



IARTC newsletter

ISSUE 1

JANUARY 2014

In the beginning

With our first issue, as IARTC, we say "Hello".

Our center carries out agricultural research and training activities at both national and international levels.

Our Center, which carries out research activities at different scales, has drawn attention especially with its growing performance on international trainings in recent years.

We aim to promote and to convey our international trainings conducted with the support and consent of our Ministry and General Directorate to our peers regularly.

IARTC newsletter will be published with four months periods both in Turkish and English. By the newsletter, we aim to create an insight to the cooperation ideas about research and trainings from people and institutions who follow and intend to participate to our activities.

Wishing to get together the upcoming issues of the newsletter that we hope it will contribute to development of IARTC...

Trainings of 2013 were completed

Eight International trainings on different subjects were held at International Agricultural Research and Training Center in 2013.

Researchers from research institutes and also faculty members from several universities participated as lecturers in the trainings organized by IARTC and Departments of the General Directorate of Agricultural Research and Policy.

Trainings on the subjects of Agricultural Mechanization and Information Technologies, 4th Sustainable Management of Soil and Water Resources, 2nd Gene Bank Management and Biodiversity Conservation, Plant Nutrition and Soil Management, Agricultural Irriga-



tion, 2nd Watershed Hydrology and Soil Conservation, 3rd Integrated Pest Management "Alternative Methods for Reduction of Pesticide Use" and 2nd Organic Farming were held in IARTC at international level in 2013.

110 researchers from different academic levels from 24 different countries, Bosnia-Herzegovina, Botswana, Bulgaria, Algeria, Morocco, Palestine, Croatia, Iraq,

Persia, Kazakhstan, Kosovo, Kyrgyzstan, Libya, Macedonia, Egypt, Namibia, Nigeria, Uzbekistan, Pakistan, Senegal, Serbia, Sudan, Thailand and Turkmenistan, participated to the trainings.

Additionally, a training program on "Conservation and Sustainable Agriculture" was organized for 15 Agronomists from Palestine for one week upon the request of FAO-Palestine.

11 International Trainings will be held in 2014

Subject	Date	Deadline
2 nd International Course on Agricultural Mechanization and Information Technologies	12-16 May 2014	07 March 2014
5 th International Course on Sustainable Management of Soil and Water Resources	16-27 June 2014	18 April 2014
International Course on Animal Genetic Resources Management	11-15 August 2014	13 June 2014
3 rd International Course on Gene Bank Management and Biodiversity	18-22 August 2014	20 June 2014
2 nd International Course on Plant Nutrition and Soil Management	01-05 September 2014	04 July 2014
2 nd International Course on Agricultural Irrigation	15-19 September 2014	18 July 2014
International Course on Agricultural Research and Extension	22-26 September 2014	25 July 2014
International Course on Food Safety and Additives	13-17 October 2014	15 Aug. 2014
3 rd International Course on Watershed Hydrology and Soil Conservation	20-24 October 2014	22 Aug. 2014
4 th International Course on Integrated Pest Management "Alternative Methods for Reduction of Pesticide Use"	03-07 November 2014	05 Sep. 2014
3 rd International Course on Organic Farming	08-12 December 2014	10 Oct. 2014

For detailed information on international trainings you may visit [web site of IARTC](#).



**Knowledge
expands when
shared**



Plant Nutrition and Soil

International course on “Plant Nutrition and Soil Management” was held in IARTC with 10 participants from Algeria, Egypt, Iran, Nigeria and Senegal between 16-20 September 2013.

Beside researchers from Research Institutes of General Directorate of Agricultural Research and Policy, agricultural faculty members from Adnan Menderes University and Ege University

gave lectures during the course.

A technical trip was organized to Genel Greenhouse Company and Rapunzel Organic Agriculture Company.

During the training, lectures on Plant Nutrition and Soil Management Research, Fertilizing in Turkey and Chemical Fertilizers, Biological Nitrogen Fixation and Microbial Fertilizing, Crop Rotation Systems, Tillage and Carbon Uptake, Hu-

mic Acids, Organic Agriculture, Plant Nutrition in Soilless Agriculture, Soil Contamination and Its Control, Misuse of Agricultural Lands, Precision Agriculture Technologies, Physical Quality of Soil, Fertigation Implementation, New Trends and Techniques in Plant Nutrition, Land Use Planning have been held and participants visited the IARTC Soil, Water, Plant and Fertilizer Analysis Laboratory.

Agricultural Irrigation

International course on “Agricultural Irrigation” was held with 16 participants from Sudan, Macedonia, Egypt, Iran, Nigeria and Bosnia-Herzegovina between 30 September – 04 October 2013.

Faculty members from Faculty of Agriculture of Adnan Menderes University and Ege University and researchers of IARTC gave lectures.

In technical trip, participants visited Directorate of Agricul-

tural Production Establishment and Inservice Training Center in Söke (Aydın) and were informed about irrigation systems, irrigation machines and water measurement in irrigation practice field.

During the training, lecturers shared their experiences and knowledge about topics such as; Agriculture and Irrigation Management in Turkey, Field Survey of Irrigation Pre-Scheduling, Evaluation of Dis-

tribution Performance in Open Channel Systems, Waste Water Use in Agriculture, New Irrigation Management Systems, Water-Yield Relations, Deficit Irrigation, Modeling and Simulation in Irrigation, Maintenance and Preservation of Pressure Irrigation Systems, Points to Consider in Moving Irrigation Machines, Sprinkling and Drip Irrigation, Use of Root Zone Moisture Sensors in Irrigation Programming.

