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*Menoufia University, Faculty of Agriculture
Department of Agric. Eng. & Biosystems
Co./ Martin Luther University, Halle sale, Germany
And King Faisal University, Saudi Arabia*

CURRICULUM VITAE

Prof. Dr. Ayman Hafiz Mohamed Amer Eissa, (PhD)

Name Ayman Hafiz Mohamed Amer Eissa
Date of birth 18/9/1964
Place of birth Tanta
Nationality Egyptian
Sex Male
Martial Married
Profession Dean of the Faculty of Agriculture and Professor of Food Process and Biosystems Engineering
Address: Home Shibin El-Kom, Minofiya, Egypt.
Tel. 002/048 /2086077
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Business Department of Agricultural and Biosystems Engineering, Faculty of Agriculture, Menoufia University, Shibin El-Kom, Egypt.
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Permanent address:

Department of Agricultural and Biosystems Engineering, Faculty of Agriculture, Menoufia University, Shibin El-Kom, Egypt.

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Education

Oct, 1970 to June, 1982: Primary, preparatory and secondary schools at Tanta schools.

B.Sc. Minoufiya University, June 1986.



Shibin El-Kom, Egypt.

Major: Agricultural Mechanization.

M.Sc. Menoufia University, May 1992.

Shibin El-Kom, Egypt.

Major: Agricultural Engineering.

Title of Thesis: "POSSIBILITY OF USING THE DISCS AS FURROWERS AND INTER-ROW CULTIVATORS FOR SOME ROW CROPS".

Ph.D. Channel system with Martin-Luther University, Germany, Since September 1996 Until November 1998.

Major: Agricultural Engineering

Title of Dissertation: "ENGINEERING FACTORS AFFECTING HANDLING AND LOSS REDUCTION OF EGG"

Professional Experience

Nov, 1986 to May, 1992

Demonstrator

Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University, Shibin El-Kom, Egypt.

May, 1992 to Sep, 1996

Assistant Lecturer

Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University, Shibin El-Kom, Egypt.

Sep, 1996 to Nov, 1998

Fellowship

Faculty of Agriculture, Martin-Luther University, Halle-Wittenberg, Adam-Kuckhoff Straße 35, D-06108 Halle (Saale), Germany.

Feb, 1999 to June 2005

Lecturer

Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University, Shibin El-Kom, Egypt.

June, 2005 to until now

Associate

Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University, Shibin El-Kom, Egypt.

Professor

Oct., 2006 to Jan., 2007

**Visiting Research
(Post doctor)**

Faculty of Agriculture, Martin-Luther University, Halle-Wittenberg, Adam-Kuckhoff Straße 35, D-06108 Halle (Saale), Germany.

With Major field: (Biosystems Engineering and Quality control)

Feb., 2010 to Sep., 2010

Supervisor

Center of Marketing Service University, Minoufiya University, Egypt.

June, 2010 to 23 Sept. 2010

Professor

Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University, Shibin El-Kom, Egypt.

Sept. 25, 2010 to June, 2015

Professor

Department of Agricultural Systems Engineering, College of Agriculture and Food Sciences, King Faisal University, P.O. Box 420, Al-Hassa 31982, Saudi Arabia.

Jan. 9, 2014 to June, 2015

Professor

Member of the Board of Water Studies Centre - King Faisal University - Kingdom of Saudi Arabia. Based on the decision of Mr. Prof. Dr. Rector on 9/1/2014.

June, 2015 to until now

Professor

Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University, Shibin El-Kom, Egypt.



Feb, 2016 to Feb, 2020 General Supervisor	Center for Strategic Studies and Leadership Development, Minoufiya University, Shibin El-Kom, Egypt.
Feb, 2016 to Oct 2019 Head of the Department	Department of Agricultural and Biosystems Engineering, Faculty of Agriculture, Menoufia University, Shibin El-Kom, Egypt.
Sep, 2019 to until now Dean	Faculty of Agriculture, Menoufia University, Shibin El-Kom, Egypt.

Objectives

- ❖ To work in cooperative team looking for successful future.
- ❖ To develop my research career through cooperative work.
- ❖ To help in facilitating the departmental affairs.
- ❖ To promote the Food Process Engineering field.
- ❖ To develop a “new look “to the Food Process Engineering field.
- ❖ Update the science of Food Process Engineering.
- ❖ Enhance the teaching of Food Process Engineering.
- ❖ Foster the employment of Food Process engineering graduates.
- ❖ Bridge the gap between the Food Process Engineering field and the private sector.
- ❖ Enhance student social and communications abilities for the purpose of employment.

