



Hatay Mustafa Kemal University  
Faculty of Agriculture  
Department of Biosystems Engineering



## **1st International Congress on Biosystems Engineering**

**(ICOBEN2019)**

<http://icoben2019.mku.edu.tr>

# **CONGRESS PROGRAM**

24-27 September 2019

Ataturk Conference Halls  
Tayfur Sokmen Campus  
Hatay Mustafa Kemal University  
Antakya, Hatay, Turkey

(Final Version, 23.09.2019)

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## SUPPORTING SPONSORS



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## **Introduction of the Congress**

Dear Colleagues,

We are very pleased to organize the 1st International Congress on Biosystems Engineering (ICOBEN2019) on 24-27 September 2019 at Ataturk Conference Halls on Tayfur Sokmen Campus of Hatay Mustafa Kemal University located in Antakya, Hatay, Turkey which is home to the oldest civilizations in the history of humanity.

The main purpose of the congress is to create a venue to discuss the various current and near-future applications of engineering practices and means of operations used in Turkey and in the world within the scope of Biosystems Engineering including Land and Water Resources Planning, Agricultural Machinery Systems, Energy Systems and Plant and Animal Production Structures. In this context, many researchers and academicians in addition to the related entrepreneurs and manufacturers from Turkey and abroad have the opportunity to transfer their experiences and ideas to their colleagues and stakeholders.

The congress venue is Antakya city (Antioch) of the Hatay province, which has many cultures and where people from many different religions have had a living space in harmony and peace. It has a sacred pilgrimage place for Christians (St. Peter's Church) and Muslims (Habibi Neccar Mosque) and selected as the World Gastronomy City by UNESCO and it will offer not only an academic but also a different cultural perspective to the participants and the guests.

About 120 proceedings were included in the congress program. All submitted research articles were evaluated by at least two independent reviewers in terms of scientific content and quality. Selected full papers or abstracts will be published in the Congress Proceedings E-Book while selected full papers will be published in the Agricultural Faculty Journal of Hatay Mustafa Kemal University after the congress.

We thank all of the sponsors that support this conference financially without which this congress could not be a successful organization.

We welcome you to the congress and we are very grateful for your participation.

**Congress Organizing Committee**

## **Congress Organizing Committee**

### **Honorary Members**

Prof. Dr. Hasan KAYA (Honorary Chair), Rector of Hatay Mustafa Kemal University  
Prof. Dr. Okan ŞENER, Dean of Faculty of Agriculture, Hatay Mustafa Kemal University

### **Congress Organization Committee Chair**

Prof. Dr. Berkant ÖDEMİŞ, Head of Department of Biosystems Engineering

### **Congress Organization Secretary**

Assoc. Prof. Dr. Muharrem KESKİN, Department of Biosystems Engineering  
Assoc. Prof. Dr. Ahmet İRVEM, Department of Biosystems Engineering

### **Organization Committee Members**

Prof. Dr. Yurtsever SOYSAL, Department of Biosystems Engineering  
Assoc. Prof. Dr. Cengiz KARACA, Department of Biosystems Engineering  
Asst. Prof. Dr. Selçuk UĞURLUAY, Department of Biosystems Engineering  
Asst. Prof. Dr. Zekai GÜMÜŞ, Department of Biosystems Engineering  
Asst. Prof. Dr. Ömer EREN, Department of Biosystems Engineering  
Res. Asst. Dr. Yunus Emre ŞEKERLİ, Department of Biosystems Engineering  
Res. Asst. Derya KAZGÖZ CANDEMİR, Department of Biosystems Engineering  
Res. Asst. Mustafa ÖZBULDU, Department of Biosystems Engineering

