

CURRICULUM VITA
of
Prof. Dr. Bahgat El-Sayed Ali

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Scientific Degrees :

1. B.Sc. (Soil Science), Faculty of Agriculture Cairo University, 1967
with final grade "Very Good" and Second Honor Grade.
2. M.Sc.(Agricultural Microbiology), Faculty of Agriculture Cairo
University, 1979. The title of M.Sc thesis was "Effect of Fertilization on
Microbial Activities in Soils and its Relation to Nitrogen Balance".
3. Ph.D.(Agricultural Microbiology), Faculty of Agriculture Ain Shams
University, 1985. The Title of the Ph.D. Thesis was "Bioenergy From
Organic Wastes For Rural Egypt".

Present Occupation:

- Prof. Emeritus of “Organic manure production” Central lab of Organic Agriculture., Agricultural Research Center.
- Consultant of National Project for Organic Agriculture
- Executive director of “Integrated systems for Agricultural Wastes Management Unit” and responsible for compost production and Organic Farming.
- Executive director of “Production Unit of Preparations Used in Organic Agriculture”.

Previous Experience:

- 1- Director of Central Lab. of Organic Agriculture, Agricultural Research Center, June 15. 2004 - Oct. 15.2006.
- 2- Deputy Director of Central Lab. of Organic Agriculture, for Research and Development, Agricultural Research Center. Feb. 9, 2003 – June 15, 2004.
- 3- Chief of Researchers, Agricultural Microbiology, Recycling of Organic Wastes and Bio-energy Section, Agricultural Microbiology Research Department, Soils, Water and Environment research Institute, Agricultural Research Center, 1995-2003.
- 4- Senior Researcher of Soil Microbiology, Recycling of Organic Wastes and Bio-energy Section Agricultural Microbiology Research Department, Soils, Water and Environment research Institute, Agricultural Research Center, 1990-1995.
- 5- Researcher of Soil Microbiology, Recycling of Organic Wastes and Bio-energy Section, Agricultural Microbiology Research Department, Soils & Water Research Institute, Agricultural Research Center, 1986 - 1990.
- 6- Associate Researcher of Soil Microbiology, Agricultural Microbiology Research Department, Soils & Water Research Institute, Agricultural Research Center, 1981 - 1986.

7- Researcher Assistant of Soil Microbiology, Agricultural Microbiology Research Department, Soils & Water Research Institute, Agricultural Research Center, 1974 - 1981.

8- Agronomist of Agricultural Microbiology Research Department, General Organization of Soils, Ministry of Agriculture, 1968 - 1974.

- **Consultant of:**

- Consultant of the Desert Development Center, American University in Cairo for recycling of agricultural wastes, compost production and organic farming.

- Egyptian Company for Agricultural Residues Utilization (ECARU), for Production of Compost from Agricultural Residues and Municipal Soil Wastes. From 1996.

- Egyptian-Swiss Development Fund as special consultant in Agricultural waste management and compost production at Fayoum governorate (Feb - May 2006) and Aswan Governorate during 2003.

- El Arabia for Compost Production (2005 - 2006).

- Eco-ConServ Environmental Services for "Recycling of Agricultural Residues "Part time during the period form 2000 - 2006.

- Integrated development center (IDC) for training environmental committee on recycling of agricultural residues at Aswan and Beni-Sweef governorate during 2003 - 2005.

- AL Hoda Company for Organic products. (1999 - 2003)

- AL Kalila for production of Compost from Poultry Manure (BIO-Green). (1996 - 2001)

- MAB - Complex for Food production Company, for production of Compost from Poultry Manure (BIO- MAB). (1998)

- Misr El Salam International Organic Fertilizer, for production poultry manure pellets. (2001)

- Egyptian Growers Hammouda - Hashem Brothers , for production of poultry manure compost.

Membership of Scientific Societies:

- 1- Egyptian Society of Applied Microbiology.
- 2- Egyptian Society of Soil Science.

Training Courses Attended :

1. Regional training course on "Fundamental Research on Microbial Biomass Production With Relation to Environment " November, 1976.
2. International Training Course on "Advanced Training for Crop Farming Techniques ", June 30 - September 19, 1980, Turin, Italy.
3. Regional training course on "Prospective of Technologies and Techniques of Applied Microbiology and Waste Recycling ", March, 1982.
4. Workshop on "Renewable Energy for Desert Development", Desert Development Center, The American University in Cairo, Egypt April 26 - 30, 1986.
5. Training course on "Solid Waste Management through Composting and Sanitary Landfill ". Sponsored by WHO and Cairo Cleaning and Beautification Authorities. Cairo, Egypt, March 29 - April 9, 1987.
6. Post Doctor Training on: " Biogas Technology with Special Reference, Two-Phase Anaerobic Fermentation and Biological Degradation of Heavy Organic in Contaminated Soils ". Environmental Research Department , Institute of Gas Technology (IGT) Chicago, ILLINOI, USA. January 14 to April 13, 1990.
7. National Workshop on Effluent Reuse. Sponsored by National Organization for Potable Water and Sanitary Drainage (NOPWASD), in Cooperation With World Health Organization (WHO). Cairo 23 - 25 September, 1991.
8. International Training Course on " Solid Waste Management and Night Treatment II " (Course ID : J-94-0011) at Tokyo , Japan Environmental Sanitation Center , from May 23 to July 22 , 1994 Organized by The Japan International Cooperation Agency (JICA) under The International Cooperation Program of The Government of Japan.

