



## General Data

**Position:** Emeritus Professor

**Name:** Nadia Abdel Hamied Mansour Alsaied El-Bahnasawy

**Date and place of birth:** 6.12.1946, Al-Sharkia, Egypt      **Nationality:** Egyptian

**Civil status:** Widow

**Education:**

1981-1988	Ph.D. in Mathematical Modeling & Land Drainage, Faculty of Agriculture Engineering Department, Cairo University, Egypt.
1973-1975	M.Sc. in Water Management, Wageningen University, Netherland.
1967-1971	B.Sc. in Civil Engineering, Faculty of Engineering, Cairo University, Egypt.

**Languages:** Mark 1 to 5 for competence, where 5 is the highest

	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
Arabic		Mother tongue	
English	4	4	4

**Memberships:**

- Egyptian Syndicate of Engineers
- The Engineering Egyptian Society
- The Irrigation Egyptian society

**Years of professional experience:** 41 years      **Years with firm:** since 1972

**Key qualifications:** Experience in the field land drainage; field investigation, design, implementation, inspection and rehabilitation of drainage networks. Developing, using and verification of mathematical models in the scope of water management science. Experience in the field of Nile Basin hydrology and Hydrological studies of Egyptian desert wadis and design the recommended flash flood protection, storage or recharge hydraulic engineering works. Minor experience in Hydro-geological, geophysical and ground water studies. Write and revise technical papers, reports and supervising thesis of academic research in the different pre-mentioned studies.

**Country experience:** Egypt



## Employment Record & Experience

- 2006 – Present - Emeritus Professor, Water Resources Research Institute
- 1998 – 2006 - Deputy Director of Water Resources Research Institute  
"Type of works: supervising the research work plan of the institute and all the field research activities in the four departments, Hydrology, Hydro-geology, Nile Basin and Water Resources development and Planning Technical reporting of study projects".
- 1975 – 1998 - Researcher, Drainage Research Institute, National Research Center  
"Type of works: Research & design Engineer, researcher- Assistant Research Prof. & Head of Evaluation Division; Study drainage technology & criteria in pilot areas in different parts of Egypt applying new technology and evaluating drainage system efficiency & rehabilitation".
- 1972 – 1975 - Civil Engineer, Egyptian Public Authority for Drainage (EPAD)  
"Type of works: Soil and Water analysis, field measurements of hydraulic and hydro geological parameters".

## Rewards & Certificates:

- Reward of 1000 L.E. & Appreciation Certificate of Environmental Development, 1996 from The Academy of Scientific Research.
- Appreciation Certificate For the Best Ph.D. Thesis From the Egyptian Universities in the Field of Irrigation, Drainage and Environmental Conservation, 1995 from the Ministry of Public Works & Water Resources.
- Appreciation Certificate For Invention, 1996 From Arabian Authority For Industrialization.
- Innovation Awards Prize For Environment 2002 From ADEME - Engines Tech. & Air Plus, Lyon, France.

## Skills & Training

### Training:

- 1- System Analysis of Problems in Irrigation, Drainage and Flood Control, ICID, 30 Nov. – 14 Dec. 1981, New Delhi, India
- 2- Analysis of Water resources System 16 – 21 Jan., 1982, Technological Planning Program, Cairo University, Egypt.
- 3- Management of water resources, Dec.1979, Cairo, Egypt
- 4- Irrigation data & project management, Colorado State University, July, 1988, USA.
- 5- Performance Assessment & computer applications for irrigation & drainage systems, NWRC, Jan 1995, Cairo.
- 6- Principles of water quality management, DRI, Jan 1994, Cairo.
- 7- Refresher course on land drainage in Egypt, Dec.1994, Cairo.



- 8- Water Resources Management, Seoul & Daejeon, Korea, Nov.26-Dec.13, 2004.
- 9- African Technology policy Studies Network (ATPS) Science, Technology, Water and Environment in Africa Baseline Studies on Sustainable Water Catchments Management: Understanding Attitudes, Values & Behavior 16-18 May 2005, Nairobi, Kenya.

