

Dr.-Eng. Amer Mohammad-Ali Mamkagh

Professor of Mechanical Engineering and Mechanization of Agriculture

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PERSONAL INFORMATION

Family name: Mamkagh

First name: Amer

Nationality: Jordanian

Marital status: Married

Languages: Arabic: mother language, Russian: excellent, English: very good

ACADEMIC QUALIFICATION

- Post Doctorate, Department of Mechanical Engineering, Texas Tech University, Lubbock, Texas, USA, 2012-2013

-Ph.D., Kabardino-Balkarian Agricultural State Academy, Nalchik, Russia, Mechanization of Agriculture, 1996.

-(B.S./M.S.) Kabardino-Balkarian Agricultural State Academy, Nalchik, Russia, Mechanization of Agriculture, 1992.

PROFESSIONAL EXPERIENCE

-Professor: Department of Plant Production, Faculty of Agriculture, Mutah University, Karak, Jordan. May 2009 - present.

-Associate Professor: Department of Plant Production, Faculty of Agriculture, Mutah University, Karak, Jordan, 2003-2009.

-Assistant Professor: Department of Plant Production, Faculty of Agriculture, Mutah University, Karak, Jordan, 1998-2003.

ADMINISTRATION

- Dean, Faculty of Agriculture, Mutah University, Karak, Jordan (2008-2010).

- Chairman, Department of Plant Production, Faculty of Agriculture, Mutah University Karak, Jordan (2006-2007).

- Assistant dean, Faculty of Agriculture, Mutah University, Karak, Jordan, (2000-2002).

COURSES

- Principles of Farm Machinery

- Farm Tractor

- Mechanization of Agriculture

- Seminar

- Applications in Agricultural Experiments

FIELD OF INTEREST

- Farm Tractor
- Farm Machines
- Tillage
- Solar Energy Applications
- Solar Water Desalination

AWARDS & FELLOWSHIPS

1. Fulbright Scholarship, Department of Mechanical Engineering, College of Engineering, Texas Tech University, Lubbock, Texas USA, 2012-2013. (Solar water Desalination). Research title: "Increasing the yield of solar still coupled to solar collector by using cooled opaque cover".
2. (DFG) German Research fellowship, German Research Foundation. Department of Solar Systems Engineering, Institute of Thermal Engineering, Kassel University, Germany, 2011. (Solar conditioning). Research title: "Optimizing a Solar Liquid Desiccant Dehumidifier Air Conditioning System".
3. (DAAD) German Academic Exchange Service, Institute of Thermodynamics, Faculty of Mechanical Engineering, Technical University of Munich, Munich, Germany, 2014. Research title: "Reverse Osmosis Plants Powered by Photovoltaic/Thermal Systems".

CONFERENCES, SEMINARS, PRESENTATIONS & SCIENTIFIC EXHIBITIONS:

1. Inter solar Europe exhibition, June 4 – 5, 2014, Munich, Germany.
2. Seminar on social entrepreneurship April 10th to 14th, 2013, Burlington, Vermont, USA.
3. Presentation: "Increasing the yield of solar still coupled to solar collector by using cooled opaque cover", Department of Mechanical Engineering, Texas Tech University, Lubbock, USA, 2013.
4. The Second International Conference on Alternative Energy, Technical Consultancy Center, Amman, Jordan (26-27 March 2012).
5. ISES Solar World Congress 2011, International Solar Energy Society, Kassel University, Kassel, Germany (28 August – 2 September 2011).
- 6- Presentation: "Solar Energy Applications in Jordan", Department of Solar Systems Engineering, Institute of Thermal Engineering, Kassel University, Kassel, Germany, 2011.
- 7- Third Agricultural Scientific Conference, Faculty of Agriculture-Muta'h University, Jordan (27-29 April 1999).

COMMITTEES

1. Head of Sub-commission at Higher Education Accreditation Commission, Amman, Jordan, 26/08/2014.
2. Committee member of the agricultural and veterinary sciences sector, Scientific Research Support Fund, Ministry of Higher Education, Amman, Jordan, 2012-2013.
3. Member of the Higher National Committee for Agricultural Research and Extension. (Prime Minister, letter No. 70/11/1/7597 dated 14/4/2009). Amman, Jordan.
4. Member of the National Center for Agricultural Research and Extension Council. (Minister of Agriculture, letter No. 12/17/1165 dated 19/3/2009). Amman, Jordan.

5. Committee member for Studying the Situation of the Scientific Agricultural Research in Jordan. (Minister of Higher Education and Scientific Research, letter No. 10/1/10853 dated 9/9/2008). Amman, Jordan.

UNIVERSITY COMMITTEES & BOARDS

1. University Disciplinary Appeals Board for the academic staff, member. 2014-2015.
2. Faculty Disciplinary Committee for students, head. 2014-2015.
3. Member of the Scientific Committee for Distinct Researcher Selection Award for (2008-2009). Mutah University, Karak, Jordan.
4. Graduate Studies Committee Head, Plant Production Department, Faculty of Agriculture, Mutah University, Karak, Jordan (2006-2007).
5. Member of the Editorial Board of Mutah Lil-Buhuth Wal-dirasat (Natural and Applied Sciences Series) (2004-2005). Mutah University, Karak, Jordan.

MEMBERSHIP

- 1997-present, Jordanian Engineers Association, Division: Mechanical Engineering, Amman, Jordan.
- 2017-present, U.S. Department of State Jordanian Alumni Association.