9. International Training Course on "Controlled Microbial Composting For Organic Farming ". Linz , Austria ,Nov. 2 - 9 , 1997.
10. International Training Program On "Organic Agriculture Development' In Sweden, July, 29-August 18,2006 and Kenya, January 9-22 ,2007.
11. Advanced International Training Program of the Swedish international Training Agency (SIDA) in Johannesburg, South Africa, June 13-21 , 2011.

Scientific Visits outside Egypt:

1- The People's Republic of China, (9 - 27 Sep. 1981):

Within a study tour organized by FAO and financed by FAO / MOA project "Biogas for Rural Population ". Member of biogas researchers team to China, Philippines and India .The group visited the biogas digesters in different places and Biogas Research Institutions, iBeijing, Sichuan and Guanzhou Provinces.

2 - Republic of the Philippines (27 Sep. - 7 Oct. 1981):

During a FAO study tour to the Philippines for visit the biogas activity in different farms. Following institutions and places were visited : Manila Province, Cebu Province AntipoloHills, Maya Farm, and Los Banos .The Philippine Council for Agriculture and Resources Research. The International Rice Research Institute (IRRI).

3 - Republic of India (7 - 14 Oct. 1981)

During the FAO study tour the following places and institutions were visited to investigate their activities in the field of biogas research and technology:

- 1- New Delhi Province: (a) Ministry of Agric. (b) Indian Research Institute.
- 2- Lucknow Province : House hold biogas digesters.
- 3- Bangalor Province : University of Agric. Science.
- 4- Bombay Province : Khadi and Village Industries Commission.

4 - The People's Republic of China (18 Nov. to 18 Dec. 1983)

Member of Egyptian Team organized by Ministry of Electricity and Energy, to visit small and large scale biogas digesters generating electricity in

Beijing, Jiangsu, Nanhuei. Shanghai, guangzhou and Chengdu Sichuan Province.

5 - Walt Disney World, Orlando, Florida, USA (12 - 14 March 1990).

During training at The IGT, I had the opportunity to visit The Experimental Test Unit at WDW, Orlando, Florida. The research at the ETU focused on an integrated biomass and waste anaerobic digestion process for pollutant removal biomass production and high content of methane. The design and operation of the ETU has a high degree of flexibility under completely controlled parameters. The ETU design allows for testing of different feeding materials, digester configuration and performance.

6 - Tokyo Japan May 23 to July 22, 1994.

To acquire knowledge and techniques about various alternatives of solid waste treatment and disposal the training course program include field practice on composting of solid wastes, incineration and sanitary land filling. Also, field visit to waste water treatment systems.

List of Publications:

More than 30 publications

Experience in scientific application:

- 1. Alaa El - Din, M.N., El - Shimi, S.A. Mahmoud, M.H., Abdel - Aziz, I.M., El- Housseni, M.m. and Ali, B.E. and Anton. G. (1982).**Progress report on the FAO / Moa project TCP / EGY0003 Biogas for rural population. Presented to FAO. March.
- 2. Alaa El-Din, M.N., Hussain, Y.H., El-Shimi, S.A. and Ali, B.E. (1983).**Biogas technology from organic wastes of Army Camps as a source for energy, manure and pollution control. (In Arabic) , Egypt December.
- 3. Alaa El-Din, M.N., El-Shimi, S.A. and Ali, B.E. (1983).** Production of energy and manure from rabbits wastes. Study prepared for "BARARY" Company. (In Arabic) Egypt, December.
- 4. Khalil,E.E., Alaa El-Din, M.N., El-Shimi, S.A., Hanavy, M.,Abdel Aziz, I., El-Housseni, M. And Ali, B.E., Holdren J.and Carroll, F.(1986).** Progress report No.1 on "Village level energy technologies in irrigated agriculture. Egypt .April.

