



IARTC newsletter

ISSUE 3

SEPTEMBER 2014

Undersecretary of Ministry of Food, Agriculture and Livestock Distinguished Vedat MİRMAHMUTOĞULLARI paid a visit to IARTC

Undersecretary of the Ministry Distinguished Vedat Mirmahmutoğulları along with Directorate of GDAE Halis Bilden paid a visit to IARTC in the agenda of his trip to İzmir and held a meeting with directorates of institutions under the Ministry of Food, Agriculture and Livestock and with the technical staff of IARTC.



Beside İzmir Provincial Director of the Ministry Ahmet Güldal, directors from Directorate of Olive Cultivation Research Station, İzmir Directorate of Food Control Laboratory, Bornova Directorate of Veterinary Control Institute, Bornova Directorate of Pest Management Research Station, Aegean Agricultural Research Institute, İzmir Di-

rectorate of Agricultural Quarantine, Directorate of Veterinary Border Control Point participated in the meeting of Undersecretary Mirmahmutoğulları.

In the meeting Mirmahmutoğulları informed the directors and technical staff of IARTC about the actions and the policies of the Ministry.



11 International Trainings in 2014...

Subject	Date	Deadline
2 nd International Course on Agricultural Mechanization and Information Technologies	12-16 May 2014	Completed
5 th International Course on Sustainable Management of Soil and Water Resources	16-27 June 2014	Completed
International Course on Animal Genetic Resources Management	11-15 August 2014	Cancelled
3 rd International Course on Gene Bank Management and Biodiversity	18-22 August 2014	Completed
2 nd International Course on Plant Nutrition and Soil Management	01-05 September 2014	Completed
2 nd International Course on Agricultural Irrigation	15-19 September 2014	Completed
International Course on Agricultural Research and Extension	22-26 September 2014	Completed
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	03-07 November 2014	05 Sep. 2014
3 rd International Course on Organic Farming	08-12 December 2014	10 Oct. 2014



*Knowledge
expands
when shared*



Trainings...

2nd International Course on Agricultural Mechanization & Information Technologies

2nd International Course on Agricultural Mechanization and Information Technologies was held in IARTC with 17 participants from Egypt, India, Pakistan, Iran, Sudan, Azerbaijan, Tajikistan, Bulgaria and Algeria between 12-16 May 2014.

During the course agriculture engineers from Central Research Institute for Field Crops, International Agricultural Research and Training Center, Eastern Mediterranean Agricultural Research Institute, GAP Agricultural Research Institute, Eastern

Anatolia Agricultural Research Institute and professors from Faculty of Agriculture of Ege University and Ankara University instructed lectures about the topics mentioned in the program.

5th International Course on Sustainable Management of Soil and Water Resources

5th International Course on Sustainable Management of Soil and Water Resources was held in IARTC with 18 participants from Bulgaria, Egypt, Iran, Morocco and Sudan between 16th-27th June 2014.

During the course agricultu-

re engineers from Atatürk Soil, Water and Agricultural Meteorology Station Directorate, International Agricultural Research and Training Center, Central Research Institute of Soil, Fertilizer and Water Resources and lecturers from Faculties

of Agriculture of Atatürk University, Dicle University, Ege University and On Dokuz Mayıs University instructed lectures about the topics mentioned in the program.

3rd International Course on Genebank Management and Biodiversity

3rd International Course on Genebank Management and Biodiversity was held in IARTC with 7 participants from Egypt, India, Iran, Sudan and Thailand between 18th-22nd August 2014.

During the course, specialists from Aegean Agricultural Research Institute instructed lectures about the

topics such as Conservation of Agricultural Biodiversity and Plant Genetic Resources, Seed Genebanks of Turkey, Characterization of Genetic Resources, Plant Collection Techniques, Herbarium Preparation Techniques, Genetic Resources Documentation, Macrofungi Genetic Resources and their

Conservation.

There had been field trips during the course to Kozak Plateau in Bergama- İzmir and Dilek Peninsula National Park in Kuşadası- Aydın. Visits to Aegean Agricultural Research Institute and National Seed Genebank in Menemen – İzmir were organized also.

IARTC 2nd Ordinary Research Committee Meeting of 2014

IARTC 2nd Ordinary Research Committee Meeting of 2014, was held with the participation of Directorate, Technical Coordinator and

technical staff on June 4, 2014. Within the scope of meeting agenda current situations of ongoing projects, courses, seminars,

etc., training activities, center laboratory and productive activities were discussed.