Experience:

Laboratory Experience:

- Worked for twenty-two years on Agricultural Engineering in Egypt and two years on Agricultural Engineering and Environmental control housing and quality measurements in Germany. Now, Professor of food process engineering in King Faisal University, Saudi Arabia.
- Having practical experience in Climatic Chambers in Agricultural Products.
- Practical experience on built climatic chambers system and experience in interpreting results.
- Training course in Agriculture building.
- All measurements in Physical Characteristics in Agriculture Products.



- Machine vision application and development different package systems for food products.

INSTRUMENTATION

- Experienced in using: Acoustic device Analysis, Universal Testing Machine, Vibration Analysis, Operational modal analysis, Thermal imaging camera, fiber optical temperature measurement system, solar radiation measurement facilities and Data acquisition systems.

COMPUTER SKILL

- Systems: Windows
- Languages: Basic, Html, Java
- Applications: MS Office, WordPerfect, AutoCAD, MatLab, Sap, Spss, SAS, Statistica, M Stat, Quattro Pro and Flowchart.

BOOKS

- *The following books were published in English Language:-*

1. Structure and Function of Food Engineering, 2012, Edited by Ayman Hafiz Amer Eissa (ISBN 978-953-51-0695-1), A free online edition of this book is available at www.intechopen.com, First published August 22, 2012 under CC BY 3.0 license, in subject Physical Sciences, Engineering and Technology, 2012 INTECH Publishers, Croatia).
2. TRENDS IN VITAL FOOD AND CONTROL ENGINEERING, 2012, Edited by Ayman Hafiz Amer Eissa (ISBN 978-953-51-0449-0, A free online edition of this book is available at www.intechopen.com, First published April, 2012 INTECH Publishers, Croatia).
3. Food Engineering, 2010, ISBN: 978-1-61728-913-2, Nova Science Publishers, USA.
4. Progress in molecular and environmental bioengineering – from analysis and modeling to technology applications (ISBN 978-953-307-268-5, A free online edition of this book is available at www.intechopen.com, First published July, 2011 INTECH Publishers, Croatia).



5. Food Production and Industry , Edited by Ayman Hafiz Amer Eissa, ISBN 978-953-51-2191-6, 194 pages, Publisher: InTech, Chapters published October 22, 2015 under CC BY 3.0 license published October 22, 2015 under CC BY 3.0 license CC BY 3.0 license, in subject Physical Sciences, Engineering and Technology, 2012 INTECH Publishers, Croatia)., DOI: 10.5772/59527.

• The following books were published in Arabic Language:-

1. Farm Building and Contraction.
2. Engineering Drawing.
3. Machine Drawing.
4. Biosystem Engineering.
5. Before Harvesting Machinery.
6. Fundamentals of mechanics in agricultural engineering.
7. Applications of physics in agricultural engineering.
8. Special Mechanization course.
9. Principle engineering theory and applications for farm machinery.
10. Principle engineering theory and applications for farm machinery (practices).
11. Engine technology.
12. Engineering and application Fundamentals in seed bed preparation machines.
13. Maintenance of after harvesting machines.
14. Mechanical control in agricultural equipment.
15. Principles of machine design.
16. Harvest and thresher machines.
17. Mechanization of transport, handling and saving operations.
18. Mathematics principles.
19. Theory of machine principles.

• The following books Translated from English to Arabic Language:-

- Serpil Sahin and Servet Gulum Sumnu (2006). Physical Properties of Foods. Springer, USA. E-ISBN0-0-387-30808-3.



Teaching Experience:

- Instructor Assistant for Agriculture engineering courses at Menoufiya University for 8 years (1988 – 1996).
- Currently teaching several undergraduate and graduate Agriculture Engineering courses at Menoufiya University (1999 – until now) for as following.