5. **Khalil, E.E., Alaa El-Din, M.N., El-Shimi, S.A., Hanavy, M., Abdel Aziz, I., El-Housseni, M., Ali, B.E., Holdren, J. and Carroll, F. (1986).** Progress report No.2 on "Village level energy technologies in irrigated agriculture. Egypt, Nov.
6. **Khalil, E.E., Alaa El-Din, M.N., El-Shimi, S.A., Hanavy, M., Abdel Aziz, I., El-Housseni, M., Ali, B.E., Holdren, J. and Carroll, F. (1987).** Progress report No.3 on "Village level energy technologies in irrigated agriculture. Egypt, Jan.
7. **Alla El-Din, M.N., El-Shimi, S.A., Ali, B.E. and El-Housseni, M. (1987).** Progress report No.1 "Development of biogas digester for rural Egypt". Presented to National Academy of Science. Egypt, Feb.32 p.
8. **El-Shimi, S.A. and Ali, B.E. (1988).** Preliminary study of the feasibility for introducing the biogas technology to Fayoum Governorate. (In Arabic), 13 p.
9. **El-Shimi, S.A. and Ali, B.E. (1988).** Preliminary study of biogas system in Tokh - Tambasha village. Study case for livestock farm and households.
10. **El-Shimi, S.A., Ali, B.E. and El-Housseni, M. (1988).** Progress report No.2 on "Biogas technology for rural Egypt. Tokh - Tambasha village, Minufiya, CEMARP.50 p.
11. **Ali, B.E., El-Wekeel, A.F. and Shehata, S.M. (1988).** Evaluation of dried poultry manure as organic fertilizer. Report presented to " Egglan Farm for Food Security" El- Zarka, Damietta. Jan. (In Arabic), 21 p.
12. **Ali, B.E., El - Sayed S.A. and El-Wekeel, A.F. (1988).** Preliminary study of "Drainage water and its reuse at Talkha". Study presented to "El-Nasar Co. for Fertilizers and Chemical Industries ". Feb. (In Arabic), 29.p.
13. **Shehata, S.M. and Ali, B.E. (1988).** Production of soil conditioners and organic fertilizers from the agricultural residues. Report presented to " El-Zahraa for Agricultural Development". August, (in Arabic). 27 p.
14. **Ali, B.E. (1989).** Production of organic fertilizers using Earth Worms. Feasibility study presented to "El-Zahraa for Economical Development". Sep. 23 p.

15. **El - Shimi, S.A., Ali, B.E. and El - Housseni .M. (1990).** "Final Report on development of biogas digester for rural Egypt" Presented to National Academy of Science .Cairo, Egypt.June.34 p.
16. **Ali, B.E and El-Hagggar, S.M. (1990).** Economics of recycling of agricultural residues in South Tahreer Farm for production of biogas and manure .Report presented to Desert Development Center (DDC), The American University in Cairo (AUC), 10 p.
17. **El-Hagggar, S.M. and Ali, B.E. (1990).** Waste recycling in the South El-Tahreer Farm of the Desert Development Center, (DDC) The American University in Cairo (AUC), 16 p.
18. **Shehat, S.M. and Ali, B.E. (1991).** Damietta Co - Compost Project.Report presented to "Construction Management Consultant Sabbour associates ". June, 29 p.
19. **Ali, B.E. (1991).** Recycling system of integrated plant, animal and fish farming .Report presented to Desert Development Center, AUC, 14 p.
20. **El-Hagggar, S.M. and Ali, B.E. (1993).** An integrated system using renewable resources for the development of new communities. Interdisciplinary Research Activity, The American University in Cairo and Soils & Water Research Institute, Agricultural Research Center.
21. **Ali, B.E. and El-Shimi, S.A. (1993).** Recycling of solid and liquid wastes in Shams Safaga Hotel and Village to produce irrigation water bioenergy and compost.
22. **Shehata S. M. and Ali B. E. (1993).** Evaluation of " FyreZyme "in Biodegradation of Solid Wastes.Report presented to Environmental Quality International (EQI) Egypt.27 p.
23. **Shehata S. M. and Ali, B. E.(1994).** Production of compost from municipal solid wastes by Egyptian traditional method.Report presented to "The Desert Development Institute, Japan.28 p.
24. **El-Halwagi, M.M; Gaber,A.H; Safwat, M.S.; El-Sayed, S.A; Ali,B.E. and Sherif, H.O.(1995).** Study on recycling of food processing wastes in Egypt. Study presented to Technical &Technological Consulting and Research Fund. (TTCSRf) In Arabic, 191 p, and English 172 p.

