



IARTC newsletter

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Programme Evaluation Meetings of 2014

“TAGEM (General Directorate of Agricultural Research and Policy) Programme Evaluation Meetings of 2014 ” was hold in Antalya between 09 February—08 March 2014.

“TAGEM Programme Evaluation Meetings of 2014 ” which is organized by General Directorate of Agricultural Research and Policy was hold in Antalya between 09 February—08 March 2014. In the meeting, participants shared their opinion about new Project proposals, status of ongoing projects, completed projects with exchanging information and made predictions regarding the coming project.

There were participants from IARTC to Agricultural Irrigation and Land Recla-



mation Research, Soil and Plant Nutrition Research, Climate Change and Catchment Research, Agricultural Mechanization and Information Research, Agricultural Economics Research and Organic Agriculture groups . In Agricultural Irrigation and Land Reclamation Research Group with 9 participants 4 progress reports and 2 result reports were presented. With the participation of 2 staff members to the Soil and Plant Nutrition Research Group, it was decided to continue with 4 projects of which

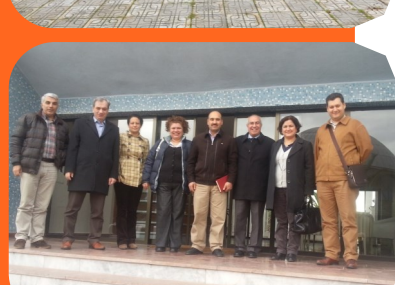
progress reports were presented. With the participation of 3 technical personnel from UTAEM to the Climate Change and Catchment Research group, it was decided to prepare the result report of 1 Project of which collective result was presented. To the Agricultural Mechanization and Information Research, Agricultural Economics Research groups participated with new Project proposals one for each and in Organic Agriculture group, progress report of one ongoing Project was presented.



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	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	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

Knowledge expands when shared



IARTC 1st Ordinary Research Committee Meeting of 2014

IARTC 1st Ordinary Research Committee Meeting of 2014, was held in our center with the participation of Directorate, Technical and Administrative Coordinators on January 21, 2014. Within

the scope of meeting agenda current situations of on-going projects, course, seminar, etc., training activities, center laboratory and productive activities were discussed and activities of

2013 was evaluated. In 2013, Our technical personnel participated 17 trainings, courses and conferences and have 4 national and 3 international publications.

University of Michigan Visit

United States of America Michigan state-centric Turkish Resource Center of North America (TRCNA) and Board of Agriculture Department of University of Michigan made a visit to Turkey, on February, 12 2014 so as to have bilateral discussions in agricultural issues, regarding R&D activities and collaboration possibilities. They were accompanied by Nurten Ural who is Co-Executive Director/Founding Member of TRCNA and Honorary Gen-

eral Consul of Turkey for the State of Michigan. During these bilateral discussions, board members mentioned mutual collaborations concerning interuniversity bilateral relations, joint R&D and techno park activities and cooperation, best practices between the institutions, sharing virtual and physical change, technical issues. Within the frame of their field visits, the board made a visit to IARTC on February 14, 2014. During the visit a

presentation about presentation introduction was made and detailed information about our center was given to the board. One representative from each department was present to answer the board's questions. Board members also expressed their appreciation about this visit and stated that they see it as the first step of potential future collaboration.

Meeting of Irrigation Supports Technical Evaluation and Information Training

Within the scope of Irrigation, Drainage, and TİGH (Field Consolidation Development Services) projects carried out by General Directorate of Agricultural Reform, KKYDP (Support of rural Development Investments Pro-

gram), about Individual Irrigation Machine and Equipment Purchase declaration "2nd Meeting of Irrigation Supports Technical Evaluation and Information Training" was held in IARTC on 14-18 April 2014 which was first-

ly held in IARTC on 3-7 March 2014 too.

Within the scope of the meeting 2013 year activities were evaluated and got informed about activities planned to be conducted in next year.

AARINENA Climate Change and Food Security Conference

"Climate Change and Food Security in West Asia and North Africa" conference organized by AARINENA (Association of Agricultural Research Institutions in the Near East and North Africa)

was held in IARTC" with the participation of Executive Secretary Dr. Mohammad M. Ajlouni, Head of Department of Soil and Water Resources Research Dr. Bülent Sönmez, Head of

Menemen Chamber of Agriculture, Head of Menemen Left Bank Irrigation Association and Director, Technical Coordinator, 2 Technical Staff members of IARTC.

FAO Workshop on Support of Animal Genetics Resources Management in Central Asian Countries

Workshop on "Support of Animal Genetics Resources Management in Central Asian Countries" organized by FAO Sub-regional Office for Central Asia" was held in IARTC on 15-16 April 2014. Workshop was

implemented with 20 participants from TAGEM (General Directorate of Agricultural Research and Policy), HAYGEM (General Directorate of Livestock), Turkish Patent Institute, Ankara Provincial

Directorate of GTHB (Ministry of Food, Agriculture and Livestock), General Directorate of Forestry and Water Affairs, Turkish Veterinary Medical Association and different universities.