**24 September 2019 Tuesday (Day 1) – Morning Session**  
**OPENING OF THE CONGRESS**  
**(HALL 1)**

<b>8:30</b>	Pickup from the Hotels (Öğretmenevi, Saray Hotel, Narin Hotel, DSI Guest House, Polisevi, Anemon Hotel)
<b>9:00-9:45</b>	Registration Tea and Coffee
<b>9:45-10:45</b>	<b><u>Opening Session:</u></b> National Anthem Introduction Video of Hatay Province Introduction Video of Hatay Mustafa Kemal University
	<b><u>Opening Speeches:</u></b> Prof. Dr. Berkant ÖDEMiŞ (Chair of the Congress Organizing Committee) Prof. Dr. Okan ŞENER (Dean of the Faculty of Agriculture) Assoc. Prof. Dr. Lütfü SAVAŞ (Mayor of Hatay Metropolitan Municipality) Prof. Dr. Hasan KAYA (Rector of Hatay Mustafa Kemal University)
<b>10:45-11:00</b>	<b>Acknowledgement of the Congress Sponsors</b>
<b>11:00-12:30</b>	<b><u>Keynote Speeches:</u></b>  1) Irrigation, Drainage and Land Consolidation Applications in Turkey (Faruk Fıratoğlu, Turkish State Hydraulic Works, DSI)  2) Seeding for Smart Farming (Ali Özbuğday, ProGen Seeds)  3) Shaping the Future for Agriculture (Natan Barak, Netafim)  4) Benefits of Precision Agriculture Technologies (Sökmen Kan, Trimble Turkey)
<b>12:45-13:45</b>	<b>Lunch (Hatay Mustafa Kemal University Dining Hall)</b>