25. **El-Halwagi, M.M; Gaber,A.H; Ali, B.E.; Safwat, M.S.; El-Sayed, S.A. and Sherif, H.O.(1995).** Review on "Septage co-composting and sullage treatment in small Egyptian villages.Science & Technology Cooperation (Project 263 - 0140.1) 180 p. In English.
26. **El Shimi, S.A and Ali, B.E. (1997).**Survey of the quantities and quality of the agricultural residues and its utilizations. Report presented to "Arab Organization of Agriculture and Development. (AOAD) 52 p. In (Arabic).
27. **Shehta, S.M; Hamdi, A.M. and Ali. B.A. (1997).** Production of Controlled Microbial Compost for Organic farming. Case study presented to "UGEOBA " El-Nobarria, 18 p. In Arabic.
28. **Ali, B.E.(1998).** Improvement of the quality of poultry manure compost generated by Facco aerobic composting plant at Kalila Farm.Final report presented to " Kalila Farm for Poultry Production."
29. **Shehata, S.M. and Ali, B.E. (1999).**Compost production , comparative examination of data and reporting Presented to the Desert Development Institute , Japan..
30. **Shehata,S.M. and Ali,B.E. (1999).** Production of Egyptian Compost. Final report presented to "Egyptian Company for Agricultural Residues Utilization " (ECARU).
31. **Ali,B.E.(1999).** Production of aerobic compost from poultry wastes at MAB Farm.El-Nahda , Alixandria.

Books:

- Shehata, S.M., El-Zanaty, M.R. and Ali, B.A. (1993).**
 Organic Manure and New Reclaimed Soils. El- Dar El- Arabia for Publications and Distributions.
 I.S.B.N : 977-258-038-1. 149 p. (In Arabic).

Pamphlets:

- **Ali, B.E. (1995).**
 Organic manures
 General Organization for Agricultural Culture . 31 p (In Arabic).
 I.S.B.N. 9-77-5-90-94-4.

- **Ali, B.E., Shehata, S.M. and Hamdi, Y.A. (1999).**

Production and Utilization for Controlled Microbial Compost for Organic Farming. General Organization of Agricultural Culture. In press (In Arabic).

Leaflets:

- **Ali, B.E. (1995).**

Organic manures.

Central Administration of Agricultural Guidance (In Arabic).

No. 242.

- **Ali, B.E. (1995).**

Compost Production.

Rural Development Through Integrated Wastes Mangement Project. (In Arabic).

- **Ali, B.E. (2009).**

Compost.

Central Administration of Agricultural Guidance (In Arabic).

No. 18/2009.

M.Sc. and Ph.D. Thesis Supervision:

Published:

1- **Aziza Mohamed El- Kasaby (1992).**

Studies on the microorganisms located at oil exploration fields and its biodegradation effects on the complex organic matters polluting these regions. Faculty of Science Al Azhar Univ. Ph.D.

2- **Aly El-Din Ahmed Amer (1993).**

Treatment of sewage sludge to produce energy and fertilizer. Faculty of Agric. Moshtohur , Zagazig Univ. Ph.D .

3- **Khadiga El-Gabaly (1993).**

Biochemical Studies on Ethanol Production. Faculty of Agric. Cairo Univ. M.Sc.

4- **Gamal Abd El-Hakem (1995).**

Microbial and biochemical characteristics of manure produced under anaerobic fermentation .Faculty of Agric Al-Azhar Univ.M.Sc.

5- Soha Sayed Mohamed (1996).

Utilization of biogas technology in the conservation of natural resources in the African developing countries. The African Institute for Studies and Research, Cairo Univ. M.Sc.

6- Ashraf Mohamed Essa (1996).

Osmoregulatory metabolites accumulated in halophilic algae grown on organic wastes. Faculty of Science, Cairo Univ.M.Sc.

7- Hoda Mohamed El-Shaboury (1996).

Ecological effects of amendment with activated sludge on soil and growth Soybean plant. Environmental Research Institute, Ain Shams Univ. M.Sc.

8- Manal Abd -Allah Hassan (1997).

Protein and biomass production from organic wastes by microalgae. Faculty of Science, Cairo Univ. M.Sc

9- Hoda Hamed Sonose (1997).

Biological treatment of waste water effluents using algae. Faculty of Science , Cairo Univ.M.Sc.

10- Amal Ibrahim Hanna (2000).

Enhancement of microbial degradation of hydrocarbons in contaminated soils. Faculty of Agric. Cairo Univ. M.Sc.

11- Azza Ahmed Mohamed (2004).

Influences of algal growth on physical and chemical characters of soil. Faculty of Science, Zagazeg Univ.Ph.D.

12- Soha Sayed Mohamed (2005).

Utilization of micro-algae from Chad Lake for feed and fertilizer production .African Institute For Studies and Research , Cairo Univ. Ph.D.

13- Farida Mostafa Abd El-Gaid Ibrahim Abou-zaid(2012).

Physiological response of some economic plants to microbial compost application. Al-Azhar University, Faculty of science (girls branch) microbiology department.