Math. (1)	Soil Mechanics	Solar Energy & application
Math. (2)	Numerical Methods (1)	Renewable Energy
Statistics (1)	Project Management	Environmental control of greenhouses
Statistics (2)	Mechanization and Animal Production	Recycling residues
Math. (3)	Theory of Machine	Engineering handling & quality
Physics	Machine design	Computer science & Programming
Machine Drawing	Farm Machinery	Farm Power and Tractors
Material science	Farm Building and Constriction	Fundamentals of Agric. Engineering
Agricultural Systems Engineering	Food Process Engineering	Food Materials Properties
Engineering Projects Management	Engineering Mathematics	Instrumentation & Control Devices
Mechanical Operations of Food Processing	Waste Treatment of Food Factories	Food Storage Engineering

Skills

: English (*very good*), German (*good*) and Arabic Language.

Awards/Fellowships:

1. Recipient of Channel system with Martin-Luther University, Germany.
2. Post Doctor and Visitor Professor in Faculty of Agricultural, Martin-Luther University, Germany. From October 2006 until January 2007.



ACADEMIC AND PRACTICAL EXPERIENCE:

1. Teaching of theoretical and practical courses during my position as Professor, Associate Professor, and Assistant Professor for undergraduate and graduate students such as Heat Transfer, Food Preservation Engineering, Transportation Engineering and Trading Agricultural Materials, Food Process Engineering, Food and Dairy Technology, Agricultural Buildings, Analytic Geometry and Linear Algebra, Differential equations, Theory of functions, Differentiation and Integration of Advanced in the Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University.
2. Participation in the work of Examinations in the Faculty of Agriculture, as well as other Faculties in the Universities of Alexandria, Tanta and Minoufiya.
3. Contribute of the preparing handling teaching material notes, which are taught in the Department of Agricultural Engineering, Faculty of Agriculture, Menoufia University.
4. Mandate to teach in the Faculty of Education in Minoufiya, Tanta University for teaching courses such as Agricultural Process Engineering.
5. Mandate to teach in the Faculty of Agriculture, Tanta University for teaching courses in Agricultural Engineering.
6. Mandate to teach in the Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University for teaching courses such as Heat Transfer, Food Preservation Engineering, Transportation Engineering and Trading Agricultural Materials, Food Process Engineering, Food and Dairy Technology, Agricultural Buildings, Theory of functions, Differentiation and Integration of Advanced.
7. Assistance in the teaching of practical courses taught in the specialized field of Agricultural Engineering, Faculty of Agriculture, and Minoufiya University during my position as Demonstrator and Assistant Lecturer.
8. Published of about 45 published paper.



9. Supervision of 9 Ph. D. and 9 M. Sc. Students in the Department of Agricultural Engineering, Faculty of Agriculture, and Minoufiya University which were finalized their studies in the limited time.
10. Two Ph. D. and two M. Sc. Students still under my supervision and studding in the Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University.
11. I involved in internal or external examiner for of about 8 Ph.D. and 10 M.Sc. students thesis in the Department of Agricultural Engineering, for the Different Universities in Egypt.
12. I have been participating as examiner for 6 Ph.D. Students for the fulfillment qualification for Doctoral Degree in the Department of Agricultural Engineering, for the Different Universities in Egypt.
13. Peer reviewer for about of 65 scientific research papers in Different Scientific Journals.
14. Shareholder in the assessment and evaluate the of the project outputs of King Abdulaziz City for Science and Technology (KACST), Saudi Arabia.
15. Evaluate of some proposals for U.S. Department of Agriculture/ Agricultural Research Agency (USDA/ARS).
16. Scientific vesting to international center for biosaline agriculture, Dubai, IJAE.

International Cooperation

Membership in honorary Societies :

- Membership of International Food Engineering Society (IFES).
- Membership of Scientific and Technical Committee & Editorial Review Board on Engineering and Applied Sciences (WASET).
- Membership of Journal of Food Engineering.
- Membership of Journal CIGR (International Commission of Agricultural and Biosystems Engineering).
- Membership of World's Poultry Science Association.
- Membership of Egyptian Agricultural Engineering Society.
- Membership of Egyptian Poultry Science Society.