FUNDED PROJECTS

- Effect of Tillage Time and Plastic Mulch on Growth and Yield of Okra (*Abelmoschus esculentus*) Grown under Rain-fed Conditions. Deanship of Research. Mutah University. 2007 (9,000 JD).
- Efficiency improvement of the condensation pipes inside the soil for the basin type solar desalination unit. Scientific Research Support Fund. Ministry of higher education. Jordan . 2015 (35,000 JD).

FUTURE PROJECTS

- Performance enhancement of large solar still using nanofluid, solar heater and dehumidifier.
- Study of the multi-effect desalination process powered by solar energy, targeting the usage of secondary effluents from the industrial sector.
- Productivity enhancement of different types of solar desalination units by using an improved heat exchanger.

PUBLICATIONS

Accepted

Mamkagha A. M., Herzallaha S. M. and Al-Dabbasb M. A., 2019. Efficiency improvement of the condensation pipes in the soil for a basin type solar desalination unit. Mutah Lil-Buhuth Wad-Dirasat; Natural and Applied Sciences Series, in press.

Published

Mamkagh A. M., 2019. Review of Fuel Consumption, Draft Force and Ground Speed Measurements of the Agricultural Tractor during Tillage Operations. Asian Journal of Advanced Research and Reports 3 (4), 1-9.

- **Mamkagh A. M.**, 2019. Effect of Soil Moisture, Tillage Speed, Depth, Ballast Weight and, Used Implement on Wheel Slippage of the Tractor: A Review. *Asian Journal of Advances in Agricultural Research* 9 (1), 1-7.
- **Mamkagh A. M.**, 2018. Effect of Tillage Speed, Depth, Ballast Weight and Tire Inflation Pressure on the Fuel Consumption of the Agricultural Tractor: A Review. *Journal of Engineering Research and Reports*, 3(2); 1-7.
- **Mamkagh A.M.** and Anderson E., 2018. Condensation Rate Enhancement of the Inclined Condenser in the Solar Still Connected With a Solar Water Heater. *Engineering And Technology Journal* 3 (10), 492-497.
- **Mamkagh A.M.**, 2009. Effect of tillage and plastic mulch on growth and yield of okra (*Abelmoschus esculentus*) grown under rain-fed conditions. *International Journal of Agriculture and Biology*, 11(4): 453-457.
- **Mamkagh A.M.**, 2009. Effect of plowing speed, disk angle and tilt angle on farm tractor wheel slip and on plowing depth using disk plow. *Jordan J. Agric. Sci.*, 5(3): 352-360.
- Abdelrahman, M.M., **Mamkagh A. M.** and Hunaiti D.A. 2009. Trace minerals utilization and production efficiency of broiler chickens fed different levels of yeast culture and methionine. *Jordan J. Agric. Sci.*, 5(4): 458-471.
- **Mamkagh A.M.**, 2009. Some factors affecting wheel slip of a 2WD farm tractor. *Jordan J. Agric. Sci.*, 5(4): 519-525.
- Rawashdeh, A.Y.; J.M. El-Qudah; H. Al-Dmoor; M.M. Al-Qudah; **A.M. Mamkagh**; K.A. Tarawneh; A.D. Hawari; B.F. Dababneh; A.A. Al-Bakheit and M.A. Hadad. 2009. Iron bioavailability of rats fed liver, lentil, spinach and their mixtures. *Pak. J. Biol. Sci.*, 12(4): 367-372.
- Mahadeen, A.Y. and **A.M. Mamkegh**. 2008. Effect of planting date, spacing and clove size on garlic (*Allium Sativum L.*) yield under semi-arid conditions in Jordan. *Bulletin of Faculty of Agriculture, Cairo University* 59: 231-235.
- **Mamkagh A.M.**, 2008. The effect of the weights loading on the front of farm tractor on depth stability using disk plow *Bulletin of Faculty of Agriculture, Cairo University* 59: 1-5.
- **Mamkagh A.M.**, 2007. The effect of landside length on tractor fuel consumption and depth stability of moldboard plow. *Bulletin of Faculty of Agriculture, Cairo University* 58: 233-238.
- Alomary A.A., Hunaiti D.A. and **Mamkagh A.M.** 2003. Attitudes of the students of the faculty of agricultural towards agricultural education and its impact on identifying their occupational future. *Bulletin of Faculty of Agriculture, Cairo University* 54(3): 355-369.
- Huniti D.A. and **Mamkagh A.M.**, 2002. Economics of plowing productivity (Application study for barely crop). *Minufiya Journal of Agricultural Research* 28(4): 1093-1099.
- **Mamkagh A.M.**, 2002. Some factors affecting the tractor fuel consumption during the tillage. *Arab Universities Journal of Agricultural Sciences* 10(2): 441-452.
- **Mamkagh A.M.** 2002. The effect of forward speed, tillage angle and tilt angle on fuel consumption using disc plow. *Iraqi Journal of Agricultural Sciences*. 3(4): 100-104.

References

1. Prof. Dr.-Eng. Edward Anderson, Texas Tech University, Lubbock, Texas, USA, Email: ed.anderson@ttu.edu
2. Prof. Dr. Omar Kafawin, Former Dean of the Faculty of Agriculture, Jordan University, Amman, Jordan. Email: kafawin@ju.edu.jo

3. Prof. Dr. Ayed Al-Omari, Former Dean of the Faculty of Agriculture, Mu'tah University, Karak, Jordan, Email: ayomary@mutah.edu.jo