## 24 September 2019 Tuesday (Day 1) – Afternoon Sessions

<b>Session1-1</b>  <b>14:00-15:15</b>	<b>Hall 1; Moderator: Abdülhalim Orta</b> <span style="float: right;"><b>Irrigation</b></span>
	Determination of Adıyaman Waste Water Treatment System Performance (1209) A.M.Ketenci, S.Tekin
	Irrigation scheduling based on Crop Water Stress Index (CWSI) for cool and warm-season turf grass under sub-drip irrigation method (0021) C.S. Oncel, M. Todorovic, A.H. Orta
	Farklı Damlatıcı Debilerinin Topraktaki Nem Dağılımına Etkisi ve HYDRUS-2D/3D Programı İle Modellenmesi (1230) Filiz Kara
	Response of Okra to Water Stress (1075) A. Ünlükara, B. Cemek
	<b>Hall 2; Moderator: Sedat Karaman</b> <span style="float: right;"><b>Agricultural Structures</b></span>
	Investigation the Use of Different Material on the Barns Construction (1096) H. Er, Y. Kuşlu
	Determination of Greenhouses and Its Insurance Conditions Damaging from Natural Disasters Occurred in Districts of Eastern Antalya Region (1108) R. Çalışkan, K. Büyüктаş, A. Tezcan, C. Karaca
	Determination of the Intensity of Hail Damage of the Polyethylene Greenhouse Covers in the Mediterranean Region by Thermal Camera (1109) K.Büyüктаş, A.Tezcan, C.Karaca, Z.Gümüş, R.Çalışkan
	Investigation of Climate Change over Heat Cost of Greenhouses in Adana producing Tomato (Solanum Lycopersicum L.) using Expert Greenhouse Software SERASIM (1149) Burak Şen, Bora Şen
	<b>Hall 3; Moderator: Muharrem Keskin</b> <span style="float: right;"><b>Machinery Systems</b></span>
	Determination of Live Tree Trunk Diameter with Near Distance Imaging (1026) H.Karadöl, A.Aybek
	Modal Analysis of Different Boom Designs of Field Sprayers with a CAD Program (0016) Medet İtmeç, Ali Bayat
	The Current State of Sprayer Manufacturers in Turkey and Some Strategies for the Future (0019) Ali Bayat, Medet İtmeç
Labour Requirements and Harvest Cost in Melon Harvesting in Kırıkhan (1147) Selcuk Ugurluay	
<b>15:55-15:40</b>	<b>Coffee Break</b>
<b>15:40-15:45</b>	<b>Congress Participants Photo</b>
<b>Session1-2</b>  <b>15:45-17:00</b>	<b>Hall 1; Moderator: Yeşim Ahi</b> <span style="float: right;"><b>Irrigation</b></span>
	Artificial Neural Network Algorithm for Estimating Sugar Beet Irrigation Water Requirement in Çumra (1037) Sevim Seda Yamaç
	Seedling Growth Characteristics of Wheat Seeds Grown at Different Groundwater Depths, Without Irrigation (1045) M.S. Kiremit, H. Arslan
	Determination of Nitrogen Usage Efficiency in Eggplant Plant Irrigated by Surface and Subsurface Drip Irrigation Method in Çukurova Conditions (1128) E. Gönen, Ç. Tanrıverdi, Y. Bozkurt Çolak, A. Yazar, M.Ozfidaner
	The Effects of Different Irrigation Methods on Rice (Oryza sativa L.) Yield and Yield Characteristics (1052) Selçuk Özer, Yeşim Ahi
	<b>Hall 2; Moderator: Adil Akyüz</b> <span style="float: right;"><b>Agricultural Structures</b></span>
	Investigation and Development Opportunities of Siirt Province in Terms of Greenhouse (1167) Burak Saltuk
	The effects of environmental conditions in cottonseed storage plants on seed quality (1181) Merve Saylam, Zekai Gümüş
	Investigation of TR63 Region Climate Conditions in terms of Greenhouse (1183) Nafi Baytorun, Adil Akyüz, Sait Üstün, Ali Çaylı
	<b>Hall 3; Moderator: Ahmet Kamil Bayhan</b> <span style="float: right;"><b>Machinery Systems</b></span>
	Comparison of ISO 1983, ISO 1996 and ISO 2007 Tests of Milking Machines (1071) S. Seçer, A.K. Bayhan
	An Investigation of the Effectiveness of Equipment and Machinery Supports: A Case Study of Karaman Province (1086) Oğuz Gül
	Determination of Leaf Area of Some Vegetable Plants Grown under Greenhouse Condition by Non-Destructive Methods (1111) C. Karaca, R. Baştuğ, D. Büyüктаş, K. Aydınşakir, S. Şehir
	Determination of Basic Parameter Values for Agricultural Mechanization Level of Agricultural Enterprises in Selçuk District of İzmir Province (1116) Cevdet Sağlam, Necati Çetin
<b>19:30</b>	<b>Dinner1 (Bogaziçi Restaurant, Harbiye)</b>

Each presentation lasts 15 minutes. Every session has a discussion section of 15 minutes at the end.

## 25 September 2019 Wednesday (Day 2) – Morning Sessions

<b>8:30</b>	Pickup from the Hotels (Öğretmenevi, Saray Hotel, Narin Hotel, DSI Guest House, Polisevi, Anemon Hotel)																														
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<b>12:45-13:45</b>	<b>Lunch (Hatay Mustafa Kemal University Dining Hall)</b>																														

Each presentation lasts 15 minutes. Every session has a discussion section of 15 minutes at the end.