- Membership of Minofiya Journal of Agricultural Research.
- Membership of King Abdulaziz City for Science and Technology (KACST).
- Membership of Arab Scientific Community Organization.
- Membership of Australian Journal of Agricultural Engineering.
- Membership of the International Journals of Engineering & Sciences (IJENS).
- Membership of the American Journal of Engineering Research.
- Membership of the Saudi Biological Society 2014 - present.
- One of the 2000 Outstanding Scientists in the 21th century – 8th Edition, 2014, the international Biographical Center of Cambridge, England.
- Top 100 Educators, 2014, the international Biographical Center of Cambridge, England.
- International Biographical Center Man of the Year 2014. the international Biographical Center of Cambridge, England.
- Marquis Who's Who in Science and Engineering, 2015, USA

Reviewer and Editorial Board:

- *Technical reviewer for the following journals (total review paper numbers):*
- 1- Journal of Food Process Engineering [5]
- 2- Journal of Food Engineering [35]
- 3- International Journal of Agricultural & Biological Engineering [3]
- 4- International Journal of Latest Trends in Agricultural & Food Sciences [4].
- 5- Journal of Food and Function [2].
- 6- Spanish Journal of Agricultural Research [2].
- 7- World Academy of Science, Engineering and Technology [15].
- 8- Czech Journal of Food Sciences [2]
- 9- American- Eurasian Journal of Agricultural & Environmental Sciences (AEJAES) [5]
- 10- Minoufiya journal of Agricultural Research [10]



- 11- Misr Journal of Agricultural Engineering [5]
- 12- Journal of Applied Sciences Research [3]
- 13- American Journal of Engineering Research [2]
- 14- International Journals of Engineering & Sciences (IJENS) [2]
- 15- Journal of Food and Nutrition Sciences [2]

• *Editorial Board for the following journals.*

- 1- Journal of Food Science and Engineering. Journal of Food Science and Engineering is published monthly in hard copy (ISSN 2159-5828) and online (ISSN 2164-5795) by David Publishing Company located at 9460 Telstar Ave Suite 5, EL Monte, CA 91731, USA.
- 2- International Journals of Engineering & Sciences (IJENS) is a newly published set of international journals encompassing all the fields of Engineering, Applied Sciences & Computer Technology. IJENS Researchers Promotion Group.
- 3- Science Journal of Energy Engineering, *Science Journal of Energy Engineering (SJEE)*, a peer-reviewed open access journal published bimonthly in English-language, provides a international forum for publishing original research papers, with emphasis on dealing with energy efficiency, energy services, facility management, plant engineering, environmental compliance and alternative energy technologies. The coverage of the journal combines selective subjects from the fields Chemical, Mechanical and Electrical Engineering. It is an interdisciplinary program which has relativity with electrical, mechanical and chemical engineering. Contributions that are fundamental to the development of energy engineering and its applications are accepted. Generally, review articles on some topic of special current interest will be published. <http://www.sciencepublishinggroup.com/j/sjee>.
- 4- International Journal of Humanities Social Sciences and Education (IJHSSE). ARC- Academicians' Research Center (arcjournals).

• *Editor-in-Chief for the following journals.*

- 1. **International Journal of Food Engineering and Technology.**
International Journal of Food Engineering and Technology (IJFET) is an international journal that publishes innovative papers in the fields of food engineering, microstructure development and characterization, food processing, food biotechnology, technology, packaging and engineering of foods and food



products, food quality, food handling. The work described should be innovative either in the approach or in the methods used. The significance of the results either for the science community or for the food industry must also be specified. Contributions written in English are welcomed in the form of review articles, short reviews, research papers, and research notes.

Authors and editors come from top engineering programs around the world: the U.S., Canada, the U.K., and Western Europe, but also South America, Asia, Africa, and the Middle East.

<http://www.sciencepublishinggroup.com/j/ijfet>

- **International Advisory Committee:**

- 1- ICPEAM 2014: International Conference on Process Engineering and Advanced materials. Venice, Italy, April 14-15, 2014.
- 2- ICCPE 2014: International Conference on Chemical and Process Engineering, Kyoto, Japan, November 3- 4, 2014.
- 3- ICCPE 2014: International Conference on Chemical and Process Engineering, Oslo, Norway, July 22-23, 2014.
- 4- ICCPE 2014: International Conference on Chemical and Process Engineering, Stockholm, Sweden, July 15-16, 2014.
- 5- ICCFE 2014: International Conference on Chemical and Food Engineering, Cairo, Egypt, October 26-27, 2014.
- 6- ICCPE 2013: International Conference on Chemical and Process Engineering, Bali, Indonesia, October 30-31, 2013.
- 7- African Society for Toxicological Sciences. 2013 ASTS INTERNATIONAL CONFERENCE AND WORKSHOP: Toxicological and Risk Assessment Challenges in Africa Ismailia, Egypt, Feb. 10-15, 2013.
- 8- International Journals of Engineering & Sciences (IJENS) is a newly published set of international journals encompassing all the fields of Engineering, Applied Sciences & Computer Technology. IJENS Researchers Promotion Group.
- 9- "International Conference on Food Chemistry and Technology (FCT-2015)" in San Francisco, USA during November 16-18, 2015 with the theme: *"Exploring the recent trends, innovation & emerging technologies for food research and development"*.



