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PSF NEWS

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From the Chairman



Someone asked an engineer, why you feel proud of being an engineer? He smiled and said, "A lawyer's income increases with increase in crime and litigation. A doctor's income increases with increase in diseases / illness. But an engineer's income increases with increase in prosperity of people and nation. That's why we feel proud".

Stethoscope in hand identity of doctor, File in hand identity of Lawyer , Chalk in hand identity of Teacher, but Nothing in hand and everything in mind is the identity of an engineer and scientist. Engineers Day is celebrated in various

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New S&T Minister of State, S&T Secretary Pay their Maiden Visit to PSF

After assuming the charge of Minister of State for Science and Technology (S&T) Mir Dostain Khan Domki visited Pakistan Science Foundation (PSF) on September 26, 2017. The new Secretary S&T, Mrs Yasmin Masood and other senior officers of the Ministry were also accompanying him. The visit was part of briefings from the organizations working under the S&T Ministry.

PSF Chairman Prof. Dr. Muhammad Ashraf gave a detailed presentation to the Minister about the mandate, functions, programmes, achievements and the problems being faced by PSF and the organizations working under



Minister of State for Science and Technology Mir Dostain Khan Domki chairs a presentation on working and achievements of Pakistan Science Foundation during his first visit to the organization on September 26, 2017. Secretary Ministry of Science and Technology Mrs. Yasmin Masood is also present

the Foundation, including Pakistan Museum of Natural History (PMNH) and Pakistan Scientific and Technological Information Center (PASTIC). The Minister expressed

satisfaction over the performance of PSF and said he along with the Federal Secretary S&T will visit PMNH in second week of next month.

Popular Science Lecture by Prof. Dr. Anwarul Hassan Gilani

Use of Functional Foods a must to Overcome Health Challenges of Modern Life

Prof. Dr. Anwarul Hassan Council for Science and Gilani, Chairman Pakistan Technology (PCST) stressed



Prof. Dr. Anwarul Hassan Gilani, Chairman PCST delivers a popular science lecture on "Health Challenges of Modern Life and Treating with Functional Foods and Lifestyle /Dietary Modification" at PSF on September 27, 2017.

the use of functional foods for treating diseases and overcome health challenges posed by modern life.

He was delivering a lecture on "Health Challenges of Modern Life and Treating with Functional Foods and Lifestyle /Dietary Modification" at Pakistan Science Foundation (PSF) on September 27, 2017

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From the Chairman

countries on different dates mostly in September, but in Pakistan no special attention has been paid to highlight the importance of this profession and acknowledge engineers contribution to development of the country and nation.

The relevant quarters may take some initiative to celebrate National Engineers Day in a befitting manner and pay tributes to the outstanding engineers through awards on this occasion.

Pakistan Science Foundation will extend its all out help and cooperation to national societies of engineers in celebration of Engineers Day to highlight the importance and scope of this profession.

Pakistan Science Foundation celebrates World Science Day on November 10 every year to acknowledge the contributions of scientists and engineers but there is a need to observe National Engineers Day every year on a specific date and involve students and young engineers, who are future of the country, in these celebrations to generate their interest in engineering sciences and studies.

under the Foundation's series of popular science lectures. A large number of scientists and students from different educational institutions attended the lecture.

Elaborating diseases pattern he said in olden days infectious diseases were major challenge and there was physical struggle for food that kept the people more healthy and fit. He said that in modern days there is no physical struggle for food and other amenities due to complete change in lifestyle. Plenty of food, high calories intake, dependence on impure and processed food as well as sedentary and luxurious lifestyle have posed serious health challenges.

Dr. Gilani said that modern lifestyle has affected almost every organ of the body due to obesity and overweight. He said obesity and overweight are the main causes of diabetes and cardiovascular diseases particularly in Middle East and South Asia.



Chairman PSF Prof. Dr. Muhammad Ashraf gives introductory remarks at a popular science lecture on "Health Challenges of Modern Life and Treating with Functional Foods and Lifestyle / Dietary Modification" by Prof. Dr. Anwarul Hassan Gilani, Chairman PCST at PSF on Sept. 27, 2017.