Watershed Hydrology and Soil Conservation

International course on “Watershed Hydrology and Soil Conservation” was held in IARTC with 9 participants from Sudan, Egypt, Iran, Iraq and Bulgaria between 04-08 November 2013.

During the training, researchers from Research Institutes which work under General Directorate of Agricultural Research and Policy and agricultural faculty members from Ankara University and Ege University

gave lectures about the topics mentioned in the program.

In technical trip, participants visited Menemen Left Bank Water Users’ Association and Emiralem regulator. Also a trip organized to İzmir Bird Paradise.

Training program included Potential Soil and Water Resources of Turkey, Problematic Fields, Precipitation-Flow Relations in Watersheds, Erosion Mapping Techniques, Hydrological

Models and Practices, Sedimentation Measurement in Water Storage Facilities and in Watersheds, Water and Wind Erosion Estimation Models, Positional and Temporal Changes of Land Deterioration, Water Harvesting Facilities and Examples from Practices in Different Geographical Regions, Preservation of Soil and Water Resources in Meadows and in Watersheds.

Integrated Pest Management “Alternative Methods for Reduction of Pesticide Use”

International course on “Integrated Pest Management ‘Alternative Methods for Reduction of Pesticide Use’ was held in IARTC with 13 participants from Sudan, Egypt, Iran and Croatia between 18-22 November 2013.

During the course, Plant Health Research Department of General Directorate of Agricultural Research and Policy and researchers from related Institutes gave lectures

on topics mentioned in the program.

Within the scope of technical trip to a greenhouse and a citrus orchard in İzmir’s Seferihisar district, participants were informed about plant protection, plant disease and pest management.

Lectures about the following topics were given by specialists; Plant Health Research Organization and Practices in Turkey, Effects of

Usage of Plant Protection Products on Human Health and Environment, Integrated, Biological and Biotechnical Pest Management Principles and Applications, Biotechnology Utilization in Plant Health, Cultural Measures in Pest Control, Solarization in Protected Cultivation, Spraying Techniques and Calibration, Residues on Plant Products and Resistance Management in Pesticides.



Organic Farming

International course on “Organic Farming” was held in IARTC with 12 participants from Sudan, Macedonia, Egypt, Iran, Nigeria and Kosovo between 02-06- December 2013.

Experts from IARTC and different research institutes gave lectures on organic farming during the course.

Within the scope of technical

trip, Işık Organic Food Company was introduced to the participants and they received practical and technical information about organic production and process.

Lectures on the subjects of Organic Agriculture Regulation in Turkey, Control and Certification, Planning of Organic Agricultural Management, Plant Disease Manage-

ment, Crop Rotation, Poultry Farming, Composting, Soil Tillage Methods, Pest Management Methods, Organic Viticulture, Apple, Fruit, Olive, Cotton Cultivation, Organic Seed Production, Sheep and Goat Breeding and Yield, Cost, Supply-Demand and Marketing in Organic Farming were given by specialists.

Other Trainings and Meetings

IARTC also hosted different training programs of FAO-SEC. The trainings were held in cooperation are as follows;

- ◆ 9-11 April 2013, Regional Workshop on Brucella Control in Central Asia and Eastern Europe
- ◆ 24-27 September 2013, Workshop Program on First Sub-region Meeting on Management and Conservation of Animal Genetic Resources in Central Asia.
- ◆ 04-08 November 2013, Workshop Program on Capacity Development to Support National Drought Management Policies in Central Asia.
- ◆ 25-29 November 2013, Regional Workshop Program on Impacts of Climate Change on Forest Management and Possible Mitigation and Adaptation Measures and Regional Workshop Program for Pesticide Stock Management System
- ◆ 25-29 November 2013, Regional Workshop Program for Pesticide Stock Management System

Beside, “Training of Trainers Course on Conservation and Sustainable Agriculture” implemented on demands from one of the Project of FAO in Palestine by the support of universities and research institutes between 02-07 December 2013.



5 New Projects of IARTC in 2014



Studies on Water Harvesting, Climate Change and Drought, Wind Erosion and Agricultural Organizations in 2014...

The research, one of the activities of IARTC, is carried out by five main sections under the titles of Plant Nutrition and Soil, Climate Change and Catchment, Mechanization and ICT, Agricultural Irrigation and Land Reclamation and Agricultural Economics in the area covering Çanakkale, Balıkesir, İzmir, Manisa, Aydın, Muğla and Denizli provinces.

IARTC's research activities have continued to develop in 2013. Totally, 11 projects are ongoing in the fields of Land Use Planning, Soil Pollution, Fertigation, TKI-Humas and Reduced Fertilizer Applications, Organic Animal Feed, Soil Conservation, Treated Wastewater Use in Agriculture, Different Irrigation Applications, Automation and Artificial Neural Networks, Crop Insurance Practices, and also 2 projects were finalized.

In addition, five new projects on Water Harvesting, Climate Change and Drought, Wind Erosion and Agricultural Organizations will be started to implement in 2014.



ABOUT US...

IARTC works under the General Directorate of Agricultural Research and Policy of Ministry of Food, Agriculture and Livestock. The Center aims to carry out national/international research projects for increasing the agricultural productivity, conservation and sustainable management of natural resources and to hold national/international courses, workshops seminars etc. according to the needs and demands of public sector, private sector, professional organizations and non-governmental organizations. Besides its scheduled programs and projects, IARTC is open to any kind of activities of training programs and research projects on demand from national/international organizations. IARTC adopts sharing the agricultural studies, experience and knowledge in international platform as principle and is one of the leading organizations in this regard.

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