10- International Nutritional Science and Food Chemistry Conference Nov. 11-12, 2019. Venice, Italy.

Scientific Committees to Examine Scientific Production for Positions Professors and Assistant Professors.

- ✓ Jury member of the Scientific Committee to examine the scientific production for positions of professors and assistant professors first ten session January 2013 - December 2015 & 2016-2018 (Committee on land and agricultural engineering). Supreme Council of Universities and the Ministry of Higher Education of the Arab Republic of Egypt.

Patents involving:

- To obtain the patent was invented by Germany for a quality measuring devices eggs under the number (DE198 51 116 A1). The display device in the gallery Aerostar in Hanover - Germany in 1998 as a representation of the Martin Luther University in Germany in the exhibition.
- To apply for a patent in a single vision systems for automated inspection and sorting dates from the United States.

Awards and recognitions obtained by:

1. Get Minoufiya University Award for publication in international journals 2008 World research published in the Journal of Food Engineering World.
2. Get Minoufiya University Award for publication in international magazines 2009 Global research published in the Journal of Food Engineering World.
3. Get Minoufiya University Award for publication in international magazines 2009 Global research published in the Journal of the global food manufacturing engineering.
4. Certificate of Merit from the President of Minoufiya University of efforts abundant carried out by the Planning Commission and the numbers - Conference on improving the quality of graduate programs "meet the challenges and move toward the future and Development" was held on February 25 to 26 in 2009 and organized sectors of Graduate Studies and Research and Community Service and Environmental Development - Minoufiya University - Egypt.



5. Certificate of Merit from the President of Minoufiya University of efforts premium paid by the Planning Commission and the numbers - and a member of the marketing committee and the development of financial resources - Conference Marketing Research Applied University, "Research in the service industry," which was held October 7 to 8 in 2009 and organized sectors Community Service and Environmental Development and Graduate Studies and Research - Minoufiya University - Egypt.
6. Certificate of Merit from King Faisal University - Kingdom of Saudi Arabia for the outstanding efforts made by the success of the exhibition products and get students to first place during the academic year 1432/1433 AH.
7. Certificate of Merit from the College of Agricultural Sciences and Food Science - King Faisal University - Saudi Arabia's efforts premium paid by the success of the World Conference (sustainability of production and camel breeding) and held on 17 to 18 February 2013, King Faisal University - Faculty of Agricultural and Food Sciences - Saudi Arabia.
8. Certificate of Appreciation from Marquis Who's Who as global one of the characters is a 2013 science in the field of Food Process Engineering in the world.
9. Certificate of Merit from the International Center of Cambridge, England, within a personal best distinguished scientific than 2000 personal in the world in 2014.
10. Certificate of Appreciation and Award of Recognition from the Saudi Aramco. In recognition of my outstanding contribution to the success of " Agricultural Waste & Environment Protection Promising Economic Opportunities, 5-6 Nov. 2014, Al Ahase Intercontinental, Saudi Arabia.
11. Top 100 Educators, 2014, the international Biographical Center of Cambridge, England.
12. International Biographical Center Man of the Year 2014. The international Biographical Center of Cambridge, England.
13. Marquis Who's Who in Science and Engineering, 2015, USA.
14. International Nutritional Science and Food Chemistry Conference Nov. 11-12, 2019. Venice, Italy.

Scientific Reports and Consultation:

(A) Private Consultation

1. Environmental Impact Assessment of poultry farm owned by Almarri A.R. (2011) located south Al-Ahsa, 15 km north of Yabrin 2 km off the road. Submitted to the Ministry of Agriculture-Licensing Department.
2. Environmental Impact Assessment of poultry farm owned by Almarri N. R. (2011) located south Al-Ahsa, 62 km south of Harad Road to Yabrin. Submitted to the Ministry of Agriculture-Licensing Department.