## 25 September 2019 Wednesday (Day 2) – Afternoon Sessions

9:30-16:00	<b>Poster Presentations</b> <b>Venue: In front of the Congress Halls</b>
14:00-15:30	<b>Meeting for Heads of Biosystems Engineering Departments</b> <b>(Venue: Meeting Room of the Faculty of Agriculture)</b>
<b>Session2-3</b>  <b>14:00-15:30</b>	<b>Hall 1; Moderator: Ali Fuat Tari</b>
	<b>Irrigation</b>
	Effect of Different Boron Contents in Irrigation Water on The Development of Cotton (1159) İbrahim Halil Çevik, Ali Fuat Tari
	Comparison of Two Lateral Move Irrigation Machines Used Commonly in Turkey in Respect of Water Uniformity Coefficient (1097) Hüseyin T. Gültaş, Daniyal D. Köksal, Murat Karaer, Yeşim Ahi
	A Practice-oriented Review of Bioreactors for Subsurface Agricultural Drainage (1103) A.O. Demir, H. Kuşçu, E. Kurtulmuş
	Assessing salt accumulation in the rootzone of tomato plant through using ordinary kriging interpolation technique under deficit irrigation regime (1125) A. Ghannem, I. Ben Aissa, M. Cetin, R. Majdoub
	<b>Hall 2; Moderator: Mustafa Acar</b>
	<b>Energy Systems</b>
	Energy Potential Evaluation of Agricultural Residues in Bursa ( 1200) Aslı Ayhan Arslan
	Determination of Energy Efficiency, Greenhouse Gas (GHG) Emissions and Environmental Prices of Carrot (Daucus carota) Production in Hatay Province (1162) Ömer Eren
	Determination of Environmental Problems Caused by Agricultural Wastes in Greenhouse Enterprises and Solution Suggestions (1165) Sedat Boyacı, Sinan Kartal
	Briquetting of Corn Stalk as a Renewable Energy Source and Determination of Physical Properties of Briquettes (1184) Mahmut Dok, Mustafa Acar, Ayşegül E. Çelik, Gülhan Atagün, Ufuk Akbaş
	Determination of the Energy Input-Output Analysis and Economic Efficiency of Pumpkin Seed Production: A Case Study of Nevşehir Province (1225) Osman Gökdoğan, Oktay Erdoğan, Halil İbrahim Oğuz
	<b>Hall 3; Moderator: Necat Ağca</b>
	<b>Soils</b>
Evaluation of Agricultural Fields in Terms of Soil Productivity and Environmental Health in the Industrial Zone (1059) Serdar Polat, Korkmaz Bellitürk, Meryem Metinoğlu	
Irregular Aggregate Stability Conditions of Common Soil Series in Harran Plain (1088) Ali Rıza Öztürkmen, Yasemin Savaş	
Assessment of Ammonium, Nitrate and Phosphorus Pollution in Asi River (0004) Necat Ağca, Kemal Doğan	
The Idea of Cultivation in Desert (1189) Ç. Palta, D.A. Çarkacı, Z.Ü. Argon, E. Gönülal	
19:30	<b>Dinner2 (Petek Mutfak, İskenderun Sahil)</b>

Each presentation lasts 15 minutes. Every session has a discussion section of 15 minutes at the end.