## Publications

The number of publications is about (50) published paper, among them:-

- (1) "Water Resources Management In Remote And Isolated Area", Medhat A. El-Bihery, Entesar A.S. El-Ghorab N.A. El-Bahnasawy, M. Abdel Motalab, 12th World Water Congress of IWRA Water for Sustainable Development- Towards Innovative Solutions, 22-25 Nov., 2005. at New Delhi, India.
- (2) "Dynamic Properties And Subsurface Structures Of The North-Western Part Of The Nile Basin", Osama Abdel-Raouf, Hatem M. Mekhemer, A.A. El-Ashal N.A. El-Bahnasawy, M. Abdel Motalab, Case Study; Toshka Spillway Control Barrage Site Int. Conf. Of UNESCO Flanders Fit FRIEND/NILE Project, Towards A Better Cooperation, 12-15 Nov., 2005m Sharm El-Shiek, Egypt.
- (3) "Artificial Groundwater Recharge as a Potential Solution for Seawater Intrusion in El-Arish Area", Gamal Kotb, Hatem M. Mekhemer & N. A. El Bahnasawy, Int. Conf. Of UNESCO Flanders Fit FRIEND/NILE Project, Towards A Better Cooperation 12-15 Nov., 2005, Sharm El-Shiek, Egypt.
- (4) "Socio-Economic And Environmental Studies In Wadi Watier, Sinai, Egypt", Sanaa Israel, Hatem M. Mekhemer, N.A. El-Bahnasawy, M. Abdel Motalab, World Conference" Energy for Sustainable Development; Technology Advances & Environmental Issues", Nile Hilton, Cairo, Egypt, 7-9 Dec., 2004
- (5) "Dynamic Properties of Soil Formation, Rocks And Subsurface Structures of Toshka Barrage Region", O. Abdel Raouf, Hatem M. Mekhemer, A. El-Ashal, N.A. El-Bahnasawy, M. Abdel Motalab, World Conference" Energy for Sustainable Development; Technology Advances & Environmental Issues", Nile Hilton, Cairo, Egypt, 7-9 Dec., 2004
- (6) Simulation of Storage at Toshka Depressions in High Floods" (in Arabic language), M. Mahahed, G. Kotb, N.A. El-Bahnasawy & M. Abdel- Motaleb, Association of Returned Egyptian Experts & MWRI Joint Conference; theme: Toshka 2004, A progress Report. AUC, Cairo 3-4 Jan 2004.
- (7) "Drains And Flash Flood Protection In Upper Egypt", Gamal Kotob, Entesar A. S. EL-Ghorab, N. A. El-Bahansawy & M. Abdel Motaleb, First African Regional Conference On Drainage Challenge And Opportunities For Enhancing Quality Of Life, 6-9 Dec., 2004, Cairo, Egypt.
- (8) Hydrology Of The Nile Drainage Basin", A.Hassan Fahmi, Entesar A. S. El-ghorab, N. A. El-Bahansawy & M. Abdel Motaleb, First African Regional Conference On Drainage Challenges And Opportunities For Enhancing Quality Of Life , 6-9 Dec., 2004, Cairo, Egypt.
- (9) "Water Resources in the Egyptian Deserts" (in Arabic language), N. A. El-bahnasawy & M. Abdel motaleb, First Egyptian Syrian Conference on Agriculture & Food In The Arab World, Opesticles And Prospective, 8-11 Dec.2003 University Of EL-Menia, Egypt.
- (10) "Chemical Analysis For Thermal Springs To Evaluate The Geothermal Resources In Southern Sinai, Egypt", Hatem M. Mekhemer, Magda Edries, N. A. El-Bahnasawy & M. Abdel Motelb, Water Science Of National Water Resources Center (NWRC) Magazine, 2002.



- (11) "Criteria To Expect The Water Bearing Limestone Using Geoelectrical Resistivity Method", Osama Abdel-Raouf, M. A. El-bihery N. A. El-Bahnasawy & M. Samir M. Farid, First Regional Conference On "Prespectives Of Arab Water Cooperation, Challenges, Constrains & Opportunities", October, 12-14, 2002, Cairo, Egypt.
- (12) "Methods of Treatment, Irrigation; the Egyptian Experience In The Reuse of Sewage Water" (in Arabic language), N. A. El-Bahnasawy, Workshop of Reuse of gery Water for Irrigating backyard gardens of limited income families, Damasscns, Serya; 10-14 March 2002.
- (13) "Development Atmosphere between Scientific Research And Social Ideology" (in Arabic language), N.A. El-Bahasawy & M. Samier M. Farid, The Second Arabic conference; Universities and Research Firms and its role in the Activities of Research & Development, Organized by the Academy of Scientific Research & Technology and the union of Arabic Scientific Research Council Cairo 11-13 Feb. 2002.
- (14) "Erosion Classification Of Natural Streams In East Sinai", Abdel Aziz F. Zaki, Gamal Kotb, N. A. El-Bahnasawy & M. Samir M. Farid, 8th Int. Symposium On River Sedimentation, 3-5 Nov., 2001 Cairo, Egypt.
- (15) "Quantification Of The Sediment Load In Lake Nasser", N. A. El-Bahnasawy, 8\* Int. Symposium On River Sedimentation, 3-5 Nov., 2001 Cairo, Egypt.
- (16) "Environmental Impacts On Ground Water Quality In El-Tur Area, South' Sinai Egypt", Hatem M.Mekhemer, N.A. El-Bahnaswy & M. Samir M. Farid, 6th Int. Conf. On .Potable Water Management And Water Treatment Technologies., Aquatec 2001, 21-23 Feb, Cairo, Egypt.
- (17) "Feasible Approach For Indirect Use Flash Floods In Sinai", Gamal Kotb, Hatem Mekhemer, N.A. El-Bahnaswy & M. Samir M. Farid, Int. Conf- On Wadi Hydrology, 21-23 Nov. 2000, Sharm El-Sheikh, Egypt.
- (18) "Evaluation Of Adsorbing Converting Filter For Exhaust Gases", N.A. El-Bahnaswy & A. A. El-Bahnasawy, Journal Of Environmental Research, Vol. 2, PP: 91-101, 2000, Zagazig University, Egypt.
- (19) "Water Quality Control Option For Improper Utilization From Well Field, Egypt", Gamal Abd-Allah, N.A. EL-Bahnaswy & M. Samir M. Farid, Int. Conf. On Wadi Hydrology, 21-23 Nov. 2000, Sharm El-Sheikh, Egypt.
- (20) "Guid-Lines To Delineate Ground Water Level Monitoring Network For Hydrological & Hydrological Issues", Medhat A. El-Bihery, N.A. El-Bahnaswy & M. Samir M. Farid, Int. Conf. On Wadi Hydrology, 21-23 Nov. 2000, Sharm El-Sheikh, Egypt.
- (21) "Assessment Of The Available Aquifers For Development Of Wadi Gharandal, Area, South Sinai, Egypt", Abdel-Hafez h. M., A. M. Nassef, N. A. El-Bahnasawy & M. Samir M. Farid, Int. Conf. On Wadi Hydrology, 21-23 Nov. 2000, Sharm El-Sheikh, Egypt .
- (22) "Sediment Sensor For Wadis, Channels & Lakes", N. A. El-Bahnasawy, Int. Conf. On Integrated Management Of Water Resources in The 21", Century, Cairo, Egypt, Nov. 2.1-25,1999 No. 82. P:936-845, Cairo, Egypt.