3. Environmental Impact Assessment of poultry farm owned by Almarri N. M. (2011) located south Al-Ahsa, 79 km south of Harad Road to Yabrin. Submitted to the Ministry of Agriculture-Licensing Department.
4. Environmental Impact Assessment of poultry farm owned by Almarri S. M. (2011) located south Al-Ahsa, 69 km south of Harad Road to Yabrin. Submitted to the Ministry of Agriculture-Licensing Department.
5. Environmental Impact Assessment of poultry farm owned by Mohammad Alharshan (2010) located 63.5 km south Al-Ahsa, the Road to Harad. Submitted to the Ministry of Agriculture- Licensing Department.

(B) Current Research Project :

No.	Investigator Name	Project Title
1	<u>Amer Eissa A. H</u> and <u>Alghannam A. O</u>	Engineering study on the handling of date palm fronds to reduce waste and used as energy environmentally friendly fuel (Supported by Deanship of Scientific Research, KFUPM).
2	<u>Almuhanna I., Amer Eissa A. H</u> and <u>Alghannam A. O</u>	Development of electrostatically assisted air cleaning and cooling device suitable to the characteristics of air pollutants and dust storms in the local environment. (Supported by Deanship of Scientific Research, KFUPM).
3	<u>Ibrahim M. A., Amer Eissa A. H</u> and <u>Alghannam A. O</u>	Image Processing System for Sorting Dates (Date Palm Research Center (Excellence Center), King Faisal University, Al-Hassa)
4	<u>Abdulkhalik A., Amer Eissa A. H</u> and <u>Alghannam A. O</u>	A Design of Programmable Logic Controller (PLC) Systems with Image Processing for Dates Sorting. (Date Palm Research Center (Excellence Center), King Faisal University, Al-Hassa)
5	<u>Ibrahim M. A., Amer Eissa A. H</u> and <u>Salah El-Aid</u>	Using Applications of Pulsed Electric Fields Technology to Control Microbial Contamination on Dates (Date Palm



		Research Center (Excellence Center), King Faisal University, Al-Hassa.
6	Nabil Saud Albaloshi, Ayman Hafiz Amer Eissa, Mohamed Salem El-Sikhan and Mohammed M. El-Garawany	Organic Agriculture and its Effect on the Tissue Textures for Post-Harvest Treatments of Vegetables. (Supported by KACST).
7	Mostafa A. Azam, Ayman Hafiz Amer Eissa, Mohamed and Hassan A. Al-Hasham	Pre-cooling for some Horticulture Crops in Al-Hassa Region. (Supported by Deanship of Scientific Research, KFUPM).

Scientific Conferences:

1. International Nutritional Science and Food Chemistry Conference Nov. 11-12, 2019. Venice, Italy.
2. "International Conference on Food Chemistry and Technology (FCT-2015)" in San Francisco, USA during November 16-18, 2015 with the theme: *"Exploring the recent trends, innovation & emerging technologies for food research and development"*.
3. ICAFE, International Conference on Agricultural and Food Engineering, New York, USA, June, 5-6, 2014.
4. The 29th Meeting of Saudi Biological Society: Environment and Development in the Gulf Region, 25-27 Feb., 2014, University of Dammam, Saudi Arabia.
5. ICABBBE, International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering, New York, USA, June, 5-6, 2013.
6. SOT Annual Meeting & ToxExpo. San Antonio, Texas, March 10-14, 2013. USA.
7. The Resilience of Agriculture Systems against Crises. Tropentag Sept., 19-21, 2012, Gottingen, Germany.
8. International Conference of Agricultural Engineering CIGR-AgEng July 8-12, 2012, Valencia, Spain.
9. The Saudi International Environmental Technology Conference, 13-15 May 2012. KACST, Riyadh, Saudi Arabia.
10. The 17th Annual conference of Misr Society of Agricultural



