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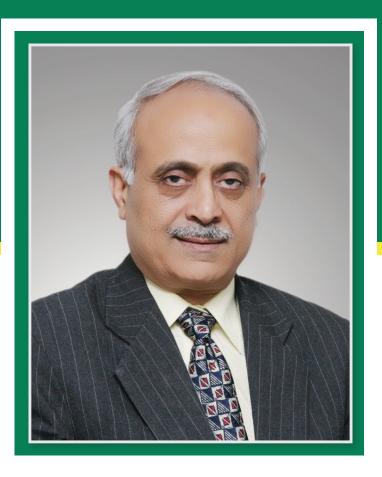
# ANNUAL REPORT

ENDOWMENT FUND SECRETARIAT UNIVERSITY OF AGRICULTURE, FAISALABAD



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Prof. Dr. Iqrar Ahmad Khan (Sitara-i-Imtiaz) Chairman BoD / Vice Chancellor



# Prof. Dr. Tahir Zahoor **Executive Director**



Dr. Naeem Mahmood Additional Director / Associate Professor

Mr. Sajid Ali

Lecturer





Mr. Amir Saeed Rana Deputy Director / Assistant Professor

Mr. Ejaz Hussain Accounts Officer



### Introduction

#### **Establishment of Endowment Fund at UAF**

Endowment Fund was established with the assistance of USDA with seed money of Rs. 650.00 million. The Syndicate under Section 25(2)(i) of the University of Agriculture Faisalabad Act, 1973 approved to establish Endowment Fund at UAF. The major objectives enshrined in the agriculture were:

a. To support UAF programmes for advanced training in biotechnology, agricultural

sciences research, technology transfer and product commercialization

- b. Strengthening of faculty and support R&D activities of UAF
- c. To support similar programmes with other institutions of higher learning, private sector, not-for-profit organizations, and domestic and international organizations
- d. To encourage increased cooperation among scientists conducting agriculturerelated research at universities in Pakistan and the United States of America



11th meeting of Board of Directors of Endowment Fund was held on October 24, 2011

#### Management of the Fund

The Board of Directors (BoD) is the governing body of this Fund and is responsible for Fund's program and its financial and managerial policies. Following is the composition of Board:

- Vice Chancellor, UAF (Chairman)
- Vice Chancellor, Agriculture University Peshawar, KPK
- USDA Agri. Attache in Pakistan or his nominee
- Agri. Specialist, USDA, US Embassy in Pakistan
- Eminent Scientists (Two)
- Progressive Farmer (One)
- Executive Director, ALP (PARC), Islamabad
- Registrar, UAF
- Treasurer, UAF
- Executive Director, EFS/Secretary

Ex-off Ex-off For 3-years For 3-years Ex-off Ex-off EX-off Ex-off

Ex-off



#### **Endowment Fund Secretariat**

Endowment Fund Secretariat is responsible for the operation of the Fund which consists mainly of the selection, processing, approval, monitoring, evaluation and coordination of projects supported in whole or in part by it. All the activities are planned, approved and coordinated through Endowment Fund Secretariat (EFS) under the supervision of Executive Director.

#### **Evaluation of the Proposals**

The project proposals are processed in accordance with the procedures approved by the BoD as under:

- Invitation of proposals in the National Press.
- Initial evaluation by Endowment Fund Secretariat.
- Review of proposals by two national referees (Nominated by the Chairman BoD/Vice Chancellor)
- Submission of detailed projects to TAC along with recommendations of referees for evaluation.
- Rationalization of the recommended projects by the Committee constituted by the Chairman BoD.
- Submission of rationalized projects to the BoD for final approval and allocation of budget.
- Implementation Agreement between the Executor/PI and UAF.
- Issuance of Administrative approval of the projects.

Activities of the Endowment Fund Secretariat during 2011-12 have been summarized under its components/sections. Faculty Development, Technology Transfer, Research & Development and Product Commercialization. Financial Summary has also been presented in the report.



# Section-1 FACULTY DEVELOPMENT



#### **Overview of the Component**

The focus of the activities under Faculty Development is to provide opportunity to the faculty members for enhancing their skills. Further interaction with the international community and exposure to the developed systems are the outcomes of this program. EFS offers travel grants for short training, for presenting papers in conferences/seminars, specialized short visits and financial support for organizing seminars/conferences/workshops at UAF.

Following is the brief of achievements during the year 2011-12 with total expenditure of Rs. 18.651 million

1. Short training (abroad) 0	1
2. Short training (inland) 0	1
3. Travel grants for presenting papers (abroad) 1.	5
4. Short visit for institutional collaboration 1.	2
5. Seminars/Workshops/Conference organized at UAF 44	8

#### 1.1 Short Term Trainings

The following applicants were granted assistance for training during the year 2011-12:

#### a). Abroad

Sr.#	Name of Trainee	Title of training/Host Institute	Duration
1.	Mr. Muhammad Nadeem Asi Department of Clinical Medicine & Surgery, UAF	Learning in Advanced Veterinary Practices. Department of Clinical Sciences in College of Veterinary Medicine, Cornell University, USA	January-April, 2012

b). Inland

Sr.#	Name of Trainee	Title of training/Host Institute	Duration
	Dr. Iram Liaqat Institute of Microbiology, UAF	Third National Training Workshop on Electron & Confocal Microscopy. NIBGE, Faisalabad	December 12-21, 2011

#### 1.2 Travel Grants for Presenting Paper (Abroad)

Endowment Fund Secretariat encourages faculty members to have international exposure by presenting their research findings at various international seminars, conferences, workshops, etc. In this regard following travel grants were provided to faculty members to present papers in international events:

Sr.#	Name of Grantee	Purpose of Travel Grant	<b>Country Visited</b>
1.	Dr. Shukat Ali Bhatti	Effect of Pre-weaning Feeding Regimes	USA
	Institute of Animal Nutrition &	on Post-weaning Growth Performance	
	Feed Technology, UAF	of Sahiwal Calves.	
		Paper presented in the International	
		Symposium/ Conference during 2011	
		ADSA-ASAS Joint Annual Meeting.	
		July 10-14, 2011	



Sr.#	Name of Grantee	Purpose of Travel Grant	Country Visited
2.	Dr. Mahr-un-Nisa Institute of Animal Nutrition & Feed Technology, UAF	Impact of Rumen Digesta Inoculation on Feeding Value of Urea-molases Treated Wheat Straw. Paper presented in the International Symposium/ Conference during 2011 ADSA-ASAS Joint Annual Meeting. July 10-14, 2011	USA
3.	Prof. Dr. Rai Niaz Ahmad Faculty of Agri. Engineering & Technology, UAF	Raised Bed Technology for Crop Water Productivity of Maize and Cotton. Paper presented in the 21 <sup>st</sup> ICID Congress on Irrigation and Drainage, 8 <sup>th</sup> International Micro-Irrigation Congress & 62 <sup>nd</sup> IEC Meeting. October 16-23, 2011	Iran
4.	Prof. Dr. Muhammad Arshad Department of Irrigation and Drainage, UAF	Performance Assessment of Irrigation System in Rice-Wheat Cropping Zone Using Modern Techniques. Paper presented in the 21 <sup>st</sup> ICID Congress on Irrigation and Drainage, 8 <sup>th</sup> International Micro-Irrigation Congress & 62 <sup>nd</sup> IEC Meeting. October 16-23, 2011	Iran
5.	Prof. Dr. Zafar Iqbal Department of Parasitology, UAF	In Vitro Anthelmintic Activity of different Fractions of <i>Azadirachta</i> <i>indica</i> A. Juss Seeds. Paper presented in 4 <sup>th</sup> International Conference on Drug Discovery and Therapy. February 12-15, 2012	UAE
6.	Prof. Dr. Ahrar Khan Quality Enhancement Cell, UAF	Arsenic Induced Toxicity in Broiler Chicks and its Attenuation with Ascorbic Acid. Paper presented in the 9 <sup>th</sup> Annual Scientific Conference (ASCON-IX), 2012 in Chittagong Veterinary and Animal Sciences University. March 7-8, 2012	Bangladesh
7.	Prof. Dr. M. Younas Department of Livestock Man- agement, UAF	White Gold! The Camel Milk. Paper presented in 1 <sup>st</sup> National Congress of Camel. April 18-19, 2012	Iran