- (23) "An Applicable Strategic Water Policy In Sinai", Gamal Kotb, A. H. Fahmi, N.A. El-Bahnaswy & M. Samir M. Farid, Int. Conf. On Integrated Management Of Water Resources In The 21<sup>st</sup> Century, 21-2 Nov., 1999, No. I, P: 1-12, Cairo, Egypt.
- (24) "Role Of Woman In Environment Conservation", N.A. El-Bahnaswy, Int. Muslim Women Union Conf. Khartourn, Sudan, 19-21 April, 1999.
- (25) "Adsorbing Converting Filter For Exhaust Gases", N.A. El-bahnaswy, A. A. El-Bahnaswy & S. M. Younis, The Firsjt Inter. Conference "Role Of Engineering Towards Better Environment" 17-20 Dec., 1996, University Of Alexandria.
- (26) "Water Management Of Optimal Crop Yield With Reference To Soil Type And Irrigation Method", G. A. Bakier, N.A. El-Bahnaswy, N. A. Ainer & M. Y. J. Purwanto Proceeding Of The Second Conference On Field Irrigation And Meteorology 2-4 Jan., 1995.
- (27) "Rate Of Constructing An Efficient Pipe Drain System Using Laser Equipment", N.A. El-Bahnaswy, G. M. Nasr, A. Z. Taieb & A. S. El-raee Proceeding Of NILES 1994 (International Conference Of The National Institute Of Laser Enhanced Sciences, Fac. Of Science. Cairo Univ., March 26-30, 1994).
- (28) "Environmesstal Effects Of Field Drainage", N.A. El-Bahnaswy Proc. Of Al-azhar University Faculty Of Engineering 3rd International Conference, Dec. 1993 Vol. 4, P:323-332).
- (29) "Water In Quran", N.A. El-Bahnaswy & A. E. Soliman, Proc: Of Al-azhar University Faculty Of Engineering 3rd International Conference, Dec. 1993 Vol. 4, P:323-332).
- (30) "Use Of Aerial Photographs In Estimating Of Seepage Areas Along Ismaelia Canal", N.A. El-Bahnaswy & F.G.I. El-ebabi Misr Society of Agriculture Engineering, Vol. 9 No. 4, Oct. 1992, P: 700-714.
- (31) Evaluation of The Functioning of Drainage System For More Realistic Drainage", N.A. El-Bahnasawy, Ahmed Abud, Ruiten Berg & F.W. Croon Pros,. 5th Intr. Workshop, Lahore, Pakistan, Vol. 2, ICID-CILD, 1992, 241-252.
- (32) "The Study Of The Leaching Process In The Pounded Water Case Using The Electrolyte Tank", N.A.El-Bahnaswy, ICID, 8<sup>th</sup> Afro-Acian Regional Conference, Bankok, 1991, A32, P: 339-35.
- (33) "Experimental Laboratory Simulation Of The Leaching Of Salts Form an Aggregate Of Cracking Clay Soil", A. Kamphorst & N.A. El-Bahnaswy, ICID, 8th Afro-Acian Regional Conference, Bankok, 1991, A23, P: 233-239.
- (34) "Mathematical Model For Water Table Behavior By Tile Drainage System Assisted By Natural Drainage", N.A. El-Bahnasawy & M. H. Amer, ICID, 8th Afro-Acian Regional Conference Bankok 1991 A48 P: 541-553.