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From the Chairman



According to Plato the society that respects doctors more than all other people is of sick mentality, the society that respects generals than all others is a herd of barbarians and extremists, the people who respect the judges more than others are criminal minded and the people who respect teachers the most than others are actually the civilized one. It is the teacher who builds foundation of any society and civilization and history testifies it. In the societies where people paid respect to their teachers made marvelous progress. It was the bond of respect and love among teachers and students that created an ideal environment of learning and teaching during various eras in the past and those dynasties or empires ruled

Continued on page 2

2nd Invention to Innovation Summit Held in Quetta

The 2nd Invention to Innovation Summit, jointly organized by University of Balochistan, Pakistan Science Foundation (PSF), Pakistan Scientific and Technological Information Centre (PASTIC) and Institute of Research Promotion (IRP) was held at University of Balochistan (UoB) on April 25-26, 2017.

Scientists, academicians, Chambers of Commerce and Industries representatives, industrialists and students from all over Balochistan participated in the Summit that became the largest national network of Balochistan for collaborative efforts for innovation.

The sessions of the Summit



(L to R): Mr. Abdul Rahim Ziaratwal, Provincial Minister for Education, Balochistan, Prof. Dr. Anwar-ul-Hasan Gilani, Chairman PCST, Dr. Hamid Khan Achakzai, Provincial Minister for Planning & Development, Balochistan, Muhammad Khan Achakzai, Governor Balochistan, Prof. Dr. Javed Iqbal, Vice Chancellor, University of Balochistan, Prof. Dr. Muhammad Ashraf, Chairman PSF and Mr. Abid H. K. Sherwani, CEO, IRP at inaugural session of the 2nd Invention to Innovation Summit held at University of Balochistan, Quetta on April 25, 2017.

included Impact of CPEC Economic Policies and Development in Balochistan, Business Plan Competition, Technologies for Livestock and Meat Processing, Role of Public Policy on Science,

Technology and Innovation, Technologies for Mines and Mineral Processing, PSF Fund Winning Opportunities, The role of Entrepreneurship in the Current Economic Scenario of Balochistan, Technologies for Renewable Energy, ORIC session on Trust Building Measures Between Academia, R&D institution, Industry and Society, Industrial Process Improvement-Productivity and Efficiency, Technologies for Horticulture – Fruits and Vegetables, Technologies for ICT Sector, Social Innovation and Social Entrepreneurship, Technologies for Marine and Coastal Sector Development, Product and Process



Balochistan Governor Muhammad Khan Achakzai visiting exhibition stalls at the 2nd Invention to Innovation Summit at University of Balochistan, Quetta on April 25, 2017

INSIDE

Science Communication is way to fight illiteracy: Dr. Ashraf



2

PMNH Establishes Mushrooms Garden



5

Seminar on Plagiarism: How Do I Avoid It? And Use of Turnitin



6

From the Chairman

the entire world through the power of their knowledge.

The role of teachers is not only to enable the students to achieve success in making their livelihood in a better way but also to become a person equipped with the knowledge and morality imperative for a peaceful and prosperous society and nation.

It is my conviction that the teachers who created wonderful impact on the society and nations were the role models in letter and spirit. Aristotle and Plato's relationship of pupil and teacher is a living example not only for us but even for the coming generations despite passage of hundreds of years.

If we want to make real progress in the field of science and technology the teachers have to become role models of hard work, perfection and persistence for their students. It is the duty of the teachers to become examples of motivation, inspiration, competition and togetherness for their students.

These are the teachers who could make their students understand that success is not final and failure is not fatal because it is the courage to continue struggle for achieving the target that counts. They have to make the students realize that coming together is a beginning; keeping together is progress and working together is the success. The success could not be achieved without perfection, hard work, learning from failures, remaining persistent.

Innovation in Natural & Life Sciences.

An exhibition of projects full of technologies viable for industrial investment was also part of the Summit. The effective projects were granted cash prizes and awards.

Mr. Muhammad Khan Achakzai, Governor of Balochistan was the Chief Guest at inaugural session of the Summit. Prof. Dr. Muhammad Ashraf, Chairman PSF, Prof. Dr. Javeid Iqbal, Vice Chancellor UoB, Prof. Dr. Anwar-ul-Hasan Gilani, Chairman PCST and Mr. Abid H. K. Sherwani, CEO, IRP were also present and they addressed the audience at the inaugural session of the Summit.