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Sr.#	Name of Grantee	Purpose of Travel Grant	<b>Country Visited</b>
8.	Prof. Dr. Zahid Ata Department of Agronomy, UAF	Scope of Allelopathy in Organic Agriculture. Paper presented in the 12 <sup>th</sup> Symposium of the Malaysian Society of Applied Biology (MSAB). June 1-3, 2012	Malaysia
9.	Dr. Rao Zahid Abbas Department of Parasitology, UAF	Anthelmintic Activity of Albizia lebbeck L. bark and Cassia fistula L. Fruit against Trichostrogy Lid Nematodes of Sheep. Paper presented in the 3 <sup>rd</sup> International Symposium on Pharmacology of Natural Products. June 6-10, 2012	Cuba.
10.	Dr. Anjum Zia Department of Chemistry & Bio- chemistry, UAF	Production of L-Asparaginase from Aspergillus niger by using Agro Wastes by-products in Submerged Fermentation Process. Paper presented in the 3 <sup>rd</sup> International Biotechnology and Biodiversity Conference (BIO JOHOR, 2012). June 9-11, 2012	Malaysia
11.	Dr. Zia ud Din Sindhu Department of Parasitology, UAF	Control of Cattle Tick with Application of Indigenous Plant Extracts. Paper presented in the 1 <sup>st</sup> Regional Conference of the Society for Tropical Veterinary Medicine. June 18-21, 2012	Thailand
12.	Dr. Ahmad Sattar Institute of Horticultural Scienc- es, UAF.	Prospects and Challenges of Organic Fruit Production in Pakistan. Paper presented in the 2 <sup>nd</sup> International Organic Fruit Research Symposium-2012, Washington State University & International Society for Horticultural Sciences (ISHS). June 18-21, 2012	USA



Sr.#	Name of Grantee	Purpose of Travel Grant	<b>Country Visited</b>
13.	Dr. Saeed Ahmed Institute of Horticultural Scienc- es, UAF	Effects of Pre-Harvest Spray of Salicylic Acid on the Quality of Sweet Oranges in Cold Storage. Paper presented in 7 <sup>th</sup> International Postharvest Symposium 2012 June 25-29, 2012	Malaysia
14.	Prof. Dr. M. Amjad Institute of Horticultural Scienc- es, UAF	Degradation Pattern of Bioactive Compounds in Carrots During Storage. Paper presented in 7 <sup>th</sup> International Postharvest Symposium 2012 (IPS- 2012). June 25-29, 2012	Malaysia
15.	Dr. Raja Aadil Sarfraz Department of Chemistry & Bio- chemistry, UAF	Assessment of Zine, Cadmium, Nickel and Chromium in Neurological Disorder Patients. Paper presented in EsAn 2012 Chemistry Conference. June 27-30, 2012	Turkey

#### **1.3 Short Visits for International Collaboration**

Travel grants for short visits abroad are provided for strengthening international collaboration and signing of MoUs etc. Following short visits were provided:

Sr. #	Name and Address	Country Visited
1.	Prof. Dr. Iqrar Ahmad Khan Vice Chancellor, UAF.	Paid short visit to discuss scholarship and co-operation program with University of Western Australia and other Institutions. August 25 to September 09, 2011
2.	Prof. Dr. Iqrar Ahmad Khan Vice Chancellor, UAF.	Paid short visit to participate in the "Eighth Annual Meeting of the Science and Technology in Society (STS) forum. October 2-4, 2011
3.	Prof. Dr. Tahir Siddiqui Department of Forestry, Range Management & Wildlife, UAF	Delegate to discuss detailed collaboration plan for the development of agriculture between University of Agriculture, Faisalabad and IPM, Indonesia. February 10-15, 2012
4.	Prof. Dr. Ashfaq Ahmad Director External Linkages, UAF	-do-
5.	Prof. Dr. Aslam Pervez Institute of Horticultural Sciences, UAF	-do-

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Sr. #	Name and Address	Country Visited
6.	Prof. Dr. Tahir Zahoor Executive Director, EFS	-do-
7.	Prof. Dr. M. Jaffar Jaskani Institute of Horticultural Sciences, UAF	-do-
8.	Prof. Dr. Asif Ali Director, ORIC, UAF	-do-
9.	Prof. Dr. Muhammad Amjad Director, Institute of Horticultural Sciences, UA F	-do-
10.	Prof. Dr. Rashid Ahmed Khan Department of Forestry, Range Management & Wildlife, UAF	-do-
11.	Dr. Muahmmad Farrukh Nawaz Department of Forestry, Range Management & Wildlife, UAF	-do-
12.	Dr. Abdul Ghafoor Institute of Business Management Sciences, UAF	-do-

#### 1.4 Seminars/Conferences/Workshops Organized at UAF.

Financial support is provided to UAF faculty members to organize seminars/conferences/workshops at the campus. Following events were sponsored by Endowment Fund during the year 2011-12:

Sr. #	Name of Organizer	Event
1.	Prof. Dr. Allah Bakhsh Department of Irrigation and Drainage, UAF	Seminar on GIS Application in Agriculture -Precision Agriculture. July 11, 2011
2.	Prof. Dr. Khalid Mustafa Institute of Business Management & Sciences, UAF	Seminar on Business Incubation: Challenges and Opportunities. July 13, 2011
3.	Prof. Dr. Zafar Iqbal Qureshi Director, Student Affairs, UAF	Seminar on Pak-USA Relation-Looking Towards Future. July 21, 2011
4.	Prof. Dr. M. Tahir Siddiqui Department of Forestry, Range Management & Wildlife, UAF	Conference on Forestry and Climate Change. July 25-26, 2011
5.	Prof. Dr. M. Ashfaq (T.I) Dean, Faculty of Agriculture, UAF	Seminar on <i>Moringa oleifera</i> : A Multipurpose Plant. August 18, 2011



Sr. #	Name of Organizer	Event
6.	Prof. Dr. Asif Ali Director, ORIC, UAF	Stakeholder Workshop on Social Research to Foster Effective Collaboration and Strengthen Pro-Poor Value Chains (ACIAR). September 20-23, 2011
7.	Prof. Dr. Shahzad Maqsood Ahmad Basra Department of Crop Physiology, UAF	Workshop on Seed Testing through ISTA Standards. September 29, 2011
8.	Dr. M. Yousuf Hussain Department of Physics, UAF	Workshop on Vacuum Technology. October 03-04, 2011
9.	Prof. Dr. M. Inayat Department of Math & Statistics, UAF	Workshop on Statistical Techniques by Using SPSS and Minitab. October 05-07, 2011
10.	Dr. Iftikhar Ahmad CABB, UAF	Seminar on GM Crops: a Gateway to successful Agriculture. October 15, 2011
11.	Prof. Dr. Asif Ali, Director, ORIC, UAF	Conference on Urban, Peri-Urban Agriculture, Employment and Value Chain Management. October 18-22, 2011
12.	Prof. Dr. Asif Ali Director, ORIC, UAF	Seminar on Entrepreneurial Eco System and Understanding of Concept of Commercialization. October 22, 2011
13.	Dr. Nisar Ahmad CABB, UAF	Prof. Masahiko Maekawa, Okayama University, Japan was invited to UAF. October 23-29, 2011
14.	Prof. Dr. Faqir Muhammad Anjum National Institute of Food Science & Technology, UAF	Workshop on Applied Nature Need Based Research Projects of Food Industries. October 31, 2011
15.	Prof. Dr. Abdul Wahid Department of Botany, UAF	Seminar on Role of Botany in Agricultural Development. November 04, 2011
16.	Prof. Dr. Faqir Muhammad Anjum National Institute of Food Science & Technology, UAF	Conference on Emerging Issues in Food Safety. November 14-16, 2011
17.	Prof. Dr. Asif Ali Director, ORIC, UAF	Seminar on Changing Mindset and Building Capacity for Innovation and Commercialization. November 18, 2011.
18.	Prof. Dr. Tahira Iqbal Department of Chemistry, UAF	10 <sup>th</sup> International and 22 <sup>nd</sup> National Chemistry Conference 2011. November 21-23, 2011

