INTERNATIONAL AGRICULTURAL RESEARCH AND TRAINING CENTER/ İZMİR

# ÖMER SÖKMEN, M.Sc.

## Agricultural Engineer

## EDUCATION

**Assoc. prof**

**PhD**

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| **MSc**<br>1993-1995 | Ege University<br>Faculty of Agriculture |
| **Bachelor's Degree**<br>1982-1986 | Ege University<br>Faculty of Agriculture |
| **LANGUAGE** | English ÜDS 48 |

## CAREER

2008- Agricultural Engineer, International Agricultural Research and Training Center - İZMİR

1991-2008 Agricultural Engineer, Menemen Soil and Water Resources Research Institute - İZMİR

1990-1991 Agricultural Engineer, Provincial Directorate of Agriculture - İZMİR

1988-1990 Agricultural Engineer, Provincial Directorate of Agriculture – Şanlıurfa

## ABOUT ME

I was born in İzmir/Dikili in 1965. In 1986, I graduated from Ege University, Faculty of Agriculture. I completed my Master's Degree in 1995.

I worked on plant nutrition and soil fertility, organic Agriculture and soil pollution in many projects.

## CONTACT

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- **PROJECTS**
- **Projects Conducted**

1. Investigation of Boron Nutrition Levels and the Effects of Boron Fertilization on Yields of Vineyards in İzmir, Manisa, Denizli, (Researcher).

2. Determination of Plant Nutrient and Potential Toxic Element Scopes of İzmir-Manisa-Aydın Provinces Agricultural Soils. (GDAR, Project Leader)

3. Determination of Plant Nutrient and Potential Toxic Element Scopes of Turgutlu-Ahmetli-Salihli Plains Agricultural Soils (GDAR, Project Leader)

4. Agro ecological Zoning in the Middle Gediz Basin (GDAR, Researcher).

5. Determination of the Climatic Fluctuations Effects on Olive Trees with the Dendroclimatological Research in Izmir – Kemalpasa Region (GDAR, Researcher).

6. Determination of Effects of Organic and Conventional Farming Methods on Yield and, Quality of Vineyard and Cotton Soil Properties (GDAR, Researcher).

7. Determination of Heavy Metals and Plant Nutrient Content in Agricultural Areas That's Effected by Different Pollution Source of Salihli and Turgutlu Plains (GDAR, Researcher).

8. Effect of Elemental Sulfur on Cotton Plant Yield and Quality That is Applied in Different Level on Cotton Cultivation Lands in Aegean Region (TUBITAK, Researcher).

9. Nitrogen Fertilizer Requirements of Peach in Aegean Region (GDAR, Researcher).

10. Nitrogen and Phosphorus Fertilizer Request of Spinach under Menemen Plain Conditions, (GDAR, Project Leader).

11. Fertilizer Requirements of Leek under Menemen Plain Conditions, (GDAR, Project Leader)

12. Selection of Nodule Bacteria (Rhizobium phaseoli) Which Shows Maximum Nitrogen Detection Feature in the Greenhouse and Field Conditions on Aegean Region (GDAR, Project Leader).

13. Commercial Fertilizer Requirement of Potato, Phosphorus-Potassium Analysis and Calibration Methods Field Trials on Aegean Region Conditions.

- **PROJECTS**
- **Ongoing Projects**

1. ROAD4SCHEMES (EU - EJP Soil, Researcher).

2. CarboSeq (Soil organic carbon sequestration potential of agricultural soils in Europe) (EU - EJP SOIL, Researcher).

3. PROREFINE. Refined Forage Legumes as Local Sources of Protein Feed for Monogastrics and High Quality Fibre Feed for Ruminants in Organic Production, Assistant Researcher, CORE Organic Cofund EU PROJECT. (Researcher)

4. Effect of Alfalfa (Medicago sativa L.) Cultivated in Organic and Conventional Agriculture Systems on Soil Properties, Yield and CO2 Emission, (GDAR, Researcher)

5. Determination of Erosion Risk in Basin Scale, and Monitoring of Sediment and Organic Carbon Sources by Fingerprinting Technique. (Researcher)