Meetings...

Wheat Initiative - 4th Institutions' Coordination Committee Meeting

"4th Institutions' Coordination Committee Meeting" which is organized by Wheat Initiative Institute was held in IARTC between

19-21 May 2014. 20 people were participated working in the field of wheat in different institutions and organizations from Ger-

many, Argentina, France, Japan, England, Italy, Ireland, Canada and Turkey.



Meeting on Breeding Animals Value Estimation Course

Within the scope of "Animal Improvement in Community Project" Meeting on "Breeding Animals Value

Estimation Course" was held in IARTC with 36 participants from project leaders of provinces included in the

project and university members between 7-10 June 2014.



FAO "Food Security and Project Cycle Management" Training

"Food Security and Project Cycle Management" training programme second session was conducted in IARTC between 2-14 June 2014 in support of the "Economic Cooperation Organization (ECO) Regional Coordination Center for Food Security Project" with the attendance of the participants from Afghanistan,

Tajikistan, Kyrgyzstan, Uzbekistan and Turkey. Ministry of Food, Agriculture and Livestock (MFAL) of the Republic of Turkey and Prime Ministry-Republic of Turkey, Turkish Cooperation and Coordination Agency (TIKA) financially support the Program, while Food and Agriculture Organization of the United Nati-

ons (UN-FAO) Sub-regional Office for Central Asia gives technical support. The aim of the Training Program is to enhance the food security of the ECO region through an improved coordination, management, facilitating policy dialogue, raising awareness and resource mobilization.



ELLS EU, 2nd "Soil and Water" Summer School

The second Summer School (SS) on Soil and Water, organised by Czech University of Life Sciences Prague, Faculty of Agrobiology, Food and Natural Resources, Department of Water Resources, Czech Republic, in cooperation with IARTC and with participation of the EGE University, Izmir, Fa-

culty of Agriculture, Dept. of Agricultural Structures and Irrigation and BOKU University, Dept. of Hydraulics and Rural Water Management, Wien, Austria, was successfully held in IARTC from 11 August to 23 August, 2014. MSc and PhD students from Czech Republic, Germany, India, Portugal and Turkey

participated to the 2nd Summer School "Soil and Water 2014" which is one of the Summers Schools organised by the EU Euroleague for Life Sciences (ELLS), prestigious organisation of Universities of Life Sciences in Europe.



Heavy Metals and Phytoremediation

Mining, urban or industrial solid, gas and liquid wastes, use of pesticides and artificial fertilizers, dye industry and car exhaust gases cause the release of excessive amounts of heavy metals to the nature. Heavy metal stress caused by environmental pollutants restricts plant growth, and reduces the yield and quality. In terms of soil pollution heavy metals are considered as one of the most important pollutants. Whether heavy metals are used as micro-nutrients or not, if the concentration of heavy metals in the atmosphere, water and soil exceeds a certain level they cause serious problems for all living things. Applied traditional engineering methods (remediation) are expensive for the treatment of areas contaminated by heavy metals. Therefore, phytoremediation has been focused on, which is less costly and also environment friendly, instead of the current remediation techniques. Studies on phytoremediation technique have increased because it offers an opportunity of permanent reclamation rather than transportation provides erosion control, reduces the risk of exposure to soil contaminants, and has potential of reclamation of an area contaminated by more than single pollutants.

Phytoremediation is a new technology as an alternative method shown to the physical improvements methods that cause destruction of the environment during treatments of pollutants on soil sediments, surface water and groundwater. The purpose of removing metal from soil by using plants is to convert the metals held by the soil to a more controlled and portable form. Currently, organic and inorganic substances in areas contaminated with metals can be cleaned through phytoremediation technique with using plant material. Required properties of the used plants in these studies are, to be able grow up healthy without being damaged from existing pollutants in contaminated areas, rapid growth, and to generate sufficient levels of root and green parts.

Consequently, several different technologies and plants used under the scope of phytoremediation increases the feasibility of this technology. However, phytoremediation technique should not be assessed as a final disposal or removal method. Final disposal is to burn of the plant resulting from implementing phytoremediation technique and to be used as feed crops if it has proper characteristics or to be stored in suitable storage. (N. Rahmanoğlu / Agr. Eng. MSc.)



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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