

2013

## Curriculum Vitae, Prof. Dr. Ayman Hafiz Amer Eissa



**King Faisal University**  
Agric. Systems Eng. Dept.,  
**Al-Hassa, Saudi Arabia**  
Co./ Martin Luther University, Halle sale, Germany  
and Minoufiya University, Egypt

## 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** Professor of Food Process Engineering  
**Address: Home** Shibin El-Kom, Minofiya, Egypt.  
**Tel.** 002/048 /2238268  
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**Business** Agricultural Systems Engineering Department,  
 College of Agricultural and Food Sciences, King  
 Faisal University, P.O. Box 420, Al-Hassa 31982,  
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**Education**

- B.Sc.** Oct, 1970 to June, 1982: Primary, preparatory and secondary schools at Tanta schools.  
Minoufiya University, June 1986.  
Shibin El-Kom, Egypt.  
*Major: Agricultural Mechanization.*
- M.Sc.** Minoufiya 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 Professor**  
Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University, Shibin El-Kom, Egypt.
- 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 until now  
**Supervisor**  
Center of Marketing Service University, Minoufiya University.
- June, 2010 to 23 Sept. 2010  
**Professor**  
Department of Agricultural Engineering, Faculty of Agriculture, Minoufiya University, Shibin El-Kom, Egypt.
- Sept. 25, 2010 to until now  
**Professor**  
Department of Agricultural Systems Engineering, College of Agriculture and Food Sciences, King Faisal University,



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P.O. Box 420, Al-Hassa 31982, Saudi Arabia.

**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 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**

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- 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](http://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](http://www.intechopen.com), First published April, 2012INTECH 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](http://www.intechopen.com), First published July, 2011 INTECH Publishers, Croatia).
- *The following books were published in Arabic Language:-*
  1. Farm Building and Contraction.
  2. Engineering Drawing.
  3. Machine Drawing.



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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.**

**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



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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.

**Membership in honorary Societies & Editorial Review Board :**

- 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.



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- 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.

**Reviewer and Editorial Board**

- *Technical reviewer for the following journals (total review paper numbers):*

- 1- Journal of Food Process Engineering [3]
- 2- Journal of Food Engineering [16]
- 3- International Journal of Agricultural & Biological Engineering [3]
- 4- International Journal of Latest Trends in Agricultural & Food Sciences [2].
- 5- Journal of Food and Function [2].
- 6- Spanish Journal of Agricultural Research [2].
- 7- World Academy of Science, Engineering and Technology [2].
- 8- Czech Journal of Food Sciences [2]
- 9- American- Eurasian Journal of Agricultural & Environmental Sciences (AEJAES) [ 3]
- 10- Minufiya journal of Agricultural Research [7]
- 11- Misr Journal of Agricultural Engineering [5]
- 12- Journal of Applied Sciences Research [3]

- *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.





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- **International Advisory Committee:**

- 1- African Society for Toxicological Sciences. 2013 ASTS INTERNATIONAL CONFERENCE AND WORKSHOP: Toxicological and Risk Assessment Challenges in Africa Ismalia, Egypt, Feb. 10-15, 2013.

### **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 and 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, KFU).
2	Almuhanna I.,	Development of electrostatically assisted





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	<b>Amer Eissa A. H and Alghannam A. O</b>	<b>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, KFU).</b>
<b>3</b>	<b>Ibrahim M. A., Amer Eissa A. H and Alghannam A. O</b>	<b>Image Processing System for Sorting Dates (Date Palm Research Center (Excellence Center), King Faisal University, Al-Hassa</b>
<b>4</b>	<b>Abdulkhaliq A., Amer Eissa A. H and Alghannam A. O</b>	<b>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</b>
<b>5</b>	<b>Ibrahim M. A., Amer Eissa A. H and Salah El-Aid</b>	<b>Using Applications of Pulsed Electric Fields Technology to Control Microbial Contamination on Dates (Date Palm Research Center (Excellence Center), King Faisal University, Al-Hassa</b>

### 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 Eissa 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.*
- (14) Lotfy, A.; Ebtesam H. Mousa ; A.H. Amer Eissa and M.M. Abdel Galil. (2008). DEVELOP A SOLID FERTILIZER SPREADER FOR PUTTING FERTILIZERS UNDER VEGETABLE SEEDLINGS IN