He said obesity could be cured by pharmaceutical medicines and foods modifications but the pharmaceutical medicines have many side effects. He said that functional foods have unique medicinal qualities without any side effects. He stressed the need for a balanced diet in addition to the essential elements of natural health including fresh air, pure water, sunshine, functional foods, exercises and sound sleep etc. He said that functional foods

include the foods that have medicinal values such as ginger, onion, garlic, black pepper, olive, moringa, coriandum etc.

Speaking on this occasion, PSF Chairman Prof. Dr. Muhammad Ashraf said that promotion and popularization of science are the main mandate of PSF. He said popular science lectures are one of the important activities of the Foundation to popularize science.

Sri Lanka National Science Foundation and PSF Discuss Joint Collaboration

A three-member delegation of the National Science Foundation (NSF), Sri Lanka visited Pakistan Science Foundation (PSF) on

September 15, 2017 on invitation of Chairman, Pakistan Science Foundation (PSF), Prof. Dr. Muhammad Ashraf. The NSF team was

headed by Prof. Dr. Sirimali Fernando, Chairperson of NSF. She was accompanied by the seniors members of NSF.

During the meeting various aspects of future joint collaboration were discussed. PSF and NSF by joint discussion finalized the projects for funding. The both Foundations also agreed to launch 2nd call of joint proposals. The proposals will be submitted jointly by Pakistani and Sri Lankan sciences in various scientific fields. Priority areas of joint proposal submission were also



Pakistan Science Foundation (PSF) Chairman Prof. Dr. Muhammad Ashraf and Sri Lanka National Science Foundation (NSF) Chairperson Prof. Dr. Sirimali Fernando and their respective teams discuss avenues of joint collaboration at PSF on September 15, 2017.

Quote of the Month

“A good scientist is a person with original ideas. A good engineer is a person who makes a design that works with as few ideas as possible. There are no prima donnas in engineering.”

— Freeman Dyson

finalized during the meeting. PSF and NSF also agreed to conduct joint workshop on key scientific areas.



A group photo of Sri Lanka National Science Foundation (NSF) Chairperson Prof. Dr. Sirimali Fernando and NSF delegation with Pakistan Science Foundation (PSF) Chairman Prof. Dr. Muhammad Ashraf and his team at PSF on Friday

PSF-NSLP Committee Meets for Screening of Research Proposals

A meeting of Pakistan Science Foundation-Natural Science Linkages Programme (PSF-NSLP) Screening Committee was held on September 27, 2017. PSF Chairman Prof. Dr. Muhammad Ashraf chaired the

meeting. A total of nine concept papers were presented in the meeting from different fields of Natural Sciences. Two concept papers were recommended for further processing in the field of Animal Nutrition and Poultry Sciences.

Wildlife Conservation Poster Competition

Pakistani Student Wins 3rd Position in Asian Science Camp 2017

Pakistani student Haad Khurram stood third in poster competition on Wildlife Conservation in Asian Science Camp (ASC) 2017 held in Kampar, Malaysia. Pakistani students Bakhtawar Ahmed and Haad Khurram also won two prizes each in Science Quiz Competitions.

A group of four Pakistani students including Haad Khurram, Bakhtawar Ahmed, Zeshan Khan and Farhan Shabbir, led by a team leader from Pakistan Science Foundation (PSF) Syeda Rehana Batool, Sr. Science Promotion Officer, participated in the ASC 2017 in Kampar, Malaysia on August 20-26, 2017.

ASC is an annual event that aims to enlighten science-

talented youths through discussions and dialogues with top scholars and technologists in the world and to promote the international friendship and cooperation among the best young students of the next generation in Asia.

The idea of Asian Science Camp (ASC) was co-proposed in September 2005 after the Lindau Science Meeting by Prof. Yuan-Tseh Lee from Taiwan, the 1986 Nobel Laureate in Chemistry, and Prof. Masatoshi Koshihira from Japan, the 2002 Nobel Laureate in Physics.

ASC 2017 was the 11th of the series. Malaysia was honored to be the host country for ASC 2017. The event was held at Universiti Tunku Abdul Rahman (Kampar Campus) in Malaysia.