A group photo of the Corps Commander Southern Command, Lt. General Amir Riaz and others at the "Innovation Award Ceremony of the Summit" held at Quetta Club on April 25, 2017

The Corps Commander Southern Command Lt. General Amir Riaz also attended the "Innovation Award Ceremony of this Summit" held at Quetta Club. He emphasized that the security is everyone's business in the province and the

scientific endeavors are the only indicators of rise and fall of nations.

The closing ceremony of the Summit was held on April 26, 2017 at UoB. The competition winners having the best technologies were awarded shields and cash awards.

Science Communication is way to fight illiteracy: Dr. Ashraf

Communication as a tool to combat science literacy were explored by speakers at a seminar on "Science Communication Key to Enhance Public Understanding of Science and Technology" at Invention to Innovation Summit, University of Balochistan, Quetta on April 25, 2017.

Prof. Dr. Muhammad Ashraf, Chairman Pakistan Science

Foundation while addressing the audience as Chief Guest mentioned, "Science Communication helps cultivate the critical thinking, intellectual and decision-making skills that will serve a student for a lifetime. It also needs using technical skills, which are vital to practices used in different disciplines of science."

The seminar organized by

Technology Times / Tech TV in collaboration with Institute of Research Promotion (IRP), Pakistan Science Foundation (PSF), and University of Balochistan (UoB). Speakers at the seminar highlighted that the need of science popularization has never been greater for more effective science communication specifically designed to help the public and policy makers comprehend important issues involving science and technology.

Dr. Mudassir Asrar, Dean Faculty of Life Sciences, University of Balochistan, Quetta said on the occasion that Science Communication is a way of assisting the growing brains in finding new knowledge and inculcate scientific temper for inquiry which is currently missing in our education system.



PSF Chairman Prof. Dr. Muhammad Ashraf addresses inaugural ceremony of the Workshop on Science Communication at the University of Balochistan, Quetta on April 25, 2017.

Quote of the Month

The fundamental essence of science, which I think we've lost in our education system, is poking something with a stick and seeing what happens. Embrace that process of inquiry."

- Philippe Cousteau, Jr.



A group photo of participants of Project Formulation Workshop with PSF Chairman Prof. Dr. Muhammad Ashraf at University of Baluchistan, Quetta on April 25, 2017



PSF Chairman Prof. Dr. Muhammad Ashraf addresses the closing ceremony of the Project Formulation Workshop at University of Baluchistan, Quetta on April 25, 2017.



A group photo of the PSF Board of Trustees after the 47th Meeting of the Board on April 8, 2017



PSF Chairman Prof. Dr. Muhammad Ashraf presides over 47th Meeting of PSF Board of Trustees on April 8, 2017

Over 10,000 Students from 35 Schools Visit Science Caravan Exhibitions

As many as 10,920 students and teachers from over 35 schools visited science exhibitions organized by the Science Caravan units of Pakistan Science Foundation in April 2017. The detail is as under:

Federal Unit: The Science Caravan Federal Unit arranged an exhibition during All Pakistan Science Fest-2017 at UET, Lahore on April 17-21 April, 2017. Over 3,850 students from 12 schools participated in the activity.



Science exhibition arranged by Federal Unit at UET, Lahore



Students are being briefed about exhibits inside STFS Mobile lab during exhibition at Pak-China Centre, Islamabad

Another exhibition was arranged during National Book Day organized by National Book Foundation at Pak-China Centre, Islamabad on April 22-24, 2017, which was visited by 4,500

students from 15 schools.

In both the activities, the STFS mobile lab attracted media personnel, students and general public. The visitors appreciated the efforts of PSF and suggested to expand the activity.

Faisalabad Unit: The Science Caravan Punjab Unit Faisalabad arranged a Planetarium Show at Govt. College Elementary Teachers Faisalabad on April 25-28, 2017 and 850 students from two schools participated.

Sukkur: The Sukkur Unit arranged film and planetarium shows at Shikarpur city on April 20-29, 2017. Some 1,720 students and teachers from six schools and general public participated in the activity.