NEW LANDS. *J. Agric. Sci. Mansoura Univ.*, **33 (10): 7355 – 7365.**

- (15) Gebriel, G. M., M.E. Soltan, F. H. Abdou, M. F. Amer, [A. H. A. Eissa](#) and Samia M.M Mahgoub (2010). THE INTERACTION EFFECT AMONG AGE OF LAYER, STRAIN OF CHICKEN AND YEAR OF LAYING ON INTERNAL EGG QUALITY TRAITS. *Minufiya J. Agric. Res. Vol.35 No. 1:105-126 (2010).*
- (16) Soltan, M. E., G. M. Gebriel, F. H. Abdou, M. F. Amer, [A. H. A. Eissa](#) and Samia M.M Mahgoub (2010). THE INTERACTION EFFECT AMONG AGE OF LAYER, STRAIN OF CHICKEN AND YEAR OF LAYING ON EXTERNAL QUALITY TRAITS. *Minufiya J. Agric. Res. Vol. 35 No. 1:87-103 (2010).*
- (17) Ismail Z. I., [Amer Eissa A.H.](#) , and Wang Yingkuan (2010). Vertical brush metering device for sweet sugar beet planter. *International Journal of Agricultural and Biological Engineering. Vol.3 No. 1, pp 1-12.*
- (18) [Amer Eissa A. H.](#), Mohamed M.A., Moustafa H. and Alghannam A. O. (2010). MOISTURE DEPENDENT PHYSICAL AND MECHANICAL PROPERTIES OF CHICKPEA SEEDS. *International Journal of Agricultural and Biological Engineering. Vol.3 No. 1, pp 1-14.*
- (19) Gomaa. F. R., G. R. Gamea, M. M. Azam and [Amer Eissa A.H.](#) (2011). HEALTH MONITORING OF PACKED AGRICULTURAL PRODUCTS USING DYNAMIC ANALYSIS. *Engineering Research Journal Minoufiya Uni., Vol. 33, No.4, 377-394.*
- (20) Ismail z. Ebrahim, [Amer Eissa Ayman](#), Riccardo Guidetti (2011). A NEW SMALL POTATO PLANTER FOR EGYPTIAN AGRICULTURE. *J. of Ag. Eng. Riv. di Ing. Agr. (2011),3,7-13.*



- (21) Amer Eissa Ayman , Gamea, G. R., Aboamera, M. A. and Ahmed, M. E. (2012). DESIGN AND MANUFACTURING OF PROTOTYPE FOR ORANGE GRADING USING PHOTOTRANSISTOR. Int. J Latest Trends Agr. Food Sci. Vol-2 No 1 March, 2012.
- (22) Amer Eissa, A. H., Gamaa. G. R, Gomaa. F. R and Azam. M. M (2012). Comparison of Package Cushioning Materials to Protect Vibration Damage to Golden Delicious Apples. Int. J Latest Trends Agr. Food Sci. Vol-2 No 1 March, 2012.
- (23) Nabil S. Albaloushi, Mostafa M. Azam and Ayman H. Amer Eissa (2012). Mechanical Properties of Tomato Fruits Under Storage Conditions. Journal of Applied Sciences Research, 8(6): 3053-3064.
- (24) Eissa, A.H., A.H. Gomaa; G.R. Gamea; 1E. Elsaiedy; Y. F. Sharobeem; A.A. Ibrahim (2012). Machine Vision Simulation for Sorting Orange Fruits. Journal of Applied Sciences Research, 8(7): 3211-3224.
- (25) M.A. Mohamed , A.H. Amer Eissa, M.A. Aboamera, A.T.Taha and H. Moustafa (2012). USING ACOUSTIC RESONANCE FREQUENCY IN EVALUATION FOR EGGS QUALITY PROPERTIES. *Minufiya J. Agric. Res. Vol.37 No. 4(1): 793 – 806* "http://www.mujaar.net.
- (26) Ayman H. Amer Eissa, Abdul Rahman O. Alghannam and Mostafa M. Azam (2012). Mathematical Evaluation Changes in Rheological and Mechanical Properties of Pears during Storage under Variable Conditions. Journal of Food Science and Engineering Vol.(2), No.(10):564-575.

### **Proceedings and Conference Communications:**

- (1) Müller, J., Lengerken, G. and Amer, A. (1997). Consequences of methionine supply and ambient temperature on criteria of egg