- Engineering “The Role of Agricultural Engineering in Environmental and Sustainable Development for the Valley and Delta Areas” in cooperation with the Agricultural Engineering Department, Faculty of Agriculture, Tanta University, 28 October, 2010.
11. The 16th Annual conference of Misr Society of Agricultural Engineering “Agricultural Engineering and Variables of the Present Epoch” in cooperation with the Agricultural Engineering Department, Faculty of Agriculture, Cairo University, 25 July, 2009.
 12. The 15th Annual Conference of Misr Society of Agricultural Engineering on “Agricultural Mechanization and Engineering Between Existing and Prospected” 12 – 13 March 2008.
 13. The 14th Annual Conference of Misr Society of Agricultural Engineering on "New Trends in Agricultural Engineering", in cooperation with the College of Agriculture, Ain-Shams University, 22 November, 2006.
 14. The 13th Annual Conference of Misr Society of Agricultural Engineering on “Role and Horizons of Agricultural Engineering in the Contemporary World”, Department of Agricultural Engineering, Faculty of Agriculture, Al-Azhar University, 14-15 December, 2005.
 15. The 12th Annual Conference of Misr Society of Agricultural Engineering on “Modern Technology in Agricultural Engineering Researches and Applications And Development of Educational Programs”, Agricultural Engineering Department, Faculty of Agriculture, Alexandria University, 4-5 October, 2004.
 16. The 11th Annual Conference of Misr Society of Agricultural Engineering in Cooperation with Agricultural Engineering Research Institute “Agricultural Engineering Role for Minimizing Losses and Maximizing Agricultural Production” Rice Mechanization Center, Meet El-Deeba, Kafr El-Sheikh Governorate, 15-16 October, 2003, Kafr El-Sheikh, Egypt.
 17. The tenth conference of Miser Society of Agric. Eng., Agric. Eng. Dep., Fac. Of Agric. Al Azhar Uni., 16-17, Oct., 2002.
 18. The First International Conference for Manufacturing Agricultural Equipment and Machinery, and The Ninth Conference of Misr Society of Agricultural Engineering, Parallel with Sahary 14, 9-11 September, 2001, Egypt.
 19. The Eight Conference of Misr Society of Agricultural Engineering on “Role of Agricultural Engineering in Development of the Egyptian Country”. Faculty of Agricultural, Minoufiya University, 25- 26 October, 2000, Egypt.
 20. The Seventh Conference of Misr Society of Agricultural Engineering on “The Role of Agricultural Engineering and Mechanization in the Large Scale Agricultural Development Projects in Egypt”. Faculty of



- Agricultural, Alexandria University, 27- 28 October, 1999, Egypt.
21. The Sixth Conference of Misr Society of Agricultural Engineering on "Integrated Local and Foreign Manufacturing of Agricultural Equipment and Machinery". Meet El-Deeba Center, AEnRI, Kafr El-Sheikh Governorate, 21-22 October 1998, Egypt.
 22. VII European Symposium on the Quality of Eggs and Egg Products, Poznan, Poland, 1997.
 23. Hochschultagung, März, 1998 in Jena, Germany.
 24. Euro Tier' 1998, 10-13 November, Hannover, Germany.
 25. IXth European Symposium on the Quality of Eggs and Egg Products, Kusadasi, Turkey, 9-12 September, 2001.
 26. XII European Symposium on the Quality of Eggs and Egg Products, Czech Republic – Prague, September 2-5th, 2007.
 27. The Fourth ERD6 Conference. Faculty Of Engineering, Shebin El-Kom. Center of Rural Development 23-25 October 2007.
 28. The 8th Fruit, Nut and Vegetable Production Engineering Symposium, Concepcion Chile, 5-9-Jan., 2009.
 29. The First Nile Delta Conference on Export Crops, Fac. Of Agric., Minufiya Univ., 30-31 March 2009.
 30. The First Scientific Conference for Marketing the Applied University Research "Academic Research for the Service of Industry". Minufiya Univ., 7-8 OCTOBER 2009.

Contributions to research and development:

(List of Publication)

Refereed Journals:

- (1) Amer Essa A.H., Gamea G.R. and Lotfy A. (2002). Statistical models for Physical and mechanical properties of egg shell. *Misr j. Agr. Eng.*, 19 (3): 741-758.
- (2) Lotfy A., Amer Essa A.H. and Gamea G.R (2002). A comparative study between TWO DIFFERENT methods for harvesting and threshing of winter rape-seed crop. *Misr j. Agr. Eng.*, 19 (4): 867-880.
- (3) Amer A.H., H. Pingel, J.Hillig , M. Soltan, and E. von Borell, (2004). Impact of atmospheric ammonia on laying performance and egg shell strength of hens housed in climatic chambers. *Arch. Geflugelk*, 68 (3), 120-125. ISSN 0003-9098. © Verlag Eugen Ulmer GmbH & Co., Stuttgart.



