 21st Century , Cairo, November 21-25, 1999.
- 33- "- Some Remarks on the Accuracy of Precise Levelling in Egypt", IUGG 99 Conference, Birmingham 18-30 July, 1999.
- 34- "Consistency of GPS Surveys Obtained Using Different Geodetic Receivers And Processing Software", IUGG 99 Conference, Birmingham 18-30 July, 1999.

SIGNIFICANT PUBLICATIONS AND REPORTS

- Participate in about 90 scientific papers & textbooks and reports concerning geomatics, gravity, water management, drainage.... etc.