Glimpses of Science Caravan Exhibition arranged by Sukkur Unit at Shikarpur

Popular Science Lecture

A Popular Science Lecture was arranged by Science Caravan Tandojam unit on "Causes of hearing loss in children" at Jauhar Public School Tandojam on April 27, 2017. Dr. Gul Mohammad Bughio, Senior Medical Officer (DLO), Civil Hospital Kotri District Jamshoro delivered presentation on "Causes of Hearing Loss in Children". He explained work of ear, causes of hearing loss and treatment. About 105 students and teachers attend the programme. The speaker discussed various aspects of the topic

with the audience and gave very informative presentation. At the end, question answer session was also arranged.



Popular Science Lecture organized by PSF Science Caravan Tandojam Unit.



26th Intra-Board Science Essay & Poster Competitions

PSF in collaboration with all the Boards of Intermediate and

Secondary Education (BISE) of the country has been organizing Intra/Inter Board Science Essay and Poster

Competitions for the last 25 years. This year 26th Science Essay Competition has been announced on the theme titled

"Science Museums: a potential means of informal education" and for Science Poster Competition the theme is "Quality of food items available in local market". The BISEs Faisalabad, Sargodha and Gujranwala arranged the competitions on April 12, 17 and 29, 2017 respectively. Representative from Science Caravan Faisalabad Unit, controllers of examinations and other officers of BISEs were also present on the occasion.



A view of Intra-Board Science Essay and Poster Competition arranged by BISEs Faisalabad and Sargodha

Pakistan Museum of Natural History (PMNH)

Editor: Dr. Muhammad Ismail Bhatti

PMNH Arranges Exhibition in National Book Fair 2017

Pakistan Museum of Natural History (PMNH) organized an educational exhibition in the 8th National Book Fair 2017 held at Pak-China Friendship Building, Islamabad on April 22-24, 2017. Different natural history specimens were displayed in the exhibition for the visitors. A large numbers of students, general public, scientists from different institutions and foreigners visited the PMNH stall. The staff of PMNH Mr. Jaffar Naqvi, Mr. Muddassar Fida, Mr. Muhammad Imran and Mr. Raiz Ahmad explained the natural history exhibits visitors.



Students visit PMNH Stall during National Book Day Exhibition

Sindh Agri Extension Department Team Visits PMNH

The key objective of every Museum of Natural History is the collection of natural history specimens and exhibit them for public education. The addition of new exhibits and introducing educational programmes are attracting peoples from across the country and foreigners to visit the PMNH. PSF Chairman Prof. Dr. Muhammad Ashraf is taking keen interest in adding new dioramas to the Museum galleries and introducing more informative educational activities for the visiting students and general public.



PMNH Establishes Mushrooms Garden

PMNH has established a Mushrooms Garden on its premises as an initiative for public education and guiding visitors about cultivation of edible mushrooms. First time the cultivation of Oyster Mushroom has been successfully started. The Mushroom Garden will attract the mushrooms growers for technical



consultancy. Dr. Muhammad Ismail, Associate Curator and Mr. Abdul Nasir Niazi, Repository Assistant is working on this project.

National Mushroom Festival 2017: Dr. Muhammad Ismail, Associate Curator participated as organizer in the one-day 2nd National Mushroom Festival 2017 at Ghorra Gali, Murree Rawalpindi. The event was jointly organized by PMNH and Agri Tourism Development Corporation of Pakistan. Over 50 people from different walks of life participated in the event and enjoyed



mushroom collection from the forest. The resource persons educated them on mushroom names their edibility, medicinal and poisonous properties. A demonstration on mushroom spores (mushroom seed) and fresh mushrooms were also given to the participants.

NIFA Experts Visit PMNH: A team of four mushroom experts from NIFA Peshawar visited PMNH Mushrooms Garden on April 28-29, 2017. The team comprised Mr. Daud Khan SSO, Mr. Aurangzeb Khan SSA, Mr. Saeed Khan SA-II and Mr. Waqar Khan. The team visited the mushroom garden and suggested some important points regarding mushroom cultivation process. The DG PMNH



along with the experts also visited the mushroom tunnels. The experts were invited on special instructions of PSF Chairman Prof. Dr. Muhammad Ashraf.

PMNH Zoologist Delivers Lecture on “My Museum Your Museum”



PMNH Zoologist Mr. Rafaqat Masroor participated in ICOM-ITC training workshop “My Museum, Your Museum: Developing meaningful experiences for visitors of all ages” in Beijing, China from April 01-12, 2017. He delivered an in-house lecture on April on 26, 2017 to share the experiences of the training with his colleagues.