## 26 September 2019 Thursday (Day 3) – Morning Sessions

<b>8:30</b>	Pickup from the Hotels (Öğretmenevi, Saray Hotel, Narin Hotel, DSI Guest House, Polisevi, Anemon Hotel)		
<b>Session3-1</b>	<p><b>Hall 1; Moderator: Berkant Ödemiş</b> <span style="float: right;"><b>Irrigation</b></span></p> <p>Relationships among Salt or Drought Tolerance and Grafting in Eggplant (1049) S. Kiran, Ş. Kusvuran, C. Ates, S.S. Ellialtıoğlu</p> <p>The Effects of Deficit Irrigation Technique on Second Crop Sweet Sorghum Biomass and Bioethanol Yield (1180) M. Dündar, M. Ünlü, C. Yücel</p> <p>Effects of Four Irrigation Levels and Bio-activator Application on Strawberry Fruit and Leaf Calcium Concentration (1211) E. Çeliktöpez, B. Kapur, M. Sarıdaş, S. Paydaş Kargı, B. Özekici</p> <p>The Effects of Deficit Drip Irrigations on Water Yield Relationships in Royal Table Grape Variety in Çukurova Conditions (1130) Y. Bozkurt Çolak, A. Yazar, S. Tangolar, G. Duraktekin, E. Gönen</p> <p><b>Hall 2; Moderator: Ahmet İrvem</b> <span style="float: right;"><b>Climate</b></span></p> <p>Determination of the Average Temperature Data: Antalya and Alanya Case (1031) Met e Özfidaner, Duygu Şapolyo, Fatih Topaloğlu</p> <p>Analysis of Climatic Parameters in Cukurova Region (1080) Volkan Çatalkaya, Nigar Anğın</p>		
	<b>9:30-10:45</b>	<p>Application of machine learning methods in monthly precipitation modeling (Chahbahar Station, Iran) (1101) Fatemeh Shaker Sureh, Mohammad Taghi Sattari, Ahmet İrvem</p> <p>Effects of Climate Change on Grapevines Vegetative and Reproductive Growth (1156) T. Kizildeniz, I. Pascual, J.J. Irigoyen, F. Morales</p> <p><b>Hall 3; Moderator: Ali Ünlükara</b> <span style="float: right;"><b>Soils</b></span></p> <p>Effects of Different Nitrogen Rate Applications During Sowing to Pumpkin (Cucurbita pepo L.) Growth, Yield, Evapotranspiration and Water Use Efficiency (1030) A. Ünlükara, N. Dumanlar, A. Güneş</p> <p>The Effect of Solid Biochar on Soil Properties (1032) Saliha Dorak , Barış Bülent Aşık</p> <p>Effects of Humic Acid on Plants Yield and Growth and Effect of Gypsum in Alkali Soil Conditions (1042) A.M. Ağar, A.İ. Ağar, T. Yeter, İ. Yurdakul, M.A. Altundağ</p> <p>Effects of Bacteria and Methylamine Application on Morphology of Squash Seedlings under Drought Stress (1073) M. Ekinci, E. Yıldırım, Ü. Şahin, S. Örs, A. Dursun, R. Kotan, M. Turan, İ. Demir</p>	
	<b>10:45-11:15</b>	<b>Coffee Break</b>	
	<b>Session3-2</b>	<p><b>Hall 1; Moderator: Sultan Kıymaz</b> <span style="float: right;"><b>Irrigation</b></span></p> <p>The Effect Of Different Irrigation Programs On Chlorophyll Content In Watermelon (1133) G. Duraktekin, Y. Bozkurt Çolak, M. Özfidaner, A. Baydar</p> <p>Responses of common bean (Phaseolus vulgaris L.) cultivars to drought stress (1158) S. Kıymaz, R. Beyaz, S. Kıymaz</p> <p>A remote sensing-based irrigation performance assessment: A case study of the Kemalpaşa irrigated scheme in Turkey (1172) Kemal Sulhi Gündoğdu, Alidou Sawadogo</p> <p><b>Hall 2; Moderator: Yasemin Kuşlu</b> <span style="float: right;"><b>Climate</b></span></p> <p>Understanding the farmers' practices, adaptive capacity to respond, and willingness to adopt for climate-smart agriculture (CSA) in Pakistan (1175) Asif Sardar, Adıqa K. Kiani, Yasemin Kuşlu</p> <p>Hydrological Drought Analysis for The Eastern Mediterranean Region in Turkey Using SPI (1187) Ahmet Sağlamoğlu, Ahmet İrvem</p> <p>Drought Period Analysis using SPI for Muğla, Turkey (1221) Ahmet İrvem, Mustafa Özbuldu</p> <p><b>Hall 3; Moderator: Köksal Aydınşakir</b> <span style="float: right;"><b>Soils</b></span></p> <p>Monitoring Soil Electrical Conductivity as an Agricultural Management Tool in Drip-Irrigated Citrus Field Via EM38 (1210) B. Kapur, M. Çetin, H. Kaman, E. Çeliktöpez</p> <p>Forage Crops in Terms of Organic Fertilizer Efficiency (1213) Ayşe Mine Yıldız, Müge Erkan Can</p> <p>A Review on the Relationships of Forage Crops Grown in Hydroponics Conditions and Animal Product Quality (1214) Ayşe Mine Yıldız, Müge Erkan Can</p>	
		<b>11:15-12:30</b>	
		<b>12:45-13:45</b>	<b>Lunch (Hatay Mustafa Kemal University Dining Hall)</b>

Each presentation lasts 15 minutes. Every session has a discussion section of 15 minutes at the end.

