

Mahmoud Kamal Ahmed Khedher-Agha, PhD

Instructor

Dept. Agricultural Machine and Equipment
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❖ EDUCATION

Doctorate Agricultural & Biological Engineering	December 2014
University of Florida, Gainesville, FL	
Master Agricultural Mechanization	November 2001
University of Baghdad, Baghdad, Iraq	
B.S: Agricultural Machinery	June 1998
University of Baghdad, Baghdad, Iraq	

❖ PRACTICAL EXPERANCE

Instructor , University of Baghdad, Agricultural Mechanization Department Baghdad, Iraq,	2015 – Present
Teaching, Mentor, Management (exam committee)	
Graduate Student University of Florida, Gainesville,	2010- 2014
Projects, taking classes and experiments, writing papers, Analyzing data	
Assistant Instructor , University of Baghdad, Agricultural Mechanization Department	Baghdad, Iraq, 2002 – 2009
Teaching, Mentor, Management (exam committee)	
Participant the Educational Developing methods of Teaching and University Staff Training,	
University of Baghdad	Baghdad, Iraq January 2003 - February 2003
Planning, Testing, Presenting	

❖ *Projects*

Sorption Isotherm

2011-2012

- Mango and Triticale, Equilibrium Moisture Content Curve, Mathematical model (prediction equation)

Seed Infestation

2012-2014

- Detection insect infestation in triticale seed, Spectral analysis, Protection seed storage system, Developing methods, Economic evaluation, Seed germination, Seed drying Insect infestation control

Fruit cold storage control

2015- Present

- Temperature and humidity control

❖ ***PUBLICATIONS***

1. Ahmed M.K., A.A. Al-Sabagh, M.H. Abdul-Abass, (2006). Study the effects of some mechanical factors on the performance of the hammer mill. The Iraqi J. Agric. Sci., v. 37 n (6):91-96
2. Ahmed, M.K. (2007): Effects of hammer speed and grain genus on hammer mill performance. The Iraqi J. Agri. Sci., v. 38 n (6):104-109
3. Khedher Agha M. K., Won Suk L., A. B. Ray, A. T. Arthur, and R. B. Ann. (2014) Sorption Isotherms for Triticale Seed. Transactions of the ASABE, Vol. 57(3): 901- 904, (doi: 10.13031/trans.57.10512)
4. Khedher Agha M. K. (2014), Detection and Protection of Triticale Seed from Infestation in A Storage System. PhD. Dissertation. University of Florida, USA.
5. Khedher Agha M. K., W. S. Lee, C. Wang, R. W. Mankin, A. R. Blount, R. A. Bucklin, N. Bliznyuk. (2017) Detection and prediction of Sitophilus

oryzae infestations in triticale via visible and near-infrared spectral signatures. Elsevier, Journal of Stored Products Research 72, 1-10

6. Khedher Agha M. K, Bucklin R. A., W. S. Lee, R. W. Mankin, A. R. Blount. (2017) Effect of Drying Conditions on Triticale Seed Germination and Rice Weevil Infestation. Transactions of the ASABE 60 (2), 571-575
7. Al-Juburi Bareq Salman A., Mahmoud Kamal Ahmed. (2018) Effect of Storage Temperature, Packing Type and Plant Extracts on Storage Local Orange Citrus SINESIS. L Fruit. Iraqi Journal for Agricultural Research. 23 (1), 80-91

❖ *Conferences*

1. Khedher Agha, M. K., W. S. Lee, C. Wang, R. W. Mankin, N. Bliznyuk, and R. A. Bucklin. 2013. Determination degrees of insect infestation in triticale seed using NIR spectroscopy. ASABE Paper No. 131592957. St. Joseph, Mich.: ASABE.
2. Khedher Agha, M. K., W. S. Lee, R. A. Bucklin, A. A. Teixeira, and A. Blount. 2013. Equilibrium moisture content equation for triticale seed. ASABE Paper No. 131620333. St. Joseph, Mich.: ASABE.
3. Khedher Agha Mahmoud K. Won Suk Lee. Ray A. Bucklin. Khedher agha, Khalid K. R. W. Mankin. (2015) The Effect of Drying on Triticale Seed Germination and Insect Mortality. American Society of Agricultural and Biological Engineers Annual International Meeting
4. Al-Juburi Bareq Salman A., Mahmoud Kamal Ahmed. (2017) Study the effect of some factors the temperature and the type of packaging

on the cold storage period of fruits. Thi-Qar University Journal for Agricultural Researches First Scientific Conference of Agricultural Research. P. 91-11

❖ *PROFESSIONAL EXPERIENCE*

Graduate Assistant University of Florida, Gainesville, Fall 2014
Projects, Experiments, writing papers and Analyzing data

Graduate Student University of Florida, Gainesville, 2010- 2014
Projects, classes, experiments, writing papers and Analyzing data

❖ *Affiliations*

Member, the Iraqi Agricultural Engineers Union, Iraq 1998-Present
Meeting, Presentations,

Member, American Society of Agricultural & Biological Engineers (ASABE) 2012-Present
Professional meetings, Committee, Conference presentation

Member, Alpha Epsilon at the University of Florida an Honor Society of Agricultural, Biological and Food Engineering 2012-Present
Meeting, Discussions, Network

Contribution, the 1st Annual Agricultural & Biological Engineers (ABE) Research Poster Symposium October 2013
Present poster, Discussion, Network