PMNH Scientist Completes HEC IRSIP Fellowship

Mr. Mishkat Ullah, Research Associate, Zoological Sciences Division (ZSD) has successfully completed the Higher Education Commission's (HEC) awarded six months IRSIP fellowship from October 15, 2016 to April 12, 2017 at Coleoptera Section, Life Science Department, Natural History Museum, London. He worked under the supervision of eminent

Coleopterists Beulah Garner, Senior Curator, Coleoptera Section. During his stay, he carried out in-depth research work on Carabidae collection by Andrewes, Bates, Bowring, D'Abreu, H.G. Chapman, Dejean, Max Barclay and Fletcher from Indian Subcontinent region from 1834-todate. He identified 246 species, synonymized one species, reported 30 new

records for Pakistan. The scholar got published a research article entitled, “Faunistic studies of the tribe Brachinini (Carabidae: Coleoptera) from northern Pakistan” in impact factor international journal Zootaxa. State of the art stacking images of the all subjected identified species were produced at imaging facility of NHM London.

Over 12, 000 Persons Visit PMNH in April 2017

A total of 12,148 persons including 4,895 students, 7,220 general public, 33 foreigners and 5,520 children under 5-year of age visited the museum galleries in April 2017.

The students groups from Roselite Junior School Jhelum, The Science School, Rawalpindi, Kids City High School Islamabad, Intelligence Bureau, Islamabad, Al-Barkat Academy of Science



Faisalabad, Shaheen Model School Swabi, Al-Huda International School Islamabad, Oxford Grammar School Bhimber, Al-Qurtaba Science Public School Gujranwala, Dawah Centre for

Women Islamabad, CARP, Islamabad, Sapling High School Rawalpindi, University of Peshawar, Lahore School System Islamabad, Progressive Public School KPK, Iqra International

Education System Rawalpindi, Livi School Mardan, University of Peshawar, COMSATS Islamabad, The Smart School Rawalpindi, University of Lahore, Sargodha and G.H.S.S Manga,

Mardan visited the museum as a part of their educational programme. The student groups were provided guided tour facility and shows of natural history films were also arranged for them.

Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Saima Siddique Tariq

Seminar on Plagiarism: How Do I Avoid It? And Use of Turnitin

PASTIC Sub-Center, Lahore in collaboration with FAST-National University organized a one-day workshop on Plagiarism: How Do I Avoid It? And Use of Turnitin, on April 26, 2017. A total 52 participants from FAST and others universities participated in this workshop.

Dr. Amjad Hussain, Director-FAST NU, welcomed the participants, introduced FAST as an academic institute and emphasized on its role in quality education.

Dr. Hamid Hassan, Head of Department, FAST School of Management, was the Keynote Speaker. He highlighted the importance of the topic and suggested some tips to avoid plagiarism. He said that role of library has totally changed from traditional to electronic. Mr. Ali Raza Khan, Deputy Director, PASTIC, Sub-Center, Lahore, introduced PASTIC's



Dr. Amjad Hussain, Director FAST-NU Presenting shield to the resource person

and its services. He highlighted the importance of the topic and thanked the management and resource person Mr. Nadeem Sohail from FAST. He said that such learning events will be organized in future as well. Ms. Saba Fazal Firdusi, Faculty member Lahore School of Economics and Mr. Hussnan Javid master-trainer participated as guests of honor.

They delivered speeches on need and importance to avoid plagiarism.

Mr. Nadeem Sohail, Manager

Library, theoretically and practically defined Plagiarism elaborated its types, and described the HEC Plagiarism Policy. He elaborated the methods of avoiding plagiarism. He also introduced the turnitin and described the use of turnitin for faculty and students.

At the end shields were distributed among guests and resource persons. The participants received their certificates. Mr. Nadeem Sohail, Manager Library, thanked library staff, FAST-NU management, PASTIC and participants for making this event successful.

Need for Creation of Intellectual Property Rights Culture Stressed

PASTIC Sub-Centre, Karachi in collaboration with Jinnah Sindh Medical University (JSMU), Karachi, organized a one-day seminar on "Creation of an Intellectual Property Rights (IPR) Culture" at JSMU on April 10, 2017.