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Sr. #	Name of Organizer	Event
19.	Prof. Dr. M. Arshad (T.I) Institute of Soil & Environmental Sciences, UAF	Seminar on Soil Quality for Food Security, Environmental Issue and Remedies. November 22-23, 2011
20.	Prof. Dr. Laeeq Akbar Lodhi Faculty of Veterinary Sciences, UAF	Stakeholder Workshop on Equine Breeders. November 26, 2011
21.	Prof. Dr. Nazir Javed Department of Plant Pathology, UAF	8 <sup>th</sup> National Conference of Plant Pathology 2011. November 28-29, 2011
22.	Prof. Dr. Asif Ali Director, ORIC, UAF	International Conference on Applied Genetics and Biotechnology. December 8-10, 2011
23.	Prof. Dr. Allah Bakhsh Department of Irrigation & Drainage, UAF	International Seminar on High Efficiency Irrigation System/Resource Conservation Technology Water Resources Management and Future Scenario. December 12-14, 2011
24.	Prof. Dr. Ashfaq Ahmad Director, External Linkages, UAF	Australian Delegates Meeting for Scoping of New Projects. December 15-16, 2011
25.	Dr. Qari M. Iqbal Department of Islamic Studies, UAF	Seminar on World Peace and Islamic Teachings. December 20, 2011
26.	Endowment Fund Secretariat, UAF	Role of Natural Products as Biting Deterrents/Repellents against <i>Aedes aegypti</i> (A vector of Dengue) Lecture delivered by Dr. Abbas Ali, Senior Research Scientist, National Center for Natural Products Research, School of Pharmacy, the University of Mississippi, USA. January 21, 2012
27.	Prof. Dr. Faqir Muhammad Anjum National Institute of Food Science & Technology, UAF	International Symposium on Diet as an Adjunctive Measure for the Prevention and Management of Dengue Epidemics. January 30-31, 2012
28.	Prof. Dr. Zahid Ata Department of Agronomy, UAF	Workshop on Allelopathy. February 04, 2012



Sr. #	Name of Organizer	Event
29.	Prof. Dr. M. Ashfaq (T.I.) Faculty of Agriculture, UAF	Seminar on Moringa for Human Health. February 04, 2012
30.	Prof. Dr. Rai Naiz Ahmad Faculty of Agricultural Engineering & Technology, UAF	Dawn Agri Expo 2012 & Conference. February 17-18, 2012
31.	Prof. Dr. Asif Ali Director, ORIC, UAF	Seminar on Intellectual Property Management in Pakistan. February 25, 2012
32.	Prof. Dr. Muhammad Iqbal Department of Farm Machinery & Power, UAF	Food Engineering Programs 1. Presentation in the HEC on the Need of Food Engineering Education in Pakistan. March 13, 2012 by inviting Malaysian Food Engineering Experts 2. Seminar at UAF on Food Engineering-Way to Food Security. March 16, 2012 by inviting Malaysian Food Engineering Experts.
33.	Prof. Dr. Muhammad Younas Department of Livestock Management, UAF	Workshop on Camel Production, Management, its Review and Future Plan for R & D. March 25, 2012
34.	Prof. Dr. Ashfaq Ahmad Director, External Linkages, UAF	Workshop regarding TIKA project "The Poverty Alleviation and Rural Women Empowerment through Propagation of Beetle Goats". March 26-30, 2012
35.	Prof. Dr. Anjum Suhail Department of Entomology, UAF	Workshops on Training of Termite Management for Stakeholders as Community Service. April, May, & June, 2012
36.	Dr. Muhammad Mahmood-ul- Hassan Department of Zoology & Fisheries, UAF	Workshop on Determining Species Richness Patterns and Species Distributions in Pakistan Using Species Distribution Modeling Techniques. April 10-14, 2012
37.	Prof. Dr. Muhammad Ashraf Faculty of Sciences, UAF	Workshop on Strategies for Conservation of Endangered Ecosystem. April 16-18, 2012
38.	Prof. Dr. M. Jalal Arif Principal Officer, Department of Public Relations & Publications, UAF	Seminar on Media Ethics with special reference to Mass Communication and Agri. Journalism. April 24, 2012



Sr. #	Name of Organizer	Event
39.	Prof. Dr. M. Jaffar Jaskani Institute of Horticultural Sciences, UAF	Conference on Citrus Growers. May 09-10, 2012
40.	Prof. Dr. Muhammad Amjad Institute of Horticultural Sciences, UAF	Workshop on Pre and Postharvest Technology of Selected Fruits in Punjab. May 23, 2012.
41.	Dr. Aisha Siddique Institute of Rural Home Economics, UAF	Workshop on Curriculum Development. June 7, 2012
42.	Dr. Zubair Aslam Department of Agronomy, UAF	Seminar on Direct Seeded Rice: Developments and Future Strategies. June 09, 2012
43.	Prof. Dr. Muhammad Tahir Siddiqui Department of Forestry, Range Management & Wildlife, UAF	Seminar on Forestry and Environment. June 11, 2012
44.	Dr. Yasir Jamil Department of Physics, UAF	Seminar on Nanomaterials. June 12, 2012
45.	Dr. Aisha Siddique Institute of Rural Home Economics, UAF	Stakeholder Workshop on Creative Ventures by Home Economists. June 16, 2012
46.	Prof. Dr. Muhammad Younas Department of Livestock Management, UAF	Workshop on World Camel Day. June 22, 2012
47.	Prof. Dr. Anjum Suhail Department of Entomology, UAF	Stakeholder Workshop of Entomology to Develop Linkage with Industry. June 23, 2012



#### SIGNIFICANT SEMINARS/WORKSHOPS/CONFERENCES

#### Seminar on GIS Applications in Agriculture – Precision Agriculture

The seminar was organized on July 09, 2011. The objective of the seminar was to disseminate the latest knowledge of GIS for use in agriculture and its prospects from precision agriculture point of view. The activity helped to learn and create awareness regarding use of modern technologies in agriculture for increasing crop productivity. The achievements of the Institute of Advanced Technology at University of Putra Malaysia were presented and their applications in agriculture along with discussing possibility of developing collaborations between UAF and UPM in the area of Precision agriculture were discussed. An MOU was prepared and sent to UPM for their feedback.