- quality. Pages 83 in: Eggs and Egg Products Quality. Proceedings of the VII European Symposium on the Quality of Eggs and Egg Products, Poznan, Poland.
- (2) Amer, A.H., Hillig, J. and von Borell, E. (1998). Einfluß von Stalklimafaktoren auf die Eischalenqualität in der Legehennenhaltung. Landwirtschaftliche Produktionsbedingungen-Qualität der Erzeugnisse, S. 237, 6. Hochschultagung, März, 1998 in Jena, Germany.
- (3) Amer, A.H., E. von Borell, and Hillig, J., (1998). Druckkegelmessung ( Neues Verfahren zur Beurteilung der Eischalenqualität ) Euro Tier' 1998, 10-13 November ,Hannover , Germany.
- (4) Amer, A.H., E. von Borell, and Hillig, J., (1998). Druckkegelmessung ( Neues Verfahren zur Beurteilung der Eischalenqualität ), DGS intern Woche 51-52/ 1998, S.9, Germany.
- (5) von Borell, E., A.H. Amer, und J. Hillig: Patent DE 198 51 116.7 – MLU 13/98: Kraffteinleitungskörper zur Messung der Eischalenstrukturfestigkeit. (Messverfahren zur Bestimmung der Eischalenqualität; Anmeldetag: 6. November 1998, Offenlegungstag: 11. Mai 2000).
- (6) Amer A.H., A El-Beherly and F.H. Abdou (2000). Acute environmental temperature and ammonia stress effects on some egg shell quality and laying performance in caged laying hens. The eighth conference of Miser Society of Agric. Eng., Agric. Eng. Dep., Fac. Of Agric. Minofiya Uni. 25-26, Oct., 2000.
- (7) Amer A.H., M. Soltan, E. von Borell, J.Hillig , and H. Pingel (2001). Impact of atmospheric ammonia on egg shell strength and laying performance of White Leghorn hens housed in climatic chambers. IX<sup>th</sup> European Symposium on the Quality of Eggs and Egg Products, Kusadasi, Turkey, 9-12 September, 2001.
- (8) Gamea G.R., Amer Essa A.H. and Lotfy A. (2002). The thin layer drying behaviour of apricots by indirect natural convection solar dryer. The tenth conference of Miser Society of Agric.



Eng., Agric. Eng. Dep., Fac. Of Agric. Al Azhar Uni., 16-17, Oct., 2002.

- (9) Amer Eissa A.H., H. Pingel and E. von Borell (2007). Relationships of non-destructive measurements with breaking force strength for eggshell stability. *XII European Symposium on the Quality of Eggs and Egg Products, Czech Republic – Prague, September 2-5th, 2007.*
- (10) Mohamed M.A., A.H. Amer Eissa and H. Moustafa (2007). EFFECT OF MOISTURE CONTENT ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF CHICKPEA SEEDS. PROCEEDING OF THE FOURTH ERD6 CONFERENCE. FACULTY OF ENGINEERING, SHEBIN EL-KOM. CENTER OF RURAL DEVELOPMENT 23-25 OCTOBER 2007. PP, 416-433.
- (11) Amer Eissa A. H., and Gomaa. F. R. (2009). Operational Modal Analysis in Fruit Quality Assessment Using Different Methods of Packaging. Proceedings of the 8<sup>th</sup> Fruit, Nut and Vegetable Production Engineering Symposium, Concepcion Chile, 5-9-Jan., 2009.
- (12) Moustafa H., A.H. Amer Eissa and Mohamed M.A. (2009). Change in physical and mechanical properties of Soyabean seeds due to moisture. Proceedings of the First Nile Delta Conference on Export Crops, Fac. Of Agric., Minufiya Univ., 30-31 MARCH 2009. PP, 121-134.
- (13) Taha A. T., A.H. Amer Eissa, Gamea G. R. and Hidarh H. M. (2009). Simulation model of flat plate solar collector performance. Proceeding of the First Scientific Conference for Marketing the Applied University Research "Academic Research for the Service of Industry". Minufiya Univ., 7-8 OCTOBER 2009. PP, 421-443.
- (14) Ismail Z. I. and A.H. Amer Eissa (2009). Vertical brush metering device for sugar beet planting. Proceeding of the First Scientific Conference for Marketing the Applied University



Research "Academic Research for the Service of Industry".  
Minufiya Univ., 7-8 OCTOBER 2009. PP, 403-419.

- (15) **Ayman H. Amer Eissa and Abdul Rahman O. Alghannam (2012)**. Mathematical Modeling changes in rheological and mechanical properties of pears during storage under variable conditions. International Conference of Agricultural Engineering CIGR-Ageng. Valencia Conference Centre, July 8-12, 2012. Valencia, Spain.
- (16) **Amer Eissa A. H.** ; Gamea G. R. ; Aboamera M. A. and Ahmed M. E. (2012). MACHINE VISION PROTOTYPE FOR ORANGE GRADING USING PHOTOTRANSISTOR. International Conference of Agricultural Engineering CIGR-Ageng. Valencia Conference Centre, July 8-12, 2012. Valencia, Spain.
- (17) **Ayman H. Amer Eissa**, F. R. Gomaa, G. R. Gamea, and M. M. Azam (2012). Health Monitoring of Packed Agricultural Products Using Dynamic Analysis. Tropentag 2012, Resilience of agricultural systems against crises. Sep., 19-21, 2012 Gottingen, Germany.
- (18) **Ayman H. Amer Eissa**; Mostafa M. Azam and Abdul Rahman O. Alghannam (2013). Improving the Quality and Food Safety of Agricultural Products during Harvest and Postharvest Process. SOT Annual Meeting & ToxExpo. San Antonio, Texas, March 10-14, 2013. USA.

### 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.





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4- Manure handling and ammonia emissions.

5- Solar drying characteristics for some 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 connected .....Whatever 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.



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**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.**

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

Saudi Arabia, Jan., 2013