The objective of the seminar was to create awareness amongst the researchers about the IPR system, its benefit and essential requirements for its

protection. Prof. Dr. S. M. Tariq Rafi, Vice Chancellor, Jinnah Sindh Medical University was the chief guest of the seminar. A total of 50 participants including researchers and faculty members from Jinnah Sindh Medical University and Liaquat National Hospital attended the seminar. Resource persons were from the Pakistan Patent office and IP attorney.

Training workshop on Mendeley

Mendeley is a cross-platform application (Windows, Mac, Linux, iPhone) that helps researchers manage and annotate their scientific paper collections. Citation data from its cloud library can be accessed across multiple devices e.g., Laptop, PC and

iphone etc. In order to enhance the research capabilities and to inculcate modern thesis writing trends, PASTIC National Centre regularly organizes training workshops on Mendeley. PASTIC organized a training workshop on "Make your research life easier with



Group photo of the Participant of the Workshop

Mendeley Tool” from 12-13th April 2017 at PASTIC National Centre, Quaid-e-Azam University Campus, Islamabad.

The objective of this workshop was to build the capacity of young researchers and to enhance their skills in literature search, citation, sharing and discovering of new research. The workshop included practical sessions where an

opportunity was provided to learn and practically use different features in Mendeley application.

Certificates and souvenirs from Mendeley were also distributed among the participants at the end of the workshop. Dr Maryum Ibrar Shinwari, Senior Scientific Information Officer (PASTIC) was the resource person of the workshop. 25 Participants including students and faculty

PASTIC Trainings/Workshops on SPSS

PASTIC regularly organizes training workshops on Research Methodology. This program is for students, scholars of MSc, MS/M.Phil & Ph.D. The objective of such workshops is to provide basic understanding about qualitative and quantitative

research concept, methods and capacity building of researchers in collecting, managing and analyzing data for qualitative and quantitative research. In continuation of this regular activity following workshops were organized during the month of April.

SPSS Workshop at University of Sindh Jamshoro



PASTIC Sub-Centre, Karachi organized a three-day training workshop on “Research Tools and Techniques” from 17-21 April, 2017 in collaboration with department of Physical Education, University of Sindh Jamshoro. More than 45 participants attended the workshop. Director General PASTIC Prof. Dr. Muhammad Akram Sheikh was the Chief Guest at the closing ceremony. He appreciated the collaboration of University of Sindh Jamshoro in organizing this workshop. At the end certificates were also distributed amongst the participants.

members from Quaid-e-Azam University, University of Arid Agriculture, International

Islamic University & Iqra University participated in this hands on training workshop.

SPSS Workshop at Rawalpindi Medical College

PASTIC organized a three-day training workshop on “Research Tools and Techniques” from 26-28 April 2017 at Rawalpindi Medical College (RMC), Rawalpindi. Twenty Seven participants from final year participated in the training. In the inaugural ceremony Dr. Faiza Aslam, Research Coordinator, RMC acknowledged the efforts of PASTIC for the capacity building of researchers. She said that such trainings are helpful for their students and such collaborations should be continued between RMC and PASTIC. Muhammad Usman, Web Manager, PASTIC was the resource person of the training workshop.



A glimpse of certificate awarding ceremony at the end of the Workshop

He emphasized that quantitative analysis is one of the core part of medical research field and trainings on such tools are very important for the medical students. He also requested PASTIC to conduct more trainings on the same topic as well as Citation tools like Mendeley and EndNote. The participants expressed their appreciation for organizing such need based training. Later on, certificates were also distributed among the participants.



Group photo of the Participants of the Workshop

Workshops on Research Tools: EndnoteX8

PASTIC regularly organizes training workshops on “Citation Management Tool: EndNoteX8. The objective of this workshop is the capacity building of young researchers and enhancing their skills in literature search, citation and PDF management through EndNote citation tool. Following workshops were organized during the month of April 2017.