INTERNATION AL WORKSHOP ON ED TESTING THROUGH ISTA STANDARDS

#### Workshop on Seed Testing through ISTA Standards and Stakeholders' Meeting

This workshop was organized on September 29, 2011. The objective of the workshop was to provide a platform for professionals, faculty, students and seed industry people to share the knowledge and future research prospects and to build up strong linkage with seed sector of the country. The workshop was comprised of some interesting lectures about "An introduction to seed tests organizations by ISTA" and "Seed Sampling and Purity Analysis" by Professor Dr. Norbert Leist, Past President ISTA and Seed Testing According to AOSA Standards by Dr. Fawad Shah, Grain and Seed Administrator, Department of Agriculture, Commodity Inspection Division, Yakima, WA, USA. The seed workshop was followed by Stakeholder's meeting and the main theme of the meeting was "Pakistan Seed Industry: Issues and future prospects". Mr. Altaf Azid Khan, Managing Director, Punjab Seed Corporation and Syed Muhammad Nasir Ali, DG, FSC & RD chaired the meeting as chief guest and guest of honor, respectively. Before detailed discussion among the participants on the issues and prospectus of national seed industry, Prof. Dr. Shahzad Ahmad Basra briefed about the seed physiology lab and research activities at University of Agriculture, Faisalabad. Later on Dr. Jin Hu gave an overview about the Chinese seed system as a model for developing national seed supply and delivery system in the country to ensure certified seed supply for sustainable crop production. The focal persons for the stakeholder's meeting were Dr. Asif Ali Shah, (Pioneer Pakistan Limited), Mr. Jamshed Cheema (Auriga Group of Companies) and Dr. Qaiser Rashid (Vice President, Seed Association of Pakistan).

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#### Seminar on *Moringa oleifera*: A Multipurpose Plant

A Seminar was organized on August 18, 2011. The objective of the seminar was to create awareness about potential of Moringa as multipurpose tree and plantation at campus on the eve of National Tree Plantation Day. Scientists, farming communities, politicians and extension department were motivated for Moringa plantation and focusing it for research so that nation can be benefited.







#### Workshop on Statistical Techniques Using MSTAT-C, SPSS and MINITAB

Workshop was organized on October 5-7, 2011. The objective of workshop was to train teachers and researchers from different disciplines for effective use of statistical softwares in analyzing their research data and writing report. This workshop helped to refresh the knowledge of statistics of the researchers for better understanding and planning of their research.



#### **1.5 Foreign Visitors Sponsored During 2011-12.**

Foreign scientists/scholars/delegates etc. are often invited at various occasions. This provides an opportunity for the Faculty members and students to update and refresh their knowledge. Endowment Fund Secretariat provides Financial Support for organizing such events. During 2011-12 Rs. 3.133 million were spent on this activity.

<b>Sr.</b> #	Name/Institute	Date	Event
1.	Dr. Abdul Rashid Bin Mohammad Amed Sharif University of Putra Malaysia	July 11, 2011	Seminar on GIS Application in Agriculture-Precision Agriculture. Organized by the Department of Irrigation & Drainage, UAF
2.	Prof. Dr. Sarfraz A. Mian Oswego State University of New York, USA.	July 13, 2011	Seminar on Business Incubation: Challenges and Opportunities. Organized by the Institute of Business Management Sciences, UAF
3.	Dr. Shafiq-ur-Rehman Khan Development of Forestry Resources, AJK	July 25-26, 2011	Conference on Forestry and Climate Change. Organized by the Department of Forestry, Range Management & Wildlife, UAF
4.	Prof. Dr. Abdul Majeed University College of Agriculture, Rawalakot, AJK	July 25-26, 2011	Conference on Forestry and Climate Change. Organized by the Department of Forestry, Range Management & Wildlife, UAF
5.	Dr. John Spriggs Australia	September 20-23, 2011	Stakeholder Workshop on Social Research to Foster Effective Collaboration and Strengthen Pro- Poor Value Chains (ACIAR). Organized by the Director, ORIC, UAF
6.	Dr. Sandra H. Mustafa Australia	September 20-23, 2011	Stakeholder Workshop on Social Research to Foster Effective Collaboration and Strengthen Pro- Poor Value Chains (ACIAR). Organized by the Director, ORIC, UAF
7.	Prof. Dr. Norbert Leist Past President, ISTA, Germany	September 29, 2011	Workshop on Seed Testing through ISTA Standards and Stakeholders Meeting. Organized by the Department of Crop Physiology, UAF.



Sr. #	Name/Institute	Date	Event
8.	Dr. Fawad Shah, Grain Yakima WA USA	September 29, 2011	Workshop on Seed Testing through ISTA Standards and Stakeholders Meeting. Organized by the Department of Crop Physiology, UAF.
13.	Dr. Nisar Ahmad CABB, UAF	October 23-29, 2011	Prof. Masahiko Maekawa, Okayama University, Japan was invited to UAF.
9.	Dr. Kazim R. Chohan Director, Andrology Laboratory, State University of New York, USA	November 14-16, 2011	Conference on Emerging Issues in Food Safety. Organized by the National Institute of
10.	Dr. Mian N. Riaz Texas A & M University, College Station, USA		Food Science & Technology, UAF
11.	Dr. Mujahid Masood Department of Food Science, Cornell University, New York, USA		
12.	Dr. G. Sarwar Gilani Scientific Advisor, FAO, Canada		
13.	Mr. Aizad Ahmad Canadian College of Business & Hadi Insitiute, Toronto, Canada	-	
14.	Prof. Dr. Gulam Rasul Rahmat Ali Food Technology Division, School of Industrial Technology, Universti Sains Malaysisa		
15.	Dr. Shahzad Hussain Department of Food Science and Nutrition, College of Food and Agricultural Sciences, King Saud University Riyadh, Saudi Arabia	-	
16.	Dr. Winai Dahlan Director, The Halal Science Centre, Chulongkorn University Thailand		
17.	Dr. Tipayanate Ariyapitipun The Halal Science Center Chulalangkorn University 254 Phayathai Rd, Pathumwan, Bangkok, Thailand		
18.	Prof. Dr. Ahmad Hassan El-Ghorab Head of Flavors and Aroma Department, National Research Centre, Tahrir St. Dokki, Cairo, Egypt		



<b>Sr.</b> #	Name/Institute	Date	Event
19.	Dr. Athar Ata The University of Winnipeg, MB, Canada	November 21-23, 2011	Conference of 10 <sup>th</sup> International and 22 <sup>nd</sup> National Chemistry. Organized by the Department of
20.	Prof. Dr. Peter Langer Organische Chemie Universitat Rostock Albert-Einstein-Str. Germany		Chemistry and Biochemistry, UAF
21.	K.S. Siddiqi Aligarh Muslim University, Aligarh, India		
22.	Prof. Dr. Sven Schubert Nutrition, Justus Liebig University, Giessen, Germany	November 22-23, 2011	Seminar on i. Soil Quality for Food Security ii. Environmental Issue and Remedies Organized by the Institute of Soil & Environmental Sciences, UAF
23.	Prof. Dr. Remesh Kanwar Deptt. of Agricultural & Biosystems Engineering, IOWA State University, USA	December 12-14, 2011	International Seminar on i. High Efficiency Irrigation System/ Resource Conservation Technology ii. Water Resources Management and
24.	Dr. Syed Mehtab Ali Senior Hydrologist, Climate & Water Division Common Wealth Beauru Meteorology, Australia	-	Future Scenario Organized by the Department of Irrigation & Drainage, UAF
25.	Prof. Dr. John Blackwell International Center for Food & Water Security, Charles Sturts University, Australia	-	
26.	Dr. Li. Zhaohua School of Resources and Environmental Sciences, Hubei University, Wuhan, China		
27.	Mr. Aitzaz Ahsan Lecturer/Research Assistant, Precision Agriculture Research Program Engineering Department, Nova Scota Agricultural College, Canada		