- (4) Amer Essa A.H. and Gamea G.R. (2002). Physical and mechanical properties of bulb onions. *Misr j. Agr. Eng.*, 20 (3): 661-676.
- (5) Amer Essa A.H. (2004). A portable pendulum for impact characterization of whole eggshell. *Misr j. Agr. Eng.*, 21(1):1-13.
- (6) Gamea G.R., Amer Essa A.H. and El-Beltagy A. (2005). Solar drying characteristics of Strawberry. *Misr j. Agr. Eng.*, 22 (1): 15-31.
- (7) Amer Essa A.H. (2005). Effects of age on some physical and rheological properties of eggshell quality in chickens. *Minofiya J. Agric. Res. Vol. 30 No. 51-76.*
- (8) El-Beltagy A., Gamea G.R. and Amer Essa A.H. (2007). Solar drying characteristics of Strawberry. *Journal of Food Engineering*, (78): 456-464.
- (9) Amer Eissa A. H. (2011). PHYSICAL AND AERODYNAMIC PROPERTIES OF FLAXSEEDS FOR PROPER SEPARATION BY USING AIR STREAM. *Journal of Food Process Engineering* (34), 983–1012.
- (10) Amer Eissa A. H. (2009). Comparative eggshell stability assessment using three different non-destructive sensing instruments and breakage force strength. *Journal of Food Engineering*, (93) 444-452.
- (11) Amer Eissa A.H., and Gomaa. F. R. (2007). Prediction of Fracture of Eggshell using Operational Modal Analysis OMA. *Engineering Research Journal Minoufiya Uni.*, Vol. 30, No.1, 77-88.
- (12) Amer Eissa A.H.; Gomaa A.H.; Baiomy M.H. and Ibrahim A. A. (2008). Physical and Mechanical characteristics for some agricultural residues. *Misr j. Ag. Eng.*, 25(1): 121-146.
- (13) Amer Eissa A.H., Gamea G.R. and El-Beltagy A., (2008). SIMULATION MODELS OF THE THIN LAYER SOLAR DRYING OF BANANA SLICES. *Minufiya J. Agric. Res. Vol. 33 No.3: 689 – 708.*
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Applicant's statement.

a - Research experience:

Participated as a research scientist in projects financed by the Egyptian Ministry of Agriculture:-

- 1- Physical and mechanical properties of some oilseeds.
- 2- Physical properties of some legume.
- 3- Physical properties of onion.
- 4- Manure handling and ammonia emissions.
- 5- Machine Vision for sorting agriculture products (potato, orange, dates and onion).
- 6- New Technique to measure vibration analysis under transport the agriculture products.
- 7- Solar drying characteristics for some agricultural products.
- 8- Pulsed Electric Fields Technology to Control Microbial Contamination on agricultural products.

Doing a research work with Department of Horticulture Science to use a new technology to reduce post-harvest damage



on some fruits, and Department of Poultry Production to reduce the losses during handling of the eggs.

b - Relevant activities:

- Presented 2 posters in Germany, Martin-Luther University, Institute of Animal Breeding and husbandry. One of climatic chambers of laying hens and the mechanisms involved, in Agriculture Engineering.
- Presented a seminar on housing system of laying hens in Department of Agriculture Engineering, Faculty of Agriculture, Shibin El- Kom, Egypt.
- Patent from Deutschland, Germany (DE198 51 116 A1).
- As faculty member since 1986 teaching practical courses of Agriculture Engineering till 1996, and teaching practical and theoretical courses of Agriculture Engineering to under and post-graduate students since 1999, till now.
- Advisory member for 12 M.Sc. and 11 Ph.D. students works on Agriculture Engineering.
- I prepared laboratory to measurement quality of some Agriculture Products.

c- Research career:

All things are connectedWhatever befalls the earth befalls the sons of the earth..... this we know – the earth does not belong to man, man belongs to the earth, man did not weave the web of life; he is merely a strand in it. We have not inherited the earth from our father; we are borrowing it from our children Lester A. Brown, 1981.

Agriculture Systems Engineering offers answers to many serious problem of modern Agriculture and is an essential component in the development of a sustainable Agriculture capable of containing without interruption or diminution.





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Prof. Dr. Ayman H.M. Amer Eissa, Ph.D.

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