ASC 2017 was hosted by the Kuala Lumpur Engineering Science Fair (KLESF), an initiative promoting interest in STEM among primary and secondary school students in Malaysia, and supported by Universiti Tunku Abdul Rahman (UTAR), the ASEAN



Pakistani students being awarded certificate and prizes for winning 3rd position in poster competition during Asian Science Camp 2017 in Malaysia.



Group photos of participants of Asian Science Camp 2017 in Malaysia

Academy of Engineering and Technology (AAET), Malaysian Industry-Government Group for High Technology (MIGHT) and the Institution of Engineers Malaysia (IEM).

PSF sponsored participation of

Pakistani young scientists with the objective to give a greater insight into science and its application for the benefit of all mankind through participation in ASC activities including lectures/demonstrations from leading scientists, visits to



His Royal Highness Sultan Nazrin Muizzuddin Shah Sultan Azlan Mohibuddin Shah, the Royal Patron of ASC 2017 addresses the opening Ceremony of the Camp

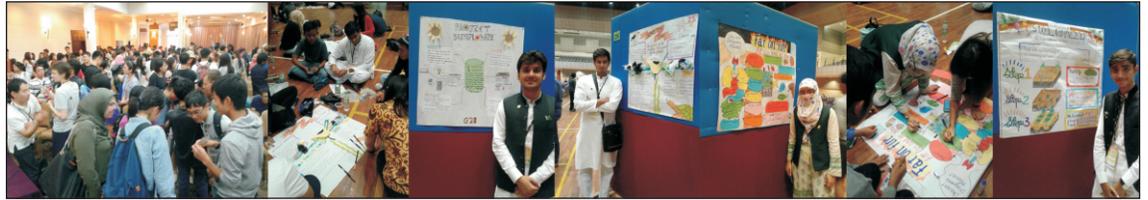


Team leaders of different countries participate in group discussion for strengthening STEM programme in Asian Countries

industrial sites, research centers, scientific institutions/organizations, world class laboratories and universities.

The selection criteria for students to participate in ASC 2017 was that students having date of birth between January 23, 1995 to February 6, 2001 and completed their HSSC/equivalent education with 1st Division were eligible to apply.

For ASC students having age between 16-21 years and Regular Science Students of 3rd year- 4th year (BS/B.Sc.) or professional studies/Engineering/Medical (1st year and 2nd Year only) having at least 1st Division in board/university examinations with strong proficiency in oral and written English and having



Glimpses of Pakistani students' participation in Poster Competition during ASC 2017

a genuine interest in science/research were selected on merit after written test and interview.

An ice-breaking ceremony of ASC was held on August 20, 2017 for introduction of participating team leaders and students. The Pakistan delegates participated in the Opening Ceremony of the ASC which was held on August 21, 2017. His Royal Highness Sultan Nazrin Muizzuddin Shah Sultan Azlan Mohibbuddin Shah, the Royal Patron of Asian Science Campy 2017, was the Chief

Guest at the opening Ceremony.

On August 22, 2017, group discussions of team leaders were held to strengthen STEM programs in Asian countries. Every country shared programmes of their country. The Programmes launched by Pakistan Science Foundation such Science Talent Farming Scheme, Mobile Science Labs and Science Media Cell for popularization of Science were much appreciated and the organizers of the ASC desired to collaborate with Pakistan Science Foundation for

replicating these programmes in Malaysia.

On August 22-24 the Nobel Laureates delivered lectures to the participating students on various topics. Pakistani students actively participated in the lectures.

On August 24, draws were held for topics of poster competition. And the poster competition was held on August 25. Pakistan Student Haad Khurram stood third in poster competition on Wildlife Conservation.

During visit of the University Campus on August 25, Pakistani students Bakhtawar Ahmed and Haad Khurram won two prizes each in Science Quiz Competitions.

On August 25, a cultural exhibition was also held during the ASC and the Pakistani students actively participated in the cultural evening and highlighted Pakistani cultural through singing and folk dance performances.

The Closing Ceremony of the ASC was held on August 26 and the Pakistani students were awarded with prizes and certificates.



Glimpses of lectures by Nobel Laureates, cultural exhibition and other activities during the ASC 2017

6,881 Students Visit Science Caravan Exhibitions in September 2017

As many as 6,881 students visited science exhibitions arranged by PSF Science Caravan Units in September 2017 in different cities of the country. The detail is as under:

Federal: The PSF Science Caravan Federal Unit arranged a Planetarium show in PakTurk International School & College, G-10 on 23rd September, 2017. About 250 students, teachers and

parents attended the show.