Sr. #	Name/Institute of Visitors	Date	Event
28.	Dr. Kosambo Linus M.D.O. Coast, Kenya	December 8-10, 2011	International Conference on Applied Genetics and Biotechnology.
29.	Dr. MD. Salim Khan BCSIR Lab. Dhaka		Organized by the Director ORIC, UAF
30.	Muhammad Athar Tariq California, USA		
31.	Dr. Shugga Manageneva Kazzakhstan		
32.	Dr. Nick Austin Chief Executive Officer, Australian Centre for International Agricultural Research (ACIAR)	December 15-16, 2011	Australian Delegates hosted by Director, External Linkages, UAF
33.	Mr. Les Baxter ASLP Coordinator & Research Program Manager for Horticulture		
34.	Mr. Andrew Nobles Research Program Manager Land & Water		
35.	Munawar R. Kazmi Program Officer ASLP (ACIAR)		
36.	Melissa Kelly (member PAC)		
37.	Dr. Tausneem (member PAC)		
38.	Dr. Yus Aniza Yusof University Putra, Malaysia	March 13, 2012	Presentation on the Need of Food Engineering Education in Pakistan
39.	Dr. Muhammad Nordin Ibrahim University Putra, Malaysia		Organized by the National Institute of Food Science and Technology, UAF
40.	Dr. Yus Aniza Yusof University Putra, Malaysia	March 16, 2012	Seminar on Food Engineering- Way Food Security
41.	Dr. Muhammad Nordin Ibrahim University Putra, Malaysia		Organized by the National Institute of Food Science and Technology, UAF
42.	Dr. Alice Catherine Hughes Prince of Songkla University, Thailand	March 31 to April 14, 2012	Workshop on Determining Species Richness Patterns, and Species Distributions in Pakistan Using Species Distribution Modeling Techniques Organized by the Department of Zoology and Fisheries, UAF



Sr. #	Name/Institute of Visitors	Date	Event
43.	Dr. Munir Ozturk, Botany Department, Ege University Izmir, Turkey	April 16-18, 2012	Workshop on Strategies for Conservation of Endangered Ecosystem.
44.	Dr. Dawud Mohammad Hasan AL- Eisawi, Department of Biological Sciences, Faculty of Science, University of Jordan, Amman		Organized by Faculty of Sciences, UAF
45.	Dr. Abdul Latiff Bin Mohamad Professor Emeritus, Faculty of Science and Technology, Universiti Kebangsaan Malaysia		
46.	Dr. Faridah-Hanum Ibrahim Faculty of Forestry, University Putra Malaysia		
47.	Dr. Salih Gücel, Environmental Sciences Institute, Near East University, Cyprus		
48.	Yong-Ping Yang Deputy Director, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, No. 18 Shuangqing Road, Haidian District, Beijing, China		
49.	Shi Suqi College of Life Sciences, Northwest A & F University, Yangling 712100, P. R. China		
50.	Izmir Zhang Lixin College of Life Sciences, Northwest A & F University, Yangling 712100, P. R. China		



<b>Sr.</b> #	Name/Institute of Visitors	Date	Event
51.	Dr. Xuzhe Zhao State Key Laboratory of Grassland Agro-ecosystems, MOE Engineering Research Center for Arid Agriculture and Ecological Restoration, Lanzhou University, China	April 16-18, 2012	Workshop on Strategies for Conservation of Endangered Ecosystem. Organized by Faculty of Sciences, UAF
52.	Dr. Cengiz Kaya Harran University, Agriculture Faculty, Soil Science and Plant Nutrition Department, Sanliurfa- Turkey		
53.	Dr. Mohammad Kafi Department of Agronomy, Faculty of Agriculture, Ferdowsi University of Mashhad, Iran		
54.	Dr. Ihsanullah Daur Department of Arid Land Agriculture, Faculty of Meteorology, Environment & Arid Land Agriculture, King Abdulaziz University, Jeddah, Saudi Arabia		
55.	Shujaul Mulk Khan Department of Biology, University of Leicester, UK		



Role of University of Agriculture, Faisalabad in Ensuring Livelihood Strategies for Small Farmers" held on November 02, 2011.





Emerging Issues in Food Safety held on November, 14-16, 2011



Golden Jubilee Celebrations Week of the Institute of Soil and Environmental Sciences held on November 21 -26, 2011.



Seminar on IPR Management in Pakistan and Establishment of IPR Office at UAF



Seminar on Strategies for Conservation of Endangered Ecosystems held on April 16-18, 2012





Workshop on Pre and Postharvest Technology of Selected Fruits in Punjab held on May 23, 2012





Workshop on Curriculum Development Institute of Rural Home Economics, UAF held on June 07, 2012

# Section-2 TECHNOLOGY TRANSFER

#### Overview

Endowment Fund Secretariat accepts proposals for technology transfer from all public entities which demonstrate needed research and development capabilities and financial responsibilities. The portfolio under this component consists of outreach projects, demonstration on campus, organizing Farmers' Fairs/Exhibitions and Horse & Cattle Show. Faculty Outreach Program was initiated this year and 17 events were held throughout Punjab. Under this program community services were also performed like flood relief activities and training workshops for land grantees.

#### 2.1 **Projects Initiated & Completed During 2011-12**

Sr.#	Title of the project	Name of the PI	Duration
1.	Gender Empowerment and Home Life	Prof. Dr. Tanvir Ali	One Year
	Improvement of Rural Poor through	Division of Education and	
	Appropriate Technology Transfer	Extension, UAF	

#### 2.2 Projects Initiated During 2011-12

2.2	Projects initiated During 2011-12			
Sr.#	Title of the project	Name of the PI	Duration	
1.	Demonstration of Fogging and Spraying at the Campus UAF for the Control of Mosquitoes	Prof. Dr. Anjum Suhail Department of Entomology, UAF	One Year	
2.	Establishment of a Model Fruit Plant Nursery for Demonstration of Container Grown Plant Production in Citrus and Guava	Dr. Muhammad Usman Institute of Horticultural Sciences, UAF	Two Years	
3.	Development of Molecular Diagnostics for Livestock Based Food Pathogens	Dr. Muhammad Irfan Forman Christian College University, Lahore	Two Years	
4.	Demonstration of Production Technology of Quinoa ( <i>Chenopodium quinoa</i> Willd.) as a New Climate Proof Grain Crop	Prof. Dr Shahzad M. A. Basra Department of Crop Physiology, UAF	Three Years	
5.	Strengthening Informal Seed Supply System at Two Locations in Potohar Trough Participatory Technology Transfer	Dr. Abdul Razzaq PMAS-Arid Agriculture University, Rawalpindi	Two Years	
6.	Rhizobaterial Formulations Application Technology for the Control of Major Pathogenic Root Infecting Fungi in Chickpea for Sustainable Crop Production.	Dr. Muhammad Inam-ul-Haq PMAS-Arid Agriculture University, Rawalpindi	Two Years	
7.	Technology Transfer to Potato Growers in Relation to Pathogen Free Seed Potato, Management of Diseases and Adoption of Improved Agro-techniques	Dr. Ishfaq Ahmad Hafiz PMAS-Arid Agriculture University, Rawalpindi	Two Years	
8.	Establishment of Integrated Farming Facility for Crops/Vegetables, Fish and Livestock at Proka Farms of UAF	Executive Director, EFS, UAF (Coordinator)	Three Years	