PASTIC Sub-Centre Quetta
PASTIC Sub-Center Quetta in

collaboration with Agriculture College Quetta organized a two days training workshop on “EndNote” from 19-20 April, 2017 at Agriculture College Quetta. The participants of the workshop were M.Phil and Ph.D students. 30 participants attended the workshop Mr. Munir Ahmed, Assistant Professor Department of Microbiology; University of Balochistan was the resource person. Prof. Muhammad Aslam Khan

Niazi, Principal, Agriculture College Quetta was the Chief Guest at the closing ceremony. He anticipated that participants of training workshop will utilize their learning skills while conducting their research for getting better analysis output with ease. The participants expressed their appreciation for organizing such need based training. Later on, certificates were also distributed among the participants. Prof. Muhammad Aslam Khan Niazi paid special thanks to PASTIC for organizing such a fruitful



A group photo of the Participant of the Workshop

workshop at their vicinity.

PASTIC Sub-Centre Peshawar

PASTIC Sub-Centre Peshawar in collaboration with ORIC University of Haripur, M. Phil / PhD Scholars

organized one day training workshop on Endnote at University of Haripur on 6th April, 2017. 34 participants including faculty members & M. Phil / PhD Scholars

attended the workshop. Dr. Muhammad Jahangir, Director ORIC/Assistant Professor University of Haripur was the resource person.

Dr. Zahoor Ahmed, Registrar University of Haripur was the Chief Guest at the closing ceremony. He distributed the shields & Certificates among resource persons / participants & organizers. He appreciated PASTIC for organizing an effective activity at their campus. **Dr. Kamran Khan, Manager Industry Linkages, University of Haripur,** delivered vote of thanks.

PASTIC Services Stalls

PASTIC regularly organizes its service stalls all over the country, wherein PASTIC publications are displayed and membership forms/pamphlets are distributed and the visitors are briefed about PASTIC services. In continuation of this regular activity following stalls were organized during the month of April.

Islamabad

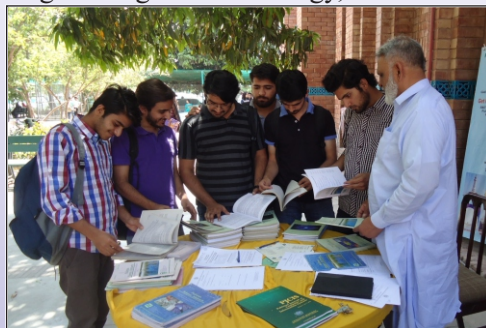
PASTIC National Centre organized a three days service stall from 22-24 April, 2017 during celebrations of National Book Day at PAK-China Centre, Islamabad.

Lahore

First stall was organized on 4th April at Department of Chemistry, University of Engineering and Technology Lahore.

Second stall was organized on 11th April at Department of Civil Engineering, University of Engineering and Technology, Lahore.

Third stall was organized on 18th April at Department of Mathematics, University of Engineering and Technology, Lahore.



A glimpse of PASTIC Service Stall, Lahore

Fourth Stall was organized on 26th April at FAST-National University, Lahore.

Faisalabad

PASTIC Sub-Centre, Faisalabad organized three stalls at different departments of University of Agriculture on 4th, 12th and 27th April.

Karachi

PASTIC Sub-Centre, Karachi organized a Stall from 29-31 March, 2017 at the Institute of Physics, University of Sindh Jamshoro.

Peshawar

First stall was organized on 6th April, at the University of Haripur.

Second stall was organized on 4th April, at the Department of Pharmacy, ABASYN University Peshawar.

PASTIC Organizes Awareness Seminar on PASTIC S&T Services for Researchers

PASTIC organizes its Services Awareness Seminar regularly. The objective of this regular activity is to raise public awareness about PASTIC, its services and role of information support for research and development activities.

These awareness seminars help broaden geographical representation by increasing membership. Following seminars were organized during the month of April.

- Awareness Seminar at Department of Pharmacy, ABASYN University Peshawar on 4th April, 2017.
- Awareness Seminar at Department of Chemistry, University of Engineering and Technology Lahore on 4th April, 2017.
- Awareness Seminar at Sardar Bahadur Khan Women

University Quetta on 4th April, 2017.

- Baluchistan Quetta on 8th April, 2017.
- Awareness Seminar at Department of Civil Engineering, University of Engineering and Technology, Lahore on 11th April, 2017.
- Awareness Seminar at Department of Mathematics, University of Engineering and Technology, Lahore on 18th April, 2017.
- Awareness Seminar at Agriculture College Quetta on 19th April, 2017.
- Awareness Seminar at FAST-National University, Lahore on 26th April, 2017.

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