Peshawar: The PSF Science Caravan Peshawar Unit arranged science exhibitions in GHSS-Bari Kot Swat and GHS-1 Havelian, Abbottabad on September 11-16 and September 18-23, 2017 respectively. In these events 1,671 students, 151 teachers from nine schools participated.

Tandojam: The PSF Science Caravan Tandojam Unit arranged Science at Bright Future Model School Pangrio, district Badin on September 24-29, 2017. About 1,148 students, 62 teachers from 13 schools visited the exhibition. Prof. Dr. Bashir Ahmed



Prof. Dr. Bashir Ahmed Shaikh, Ex-Chairman, PSF visiting Mobile Science Lab at Tandojam



Students are being briefed during caravan exhibitions arranged by Peshawar Unit

Shaikh, Ex-Chairman PSF, Ex-Vice Chancellor, S.A.U Tandojam, Ex-Vice Chancellor, S.A.L.U, Khairpur visited the Mobile Science Lab at Science Caravan Sindh, Tandojam. Mr. Khalid Hussain Soomro, Assistant Director briefed him in detail.



Glimpses of Science Exhibition arranged by Tandojam Unit



A Team from IBA, Sukkur being briefed about PSF Mobile Science Lab at Sukkur

Sukkur: The PSF Science Caravan Sindh Unit, Sukkur arranged Science exhibition at Govt. Boys Higher Secondary School Bungle-Dero, District Larkana on September 11-16, 2017. Mr. Abdul Ghaffar Daudpoto, Principal, Govt. Boys Higher Secondary School Bungle-Dero inaugurated the



Glimpses of Science Exhibition arranged by Sukkur Unit

science exhibition. Over 1,950 students, teachers and other staff from 10 schools visited the exhibition.

The Directors / Assistant Professors of IBA Sukkur visited the Mobile Science Lab / Bus on September 7, 2017. Mr. Irfan Ahmed, Assistant Director and Mr. Muzaffar Ali, ASO briefed them about Mobile Science Lab and overall activities of PSF's Science Caravan Sindh Unit, Sukkur.

Punjab: The PSF Science Caravan Punjab Unit arranged science exhibitions at GGHS and GHS Naushera District Khushab on September 11-22, 2017. Over 1,800 students and teachers from three schools participated.

Popular Science Lectures

Peshawar: The PSF Science Caravan Peshawar Unit arranged Popular Science Lectures at GHSS-Barikot & GHS-1 Havelian, Abbottabad, on the themes "Biology The Life of Future, Present



Popular Science Lecture arranged by Peshawar Unit

and Beyond" by Dr. Asghar Ali, Associate Professor, Dr. Khan Shaheed Degree College Kabal Swat and "Different Type of Machines" by Dr. Shafqat Hussain, Directorate of Curriculum & Teacher Education, Abbottabad on 13th September, 2017 & 23rd September, 2017 respectively. The lectures were attended by over 500 students and teachers.



Glimpses of Popular Science Lectures arranged by Tandojam Unit

Tandojam: The Science Caravan Tandojam Unit arranged Popular Science Lecture on "Food and Nutrition" at Govt. Girls High School No.1 Farm Colony Tandojam on September 19, 2017. Dr. Aasia Akbar Panhwar, Assistant Professor, Institute of Food Science & Technology, Sindh Agriculture University Tandojam delivered lecture to students and teachers. Over 130 teachers and students attended the program.

Quetta: The Science Caravan Quetta Unit arranged lecture on "Energy Demand in Pakistan and Solutions of the Problems" at



Popular Science Lecture arranged by Quetta Unit

Iqra Residential School/College, Quetta on September 20, 2017. Prof. Dr.

Syed Zaheer Abbas Gillani delivered the lecture. Over students and eight teachers attended the lecture. The guests along with speaker also visited STFS Science Lab and appreciated the facility.