Sr.#	Title of the project	Name of the PI	Duration
9.	Establishment of Fish Farming Facility in Integration with Poultry/Crop Farming at Proka Farms University of Agriculture, Faisalabad	Prof. Dr. Muhammad Javed Department of Zoology & Fisheries, UAF	Three Years
10.	Establishment of Poultry Farming Facility in Integration with Fish/Crop Farming at Proka Farms University of Agriculture, Faisalabad.	Prof. Dr. Ahsan-ul-Haq Department of Poultry Science, UAF	Three Year
11.	Improving Degraded Soil and Low Quality of Water Using Farm Wastes and Their Use for Crop Farming	Dr. Ghulam Murtaza Institute of Soil & Environmental Sciences, UAF	Three Years
12.	Improving Degraded Soils and Low Quality of Water Using Farm Wastes and Their Use for Vegetable Farming (vegetable tunnel farming)	Prof. Dr. M. Aslam Pervez Institute of Horticultural Sciences, UAF	Three Years
13.	Drip Irrigation Systems for Fruit Orchards and Row Crops for Research and Demonstration Purpose	Prof. Dr. Rai Niaz Ahmad Water Management Research Center, UAF	Three Years

#### 2.3 Projects Completed during 2011-12

Sr.	Title of the project	Name of the PI	Duration		
1.	Construction of Mobile Communal Dip and Demonstration and Dissemination of its Use for Tick Control	Prof. Dr. Zafar Iqbal Department of Parasitology, UAF	Three Years		
2.	Transfer of Pheromone Control Techniques for the Control of Fruit Fly to the Farmers of District Lasbela, Balochistan, Pakistan	Prof. Dr. Abdul Hameed Bajoi Vice Chancellor, Lasbela University of Agriculture, Water and Marine Sciences, Uthal Balochistan	Three Years		
3.	A Rural and Peri-Urban Outreach Mastitis Control Program Focusing on Transfer of Technologies Developed by University of Agriculture, Faisalabad	Prof. Dr. Ghulam Muhammad Department of Clinical Medicine & Surgery, UAF	Three Years		
4.	Technology Transfer for the Control of Inclusion Body Hepatitis Hydropericardium Syndrome in Commercial Poultry by the Use of Improved Adjuvanted Vaccine Produced Indigenously	Prof. Dr. Iftikhar Hussain Institute of Microbiology, UAF.	Three Years		
5.	Collection and Establishment of Germplasm Unit (GPU) of Fruit Plants at Square No. 32.	Dr. Saeed Ahmad Institute of Horticultural Sciences, UAF	Three Years		
6.	Demonstration of Plant Pathological Technologies at U-Road on the Main Campus, UAF	Dr. Nazir Javed Department of Plant Pathology, UAF.	Three Years		



Sr.#	Title of the project	Name of the PI	Duration
7.	Demonstration of Technologies Developed by the Department of Agronomy in the University of Agriculture, Faisalabad	Dr. Zahid Atta Department of Agronomy, UAF	Three Years
8.	Demonstration of Elite Breeding Lines of Different Crops at U-Road in the Main Campus, University of Agriculture, Faisalabad	Prof. Dr. Faqir Muhammad Azhar Department of Plant Breeding and Genetics, UAF	Three Years
9.	Demonstration of Techno-chemical Method for Reclamation of Hard Layered Saline Sodic Soils	Prof. Dr. M. Shafi Sabir Faculty of Agri. Engg. & Tech. UAF.	Three Years
10.	Demonstration of Farmer Friendly Equipments Developed by Department of Poultry Science	Prof. Dr. Ahsan-ul-Haq Department of Poultry Science, UAF	Three Years
11.	Spring and Winter Flower Exhibition/ Demonstration for Transfer of Technology at UAF	Dr. Atif Riaz Institute of Horticultural Sciences, UAF	Three Years
12.	National Horse and Cattle Show for Farmers Education	Prof. Dr. Muhammad Younas Faculty of Animal Husbandry, UAF	Three Years
13.	Low Cost Technologies for Enhanced Ruminant Animal Productivity	Dr. Mahr-un-Nisa Institute of Animal Nutrition and Feed Technology, UAF	Three Years
14.	Enhancing Crop Productivity on Salt-Affected Soils through Combined Use of Soil Applied Gypsum and Pre-sowing Seed Treatments	Dr. Saif Ullah Institute of Soil & Environmental Sciences, UAF.	Three Years
15.	Establishment of Demonstration Orchard for Transfer of Technology to the Growers at PARS	Dr. Saeed Ahmad Institute of Horticultural Sciences, UAF	Three Years
16.	Demonstration of Innovative Technology of the Department at the Main Campus, UAF	Prof. Dr. Rashid A. Khan Department of Forestry, Range Management and Wildlife	Three Years
17.	Demonstration of Strategies for Enhancing Cereal Yields under Normal Conditions	Prof. Dr Shahzad M. A. Basra Department of Crop Physiology, UAF	Three Years
18.	Demonstration of Improved Boom Sprayer and Zone Disk Tiller Drill	Prof. Dr. Muhammad Iqbal Department of Farm Machinery & Power, UAF	
19.	Citrus Diagnostic and Certification Services	Dr. Muhammad Mubin CAGSA, UAF.	Two Years



#### **Ongoing Projects** 2.4

#### **Title of the project**

**Documentation of Traditional Agricultural** Knowledge and Technologies in Punjab, Pakistan Name of the PI Prof. Dr. Igrar Ahmad Khan Vice Chancellor, UAF **Duration** 

**Three Years** 

#### Title of the project

Salt Affected Soils - Technologies Associated with their Management Name of the PI Mr. Muhammad Sarfraz Soil Salinity Research Institute, Pindi Bhattian Duration Three Years

#### **Title of the project** Demonstration of Modern Technologies through

**Kissan Mela** Name of the PI Dr. Ghulam Murtaza **Director Farms, UAF** 

Duration Three Years





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Inauguration and visit of the Chief Guest to the exhibition stalls at the eve of Rabi Kissan Mela during October, 2011





مؤرش







Title of the project Facilitation of the Demonstration of Different Technologies under UAF-Technology Park Projects at Postgraduate Agricultural Research Station (PARS), University of Agriculture, Faisalabad Name of the PI Mr. Amir Saeed Rana Superintendent PARS, Directorate of Farms, UAF Duration Five Years

**Title of the project** Establishment of Biomonitoring Cell for Certification of Bt Cotton Efficiency **Name of the Pl** Dr. H. Masooma Naseer Cheema Department of PBG, UAF **Duration** Two Years

**Title of the project** Field Demonstration of Salt Tolerant Tree and Forage Species on Salt-affected Land at Proka Farm, UAF **Name of the Pl** 

Dr. Muhammad Saqib Institute of Soil & Environmental Sciences, UAF. **Duration** Three Years

**Title of the project** Operation and Management of Drip Irrigation System for Demonstration at PARS **Name of the PI** Prof. Dr. Rai Niaz Ahmad Water Management Research Center **Duration** Three Years



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**Title of the project** Synthesis of Available Fertilizer Trials Data for Site-Specific Recommendations and Diagnostic Survey for Low Adoption of Fertilizer Use Technology (three components) **Name of the PI** Dr. Muhammad Rashid Ex-Director General Agri. (Research) Punjab/Subject

Specialist, Inst. of Soil & Envi. Sci. UAF **Duration** 

Two Years

#### Title of the project

Technology Transfer through on Farm Demonstration of Innovative Techniques for the Sustainable Bovine Dairy Farming and Keeping Herd Healthy by Manipulation of Management Practices **Name of the PI** Dr. Muhammad Riaz

Department of Livestock Management, University of Agriculture, Faisalabad **Duration** 

Three Years

**Title of the project** Relay Cropping of Sesbania in the Wheat for Residues Management and Improving Soil Health **Name of the PI** Prof. Dr. Ehsanullah Department of Agronomy, UAF **Duration** Two Year