## 26 September 2019 Thursday (Day 3) – Afternoon Sessions

<b>Session3-3</b>  <b>14:00-15:15</b>	<b>Hall 1; Moderator: Hasan Değirmenci</b>	<b>Irrigation</b>
	Effect of Foliar Sulfur Applications on Some Yield Parameters in Reducing Water Stress Applied to the Cotton Plant During Different Development Periods (1173) Derya Kazgöz Candemir, Berkant Ödemiş	
	Assessment of Irrigation Schemes with Quality Index in Mediterranean Region (1185) Hasan Değirmenci, Sinan Kartal	
	Determination of Lavandula officinalis plant growth in pot conditions under dry conditions in Nigde Region (1191) B. Şen, G. Sandal Erzurumlu, M. H. Noory and H. Erinç	
	Water-Yield Relationships of Grapefruit under Different Subsurface Drip Irrigation Strategies (1197) K. Aydınsakir, N. Dinç, M. Işık, R. Baştuğ, A. Bayir Yeğün, S. Bayram	
	<b>Hall 2; Moderator: Mahmut Çetin</b>	<b>Hydrology</b>
	Evaluation of Hydraulic Factors on Control of Water Bridges and Van Province Example (0020) Ünal Şirin, Abdurrahman Hanay, Şefik Tüfenkçi	
	WinTR-55 Model Aided Analysis of Creeks and Ponds Basins in Turkey (1041) Çayan Alkan	
	The use of universal kriging interpolation technique to determine groundwater levels in dry and wet years: A case study in a semi-arid region of Mahdia in Tunisia (1124) R. Soula, A. Chebil, M. Cetin, R. Majdoub	
	<b>Hall 3; Moderator: Kemal Doğan</b>	<b>Soils</b>
	Changes in Hydraulic Properties of Bacteria and Sewage Sludge Applied Sandy Soil (1074) Üstün Şahin, Selda Örs, Recep Kotan, Mehmet Altun	
	Determination of rhizobial potentials as Agriculture and Environment Factor in legume cultivation areas in Hatay (1152) Fatih UYAR, Kemal DOĞAN	
The Effect Of Calcium (Ca+2) Applications On R/S Values in Tomato And Pepper Soils (1153) Kemal DOĞAN, Sefer BOZKURT, Necat AĞÇA		
Calibration and Comparison of Soil Moisture Measurements (1502) I. Adamonytė, L. Taparauskienė, V. Grybauskiene, G. Vyciene		
<b>15:15-15:30</b>	<b>Coffee Break</b>	
<b>Session3-4</b>  <b>15:30-16:45</b>	<b>Hall 1; Moderator: Ali Osman Demir</b>	<b>Irrigation</b>
	Determination of Relationship Water-Yield of Inoculated and Uninoculated Soybean in The East Mediterreanean Climatic Conditions (1199) Zeynep Karakaya, Berkant Ödemiş	
	Effects of Different Moisture Levels on Yield and Quality of Almonds in Sub-Surface Drip Irrigation System (1215) Serkan Kösetürkmen, Cem Bilim, Nevzat Aslan, Ajlan Yılmaz, Yusuf Aydın	
	Quality parameters evaluation of Spruce (Picea abies) seedlings growing at open nursery (1503) R. Rolbiecki, S. Rolbiecki, V. Grybauskiene, G. Vyciene	
	<b>Hall 2; Moderator: Ahmet Irvem</b>	<b>Hydrology</b>
	Mapping Spatio-temporal Tendencies of Climate Types in Geographic Information Systems (GIS) Media: A Case Study in Şanlıurfa and Its Environs (1144) A.D. Keskiner, M. Çetin, T. Nagano	
	Complexities of transboundary flood risk management in the Maritsa/Meric/Evros Basin (1501) Jeroen Warner, Anusha Sanjeev Mehta	
	Identification of Water Table and Ground Water Potential Zones using Remote Sensing and GIS Techniques in Southern Haripur Tehsil, Province Khyber Pakhtunkhwa, Pakistan (1091) R. Jamal, S.R. Ahmad, S. Jamal, R. Jamal	
	<b>Hall 3; Moderator: Selda Örs</b>	<b>GIS</b>
	The Impacts of Land Consolidation Studies on Erzurum Agricultural Enterprises (1098) Yasemin Kuşlu	
Measuring Parcel Shape Complexity: An Application of New Shape Index (1186) Hasan Değirmenci, Fırat Arslan		
<b>16:45-17.15</b>	<b>Closing Remarks and Evaluation of the Congress</b>	
<b>19:30</b>	<b>Dinner3 (Konak Restaurant, Saray Caddesi, Antakya)</b>	