"Budget" in Project Preparation

Mr. M. Serdar Köksal from General Directorate of Agricultural Reform gave two hour lecture to IARTC Technical Staff about "Budget in Project Preparation" on 18.04.2014. Director, Tech-

anical and Administrative Coordinators of IARTC also participated to the lecture as well as Technical Staff. During the lecture budget items needed to be taken into account in project preparing were dis-

cussed, Budget proposal samples in investment projects were presented and mistakes generally made in project preparing were accentuated and it became a very informative meeting.



Visit of International Wheat Stripe Rust Symposium Participants

International Wheat Stripe Rust Symposium was held in İzmir, in cooperation with Ministry of Food, Agriculture

and Livestock, ICARDA, BGRI, CIMMYT and FAO on 28 April-1 May 2014. Within the scope of program symposium partic-

ipants visited IARTC on 29 April 2014.



Water Harvesting Applications in Climate Change Process

Climate change which has been the most important problem in recent years causes efficiency degradation of water resources and even drying of some resources that affects negatively agricultural production.

Water harvesting is described as accumulation of rain from catchment area as runoff and use in a small targeted area. Water harvesting applications, is a unique potential for vegetation development in semi-arid areas. Main objective of water harvesting techniques is to stock water that plants need, keep soil stable, prevent plant nutrition elements from moving away agricultural land with run off and by this means to enhance productivity. Water harvesting method can be established completely with local materials to ensure the sustainability of limited water resources and agricultural productivity in climate change process.

With the application of this

method amount of rainfall, techniques applied, soil structure, grazing etc. and accordingly productivity in current plantation can be enhanced, and also with some water harvesting methods agricultural production will be possible in lands never cultivated before.

In our country, we may see negative effects of climate change especially over the past decade. In this period; we faced the fact that we were not a water rich country and concluded that some precautions must be taken for the sustainability of agricultural production in current situation. In different regions throughout Turkey, projects are conducted which aim to determine water harvesting methods special to plants and current geographic situation of the area. In next years, it is aimed to carry out agricultural extension activities which will inform farmers in the area about project outputs.

Water harvesting practices is not a new technology, it is an important heritage. Anatolia, Greek calls as "place from where the sun rises" is also the "place where civilization began". Thanks to historical ruins found during excavations, we may see that different water harvesting constructions were used in agricultural lands for a long time. During interprovincial travels if you have a look around it is quite possible to see different water harvesting buildings in very old orchards trees on sloping lands. In our day, much more technical data and additional materials are used in building such constructions so as to get full capacity from these constructions. By applying these methods inherited from our ancestors, we must contribute to preservation of soil and water resources the most precious values in nature after the air and continuity of life on earth (Aylin ÇELİK/Agr. Eng. Msc.)



Residue Problems in Fruits

Turkey is one of the countries with high self-efficiency and export potential in fruit production thanks to her production area and ecologic structure. Considering Turkey's position in worldwide fruit growing, among 22 fruit species with highest production potential and economic importance, we see it in leading position in cherry, nut, quince, fig and apricot production. It is aimed to increase production and quality of product in order to cover increasing demand in parallel with population growth for food and agricultural raw materials. Diseases and herbicides that we can see in cultivated plants may cause big losses in crop. In order to avoid these losses chemical pest control is one of the most efficient methods. But it is known that excessive and random use of pesticides may disturb natural balance, cause directly or indirectly human and animal poisoning, and environmental pollution, problems both in export and domestic sale by causing pesticide residue in productions.

According to the studies even in breast milk, DDT derivatives were founded. DDT has not been used over the past 30 years in many countries. Although it is no longer produced, the fact that with the constant changes in its structure DDT can exist in food chain for a very long time reveals the horrible truth about pesticides.

The negative effects of agricultural pesticide on human health such as acute toxication, chronic toxication, different allergic effects, chromosome aberrations, liver and kidney failures, central nervous system disorders, blood cell shape abnormalities, premature birth and miscarriage, carcinogenic effects and disorders in different body parts due to accumulation of chemicals and many more highlight the importance of keeping residues in our foods under maximum residue limits.

There is always a possibility of containing residue on ready for consumption vegetal foods. Especially factors like, not following the instructions while applying pesticides, excessive pesticide application, pesticide application on non-certified products, early harvest, application of same pesticide in periodic pesticide applications etc. increase this possibility significantly.

Common belief of cleansing pesticide residues by washing fruits and vegetables with water does not always apply to every active agent of pesticides.

While washing can cleanse the pesticides on the surface, the systematically effective pesticides inside the tissues are affected very little or not affected at all. The amount of cleansed pesticides by washing also decreases in time. It is because the pesticides turn into a waxy structure and penetrates into inner parts. Water soluble pesticides with polar characteristics can be cleansed sustainably by washing. Polar characteristics do not only provide solubility in water but also prevent pesticides to taken by the product.

This problem can be solved considerably with proper pesticide selection and application, timely harvest and obligatory notification in pesticide's prospectus about additional pesticide application—if necessary—and its dosage in applications before pre-pititation. (Ali ERTÜRK / 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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