**Title of the project** Epidemiology and Control of Foot & Mouth Disease in Punjab **Name of the Pl** Dr. Muhammad Arshad Institute of Microbiology, UAF **Duration** Two Years

**Title of the project** Technology Transfer through Cyber Extension: Helping Communities to Help Themselves **Name of the PI** Dr. Babar Shahbaz Department of Agri. Extension, UAF. **Duration** Three Years

**Title of the project** Creating Knowledge-Based Society through Agricultural Technology Transfer via FM Radio **Name of the PI** Prof. Dr. Tanvir Ali Division of Education & Extension, UAF **Duration** Two Years



#### 2.5 Capacity Building of Land Grantees

Endowment Fund Secretariat in collaboration with Planning and Evaluation Cell, Lahore organized capacity building workshops at 8 locations at the farms of land grantees. All Wings of Agriculture Department participated in these events. Following is the detail of the workshops conducted:

Sr.#	Venue	Date
1.	T. T. Singh	February 27, 2012
2.	Sheikhupura	February 29, 2012
3.	Okara	March 06, 2012
4.	Kot Adu, Muzaffargarh	March 19, 2012
5.	Jalapur Pirwala, Multan	March 20, 2012
6.	Mandi Yazman	March 21, 2012
7.	Rahim Yar Khan	March 22, 2012
8.	Sillanwali, Sargodha	April 03, 2012

A detailed report has been compiled highlighting the issues and giving recommendations to the Government of the Punjab for the success of the scheme. Some glimpse of the workshops are given as under:

Kot Adu, Muzaffar Garh dated March 19, 2012



Jalal Pur Pir Wala, Multan dated March 20, 2012





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Rahim Yar Khan dated March 22, 2012



ONE DAY WORKSHOP APACTY BULDING OF AGRI, GRADUATES AT RAHUM YAR KHAN OF AGRI, CRADUATES UNDER THE PROJECT COMPARISON OF A COMPACT AND A COMPACT AND A COMPACT COMPACT AND A COMPACT







#### 2.6 Technical Assistance for Development of Lands Attached with the Danish Schools

On the request of Chief Executive Officer of Punjab Danish Schools and Centers of Excellence Authority, the Vice Chancellor, UAF entrusted the assignment to Endowment Fund to suggest innovative ways to promote agriculture, forestry, commercial crops, livestock in the attached land which could provide sustainable economics and financial assistance for the sustenance of the schools. Endowment Fund organized the visits at Chistian, Hasilpur, Rahim Yar Khan and Harnoli (Mianwali). A comprehensive report containing recommendations has been submitted to the Government of Punjab.

#### 2.7 Outreach Activities

The University Outreach Program initiated as a project during 2010-11 was converted into a Program with recurring budget under Technology Transfer Component. Under this program, faculty members submit a proposal for an activity ranging from one day to one week. Under outreach program, proposals may cover hands-on trainings, demonstrations, farmers gathering, exhibition and lectures/seminars for the awareness/sensitization of the community.

These programs have received enormous response and have been highly admired. The outreach activities conducted during the year 2011-12 are as under:

Sr.#	Name & Department	Title	Location
1.	EFS	Technology Transfer Workshop	Sub-Campus, T. T. Singh
		December 11, 2011	



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#### Name & Department

Dr. Saira Akhter Department of Rural Sociology, UAF **Title** Social Organization October-November, 2011 **Location** Chak No. 370 G.B. Gojra, T. T. Singh



#### Name & Department

Mrs. Rakhshanda Akhter Department of Rural Sociology **Title** 

Training of Women For Food Processing and Preservation for Income Generation and Home Life Improvement in Rural Areas of Faisalabad October-November, 2011 **Location** Chak No. 370 G.B. Gojra, T.T. Singh

#### Name & Department

Dr. Muhammad Farooq Khalid Sub-Campus T.T. Singh, UAF **Title** Nutrition of the Chicken-a Basic Course March 01, 2012 **Location** 

Chak No. 325JB T.T. Singh



#### Name & Department Dr. Arshad Iqbal Department of Livestock Management, UAF Title Camel Production and Management September 14-15, 2011 Location

Rakh Mahni, Bhakkar



#### Name & Department

Mrs. Asma Lodhi, Department of Rural Home Economics, UAF **Title** Food Preparation and Preservation November-December, 2011 **Location** Dijkot Faisalabad

#### **Name & Department**

Mrs. Ayesha Hussain Department of Rural Home Economics, UAF **Title** Techniques of Dying & Stitching November-December, 2011 **Location** Dijkot, Faisalabad



#### Name & Department

Prof. Dr. Muhammad Younas Department of Livestock Management, UAF **Title** Revolution and Reformation of the Peri-Urban Dairy Farming in Faisalabad **Location** Chokera and Bhaiwala, Faisalabad



#### Name & Department Mrs. Qurat-ul-Ain Department of Rural Home Economics, UAF Title Child Care and Training Methods November-December, 2011 Location Dijkot, Faisalabad

#### Name & Department

Mrs. Ayesha Riaz Department of Rural Home Economics, UAF **Title** Art & Craft November-December, 2011 **Location** Dijkot, Faisalabad



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#### Name & Department

Prof. Dr. Shahzad M.A. Basra Department of Crop Physiology, UAF **Title** On-Farm Seed Application of Moringa Leaf Extract as Natural Plant Growth Enhancer to Improve the Stand Establishment and Yield in Wheat December, 2011 - January, 2012 **Location** Sahiwal/ Okara Sheikhupura Chiniot Faisalabad

Name & Department Prof. Dr. Muhammad Sarwar (T.I) Faculty of Animal Husbandry, UAF Title National Goat Show 2011 November 4-5, 2011 Location University of Agriculture, Faisalabad Name & Department Prof. Dr. Mahmood Ahmad Randhawa Department of Continuing Education, UAF **Title** Awareness about Dengue Mosquito April 16, 2012 Location University of Agriculture, Faisalabad Name & Department Prof. Dr. Ijaz Javed Hassan Department of Physiology and Pharmacology, UAF Title Rational Use of Drugs in Animals December, 2011 - January, 2012 Location

Chiniot & T.T.Singh







### Name & Department S.B Dairy Farm Title Mechanization of Silage Preparation May 14, 2012 Location 71 JB Sarlian, Thikriwala, Fsd.

Name & Department Prof. Dr. Asif Ali, Director, ORIC, UAF Title Challenges & Opportunities in GMOs for Agriculture June 21, 2012 Location University of Agriculture, Faisalabad

Name & Department Prof. Dr. Laeeq Akbar Lodhi, Faculty Veterinary Science, UAF Title Creation of Awareness regarding the new Technologies in Goat Management Among Resource Poor Lady Farmers June 19, 2012 Location University of Agriculture, Faisalabad Section-3 RESEARCH & DEVELOPMENT

#### 3.1 Overview

During the current year, a new component (Research & Development) was created to grant funds for proposals relating to Research & Development. Keeping in view the emergent situation of Dengue virus outbreak, the BoD allowed for funding proposals related to control of Dengue virus as a special case. Twelve projects were initiated during the year.