Jaffarabad: Science Caravan Jaffarabad Unit arranged a one-day popular science lecture on "Importance of Science and Technology for Human Beings" at Govt. Girls Degree Collage

Dera Allah Yar on September 28, 2017. Mr. Sajjad Ahmed Abro, Director



Glimpses of lecture arranged by Jaffarabad Unit

SHADE, delivered the lecture. About 247 participants attended the lecture. DEO Jaffarabad Mulla Muhammad Umrani, DEO Female Jaffarabad Miss Zulaikha, Principal Boys Collage Muhammad Ayub Khoso and other professors and lecturers were also present.

Science Fair at PakTurk School and College, Islamabad

PakTurk International School and College, G-10 Branch Islamabad organized a science fair on 23rd September, 2017. Dr. Ghazala Roohi, Secretary PSF, was the Chief Guest on this occasion. During the fair, Grade-V students presented some fascinating working scientific models. Poster competition on the "World in 2050" was also held. Jury from PSF Ms. Zaiban Farooq, Assistant Director and Mr. Nusrat H. Zaidi evaluated the projects and posters of the students and marked top three positions. In the ceremony, Dr. Ghazala distributed cash prizes and certificates among winners-students.



Glimpses of Science Fair at PakTurk School G-10 Islamabad

Pakistan Museum of Natural History (PMNH)

Editor: Dr. Muhammad Ismail Bhatti

PMNH, MoCC Sign MoU of Collaboration

DG PMNH Dr. Muhammad Rafique and Mr. Ayaz Khan, National Programme Manager, Ministry of Climate Change (MoCC) signed memorandum of Understanding (MoU) on September 08, 2017 at PMNH for collaboration between the two organizations.

The main objective of this MoU is to conduct baseline studies of forest ecosystems and training of forest and wildlife staff at eight different localities in the country. This is a good initiative for both the organizations to join hands in the great cause to conserve forest ecosystems.



DG PMNH Dr. Muhammad Rafique and Mr. Ayaz Khan, National Programme Manager, Ministry of Climate Change (MoCC) sign memorandum of Understanding (MoU) on September 08, 2017

Sri Lankan Delegation visits PMNH

A three-member Sri Lankan delegation visited PMNH on September 16, 2017. The delegation visited different galleries and asked many questions related to natural history of Pakistan. Director Public Services Division, Dr. Syed Lal Shah, Director Research Support, Dr. Mirza Habib Ali and Mr. Imran

briefed the guests in detail about PMNH/PSF. The delegation showed keen interest in the galleries representing natural history of Pakistan.

Baluchistan: A group of 4 members from Baluchistan government headed by Mr. Dilawer Kasi, Superintendent Excise and Taxation, Quetta,



visited PMNH on September 10, 2017. The delegation visited different galleries and took special interest in the specimen collected from Baluchistan like Baluchetherium.

Assistant Commissioner Peshawar: A 3-member group

from Peshawar, along with Mr Sajid Nawaz, Assistant Commissioner Peshawar, visited PMNH on September 18, 2017. The guests visited different galleries and were amazed to see preserved small and large samples related to natural history of Pakistan.



Indus Blind Dolphin Biosphere Reserve in Pakistan

PMNH, UNESCO Join Hands for Dossier Preparation

Protection of the Indus Blind Dolphin (*Platanisa minor*) is global priority as it is an endangered species of fresh water cetacean endemic to Indus River system in Pakistan. Its population is facing decline because of construction of barrages, industrial and municipal pollution, canal stranding, un-sustainable fishing, net entanglement and fisherman harpooning.

Earlier, this species has been protected by declaring Indus Blind Dolphin Game Reserve in 1974 (210 km stretch between Guddu & Sukkur Barrage) and CITES Appendix-I and endangered as per IUCN Red List. Now, PMNH is going to prepare a Dossier for Indus Blind Dolphin Biosphere Reserve wherein whole ecosystem of this species will be brought under sustainable protection/conservation by involving multiple stakeholders from Chasma Barrage to Sukkur Barrage (KPK, Punjab and Sindh provinces). This Biosphere Reserve will be a good example of interprovincial coordination for protection and conservation of Indus Blind Dolphin.



PMNH to Mark 40 Years Celebrations with Colourful Programmes in October

PMNH will mark its 40 Years celebrations with colourful programmes in October 2017. To mark the 40th anniversary PMNH has chalked out different activities on October 12-13, 2017 under