Each presentation lasts 15 minutes. Every session has a discussion section of 15 minutes at the end.

## Poster Presentations\*

**25 September 2019 Wednesday (Day 2)**

**Venue: In front of the Congress Halls**

Some Methods and Technologies Used for Hydrological Studies (1040) Çayan Alkan
What GAP has gained and lost to our agriculture (1067) Ali Rıza Öztürkmen
Description of the Structure of the Greenhouse by the Way Sample of Bilecik (1081) Ahmet Tuna Cömert
Evaluation of the Relation between Aggregate Stability and Aspect of Bingöl Çapağçur Basin Soils (1090) Yasin Demir, Hasan Er, Ramazan Meral
Effect of Grayscale Level on Spray Coverage Ratio of Water Sensitive Paper Images (1126) Bahadır Sayıncı, Bünyamin Demir
Development of an Experimental Unit for Grape Juice Research (1131) Levent Taşeri
Effect of Air Velocity on Some Quality Parameters of Grape Pomace Dried with A Hot Air Dryer (1132) Levent Taşeri , Mehmet Gülcü, Gamze U. Seçkin
Effects of climate change over potato (Solanum Tuberosum L.) production (1148) Burak Şen, Selina Güngör
Calculation of the Heat Requirement of Modern Greenhouses in Antakya According to Different Temperatures (1150) Sait Üstün, Abdulkadir Özgüler, Katibe Gülşah Bolat, Mehmet Emin Baran
Determination of Phosphorus and Potassium Levels in Greenhouses: The Case of Fethiye Region (1154) İbrahim Demirebilek, Atılğan Atılğan
A Research on the Distribution of the Use of Underground Greenhouses in Our Country (1169) Ünal Şirin, Sedat Karaman, Ömer Anapalı
Agriculture and Biofuels (1178) Mustafa Acar
Oxidation of Glycerol Using Metal Organic Frameworks for Sustainable Production of Fine Chemicals (1188) S. Dogruyol, V. Degirmenci
A Research on the Use of Soil Tillage Implements of Konya Province (1192) Mehmet Zahid Malaslı, Çetin Palta
Fluctuations of Water Table Level and Quality in Nıksar Plain (1212) D. H. Şahin and H. Şimşek
Current Status and Potential Improvements for Under-Cover Production Systems in Çarşamba Town of Samsun Province (1027) Emin Atay, Sedat Karaman

\*Presenter of each poster must be available near the poster to present its content to the visitors.

**Congress Excursion Program  
27 September 2019 Friday (Day 4)**

<b>Time</b>	<b>Activity</b>
7:30-16:00	<p>Pickup from the Hotels (Öğretmenevi, Saray Hotel, Narin Hotel, DSI Guest House, Polisevi, Anemon Hotel)</p> <p>Breakfast in Döver Village</p> <p>Touristic and Cultural tour in Harbiye and Samandag</p>