The Government of Punjab, specially health related institutions, appreciated and acknowledged that the Endowment Fund UAF made a very prudent and wise decision to initiate the Dengue Research Program (DRP) to respond to the Dengue Epidemic that had spread into many parts of the Western Punjab with Faisalabad alone reporting over 1500 cases of Dengue Fever during the period from August-December, 2011. A rapid response Program to deal with Dengue Fever was initiated with funding provided to Scientists from 4 different Institutions. A multi-disciplinary, multi-institutional Research and Surveillance Program was launched and named Dengue Research Program (DRP) with Professor Saiyed I. Ahmed, HEC Foreign Professor of the Institute of Microbiology, UAF as its Coordinator. A total of about Rs. 10 million was allocated for funding the following projects started during December, 2011:

Sr.#	Title of the project	Name of the PI
1.	Molecular Basis of Dengue Hemorrhagic Fever Pathophysi- ology through Gene-Networking	Dr. Junaid Ali Khan Department of Physiology & Pharmacology, UAF
2.	Molecular Characterization of Dengue-Disease Related Viruses from Pakistan	Dr. M Shah Nawaz-ul-Rahman Virology Lab.,CABB, UAF
3.	The Quantification of Different Serotypes of Dengue Virus Titre Using Real Time PCR in Patients Showing Variable Symptoms to Study the Disease-Titre Relationship	Dr. Muhammad Mubin Virology Lab., CABB, UAF
4.	Molecular Detection of Dengue Virus Occurring Among Different Mosquitoe Populations in some Districts of Punjab	Prof. Dr. Sajjad-ur-Rahman Institute of Microbiology, UAF
5.	Elucidation of Envelope Protein Domain III Consensus Sequence for the Further Development of Tetravalent Den- gue Virus Subunit Vaccine Using Transgenic E.coli	Dr. M. Khalid Mansoor Institute of Microbiology, UAF
6.	Whole-Genome Sequencing of Local Dengue Virus Strains in Pakistan	Dr. Mehdi Toufeer Institute of Microbiology, UAF
7.	Management of Dengue Virus and Malarial Vector Control through Biomoskill	Prof. Dr. Sajjad-ur-Rahman Institute of Microbiology, UAF
8.	Efficient Use and Safety of Bacillus Pathogens as Vector Control for Effective Dengue Fever Prevention	Dr. Iram Liaqat Institute of Microbiology, UAF
9.	Micropropagation and Commercial Exploitation of Papaya ( <i>Carica papaya</i> ): a Potential Candidate for Dengue Fever Treatment	Dr. Bushra Sadia CABB, UAF
10.	Wolbachia Bacteria-Based Dengue Control	Prof. Dr. Iftikhar Hussain Institute of Microbiology, UAF
11.	Epidemiology of Recent Epidemic of Dengue Fever in Pakistan	Prof. Dr. Muhammad Arshad Institute of Microbiology, UAF
12.	Botanicals: an Alternative Approach for the Vector Man- agement	Dr. Khuram Zia Department of Entomology, UAF

# Section-4 PRODUCT COMERCIALIZATION



#### 4.1 Activities

Up to 2010, infrastructure development was supported by Endowment Fund by establishing Business Incubation Center and UAF-TECH Company (Pvt.) Ltd. After restructuring of the Office of Research by adding the component of Innovation and Commercialization, operational aspects of the commercialization are taken up by BIC, ORIC and Endowment Fund jointly. The proposals having potential for commercialization are evaluated jointly and their fate is decided keeping in view the stage of the product.

Endowment Fund Secretariat, UAF sponsored a series of workshops under different topics conducted by ORIC, UAF

- 1. Entrepreneurial Eco System and Understanding of Concept of Commercialization.
- 2. How to Write a Winning Research Proposal for PSF
- 3. University Industry Linkages

Another milestone is the construction of Exhibition Center which was started at Main Campus UAF in Dec. 2011. This is meant for display/demonstration of developed and tested innovative and cost effective technologies to attract the stakeholders of agricultural industry in the country. The themes of exhibitions are generally pertinent to educational, economic, social or technological developments. The centre will act as incubator of scientific knowledge. The exhibits will serve as excellent material for complementing science teaching.



# Section-5 FINANCIAL REPORT



## 5.1 Financial for the Year 2011-12

The income from investments of Endowment Fund was originally estimated at Rs. 116.530 million during the financial year 2011-12. However, the income from investments remained at Rs. 113.453 million. This happened mainly due to lower short term investment which was Rs. 65.0 million as compared to Rs. 92.0 million during the previous year. The total funds allocated to components were Rs. 235.088 million. Principal amount has incurred to Rs. 760 million as under:

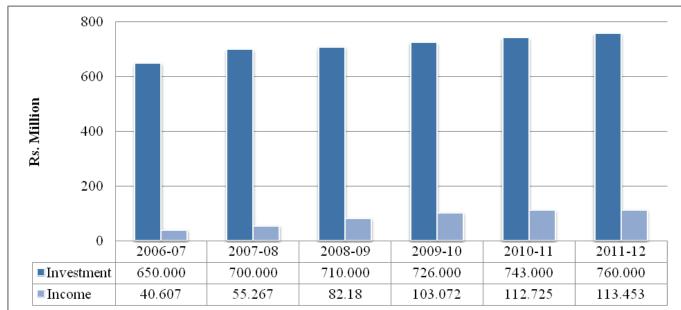


Fig 1: Investment & Profit Trend

### 5.2 Allocation/Expenditure

Budgeted income from investment was allocated to components of Faculty Development (FD), TechnologyTransfer (TT), Research & Development (RD) and Product Commercialization (PC). Originally the expenditures were estimated at Rs. 235.088 million with the expectation that the construction activities of the Exhibition Centre will pick up the momentum. However, due to unexpected reasons, the construction of Exhibition Center was delayed and expenditure could not be incurred as per expectations. Therefore, the year under review closed with revised expenditure of Rs. 140.778 million leaving a saving of Rs. 91.233 million. Component wise break-up of expenditure has been given in Figure 2.

Table 1: Budget Estimates 2011-12	(Rs. Millions)	
Head	<b>Budget Estimates</b>	Revised estimates
Unspent balance for 2010-11	135.558	135.558
Income from Investment 2011-12	116.530	113.453
Total amount available for allocation	252.088	249.011
Expenditure against components	235.088	140.778
Transfer to Principal Amount	17.000	17.000
Closing Balance	Nil	91.233

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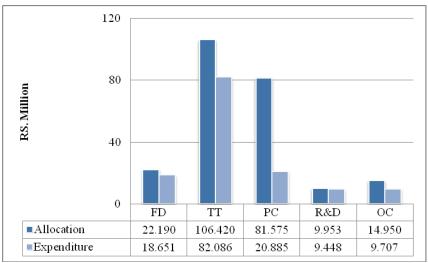


Fig 2: Component-Wise Allocation/Expenditure during the Year 2011-12

## 5.3 Operational Budget 2011-12

Code	Budget Head	Amount Rs. Million
A-01273	Honorarium	1.24
A-03201	Postage and Courier etc.	0.06
A-03202	Telephone and Trunk calls, E-mail/Internet	0.06
A-03702	Management (Contractual Services)	0.51
A-03805	Traveling Allowance	0.17
A-03807	POL Charges	1.30
A-03901	Stationary	0.20
A-03902	Printing and Publication etc.	0.20
A-03903	Seminar/Workshops	1.02
A-03904	Hire of Vehicles	0.06
A-03905	News paper, periodicals and books	0.03
A-03907	Advertising & Publicity	0.09
A-03940	Unforeseen	0.60
A-06301	Entertainment Charges	0.50
A-09203	Purchase of I.T Equipment	0.35
A-09501	Purchase of Transport	2.00
A-09601	Purchase of Plant & Machinery	0.46
A-09701	Purchase of Furniture & Fixture etc.	0.06
A-13001	Repair of Transport	0.20
A-13101	Repair of Plant & Machinery	0.50
A-13201	Repair of Furniture and Fixture	0.03
A-13301	Repair and Maintenance of Office Building	0.50
A-13703	Repair of I.T Equipment	0.05
A-12470	Other-Civil Work	5.21
	Total:-	14.95