6. Effect of Micro-Catchment Water Harvesting Technique on Olive Irrigation

7. Analysis and Modeling of the Effects of Climatic Variability on Coastal Aegean Olive Growing Areas, (Researcher).

ÖMER SÖKMEN, M.Sc.
Agricultural Engineer

- **PUBLICATIONS**
- **INTERNATIONAL ARTICLES AND PAPERS**
- **Articles Published in International Journals**

- **International Papers, Seminars, etc.**

1. ÖZDEN, N., KARAGÜL, V., SÖKMEN, Ö., CANDAN, N., ŞEN, S., Ertürk, A., 2016. Microelement Contents in Soil and Plant in Aegean Region Vineyards, AgroBor 2016, International Symposium on Boron in Agriculture, 16-18 November 2016.

2. Etöz M., Sökmen Ö., Yüceerim G. 2016. Monitoring and usage areas of phenological stages with BBCH scale on olive trees (Olea europaea), 27th International Scientific-Expert Congress of Agriculture and Food Industry, 26-28 September 2016.

3. Erdal Ü., Ongun A. R., Sökmen Ö., 2016. Temporal effects of organic and conventional farming systems on the chemical properties of vineyard. 27th International Scientific-Expert Congress of Agriculture and Food Industry, 26-28 September 2016 / BURSA.

4. Erdal Ü., Sökmen Ö., Ongun A. R., Ertem A., 2014. Effect of Conventional and Organic Farming Systems On Yield and Quality of Vineyards / 18th IFOAM Organic World Congress 13-15 Ekim 2014, ISTANBUL.

5. Bilgin E. A., Yakar M. Sökmen Ö., Üner K.,1998.Determination of Phosphorus and potassium Fertiliser Reguirements and Olsen Soil Analysis Methot of Calibration of Potato in Aegean Region (in Turkish). M. Şefik YEŞİLSOY Internatıonal Symposıum on Arıd Regıon Soil s:711.

6. Erdal,Ü., Ö.Sökmen.2017. Comparing Soil Properties in Organic and Conventional Cotton Growing. 1st International Organic Agriculture and Biodiversity Symposium. Bayburt Türkiye

7. Erdal,Ü.,K,Ölgen.,Ö,Sökmen. 2016. Assesment and Spatial Distrubution of Phosphorus, Potassium, Boron, and Lime in the Middle Gediz Basin (Turgutlu-Salihli) of Turkey. 27Th International Scientific- Expert Congress of Agriculture and Food Industry. Bursa, Turkey

8. Ongun A.R., Erdal U., Sökmen Ö. 2012. "Temporal Effects of Conventional and Organic Farming Systems on Physical Properties of Typic Xerofluvent Soil", 8th International Soil Science Congress on ”Land Degradation and Challenges in Sustainable Soil Management”, vol.1. Çesme, Izmir, Turkey

- **PUBLICATIONS**
- **NATIONAL ARTICLES AND PAPERS**
- **Articles Published in National Journals**

1. ÖZDEN, N., USLU, İ., SÖKMEN, Ö., METİNOĞLU, F., 2021. Fertility and Microelement Mapping of Agricultural Soils in İzmir, Soil-Water Journal, 2021, Special Issue: (31-40).

2. Erdal,Ü.,Ö.Sokmen, A. Ongun. The Effect of Organic and Conventional Cotton Growing on Soil Physical Properties in Aegean Region Conditions. ETO 6th Organic Agriculture Symposium 2019. Gaziemir, İzmir.

- **International Papers, Seminars, etc.**

1. Okur N., Özsoy U., Göçmez S., Sökmen Ö.,2006. Microbial Activity in Soils Under Organic and Conventional Agriculture Systems. 3rd Turkish Organic Agriculture Symposium. Yalova.

2. Sökmen Ö., Üner K.,2004. General Criteria for Interpretation of Soil Fertility Analysis and Applicable Commercial Fertilizers. Aegean Agricultural Research Institute., Publication No:117, Menemen, p:136.

3. Özsoy Ü., Okur B., Ertem A., Sökmen, Ö., Okur N., Çakmak R., Üner K., Anaç D., Göçmez S., Bilir L., Ongun A. R.,2003. Determination of the Effects of Ecological and Traditional Agricultural Practices on Yield, Product Quality and Soil Properties in the Vineyard, Aegean Agricultural Research Institute., Publication No :111, MENEMEN, p:75-86.

4. Bilgin E., Yakar A. M., Sökmen Ö., Üner K., 1994. Calibration of Commercial Fertilizer Demand and Phosphorus-Potass Analysis Methods of Potatoes through Field Experiments under Aegean Region Conditions Rural Affairs Research Institute Menemen/İzmir.

5. Erdal ,U.,O.Sökmen, A. Ongun,Ozbek,N.,2010. Ege Bölgesinde , The Effect of Organic and Conventional Cultivation Techniques on Cotton Yield and Quality Criteria in Menemen Plain. 4th Organic Agriculture Symposium Erzurum, Türkiye.

6. Erdal, U., Ölgen.,K,Sökmen.,O.2009. Determining Organic Agriculture Areas Using Agro Ecological Zoning Model in the Middle Gediz Basin in the Aegean Region. 1st GAB Organic Agriculture Congress, Şanlıurfa, Türkiye.

7. Okur, N., Özsoy, S, Göçmez ve Ö, Sökmen,. 2006 Microbial Activity in Soils in Organic and Conventional Agriculture Systems. 3rd Turkish Organic Agriculure Symposium. Yalova

- **OTHER PUBLICATIONS**
- **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

1. N. ÖZDEN, N. CANDAN, V. KARAGÜL, Ö. SÖKMEN, S. ŞEN, A. ERTÜRK, 2019. 1. Investigation of Boron Nutrition Levels and the Effects of Boron Fertilization on Yields of Vineyards in İzmir, Manisa, Denizli (Project Result Report).

2. ÖZDEN, N., USLU, İ., SÖKMEN, Ö., ARAS, S., ALKAN, Ü., ŞEN, O. F., ŞEN, S., CANDAN, N., METİNOĞLU, F., RAHMANOĞLU, N., GÖÇMEZ, S., 2018 2.Determination of Plant Nutrient and Potential Toxic Element Scopes of İzmir-Manisa-Aydın Provinces Agricultural Soils (Project Result Report).

3. Hakerlerler H., Yağmur B., Kınlınç R., Anaç D.,Ongun A.,Kılıç C., Kayıkçıoğlu H., Gürel A.,Bora Özaktan H., Akdemir H.,Yaşar İ., Yücel Ö., Karadayı B., Sökmen Ö., Ozsoy Ü., Çakır M., Sokat Y.,Güleç I., Savru H., Yağmur F.,Demirkan A., Çaylı İ., Karadağ K., 2007. The Effect of Elemental Sulfur Applied at Different Levels on the Cotton Farming Soils of the Aegean Region on Cotton Yield and Quality. TÜBİTAK TOGAG-2007.

4. Üner K., Sökmen Ö., Gündüz M.,2004. Nitrogen Fertilizer Requirement of Peach in Aegean Region. Soil and Water Resources Research Almanac. Ankara, Publication No: 124, p: 221-235.

5. Kaya Ş. Sökmen Ö.,2002. 12. Selection of Nodule Bacteria (Rhizobium phaseoli) Which Shows Maximum Nitrogen Detection Feature in the Greenhouse and Field Conditions on Aegean Region. Soil and Water Resources Research Almanac. Ankara.

6. Sökmen Ö., Özsoy Ü., Üner K.,2002. 10. Nitrogen and Phosphorus Fertilizer Request of Spinach under Menemen Plain Conditions. Soil and Water Resources Research Almanac. Ankara p:381.

7. Sökmen Ö. Öden O. Akbaş F.,2001. 11. Fertilizer Requirements of Leek under Menemen Plain Conditions. Soil and Water Resources Research Almanac. Ankara.

8. Erdal,Ü., Sökmen,Ö., Özden,N.,Göçmez,S., Bilir,L., Metinoğlu,F., Üner,K. 2013. 4. Agro ecological Zoning in the Middle Gediz Basin. The Ministry of Food, Agriculture and Livestock. GDAR. Project Result Report. UTAEM 2013-01. International Agricultural Research and Training Center. Menemen-İzmir, Türkiye.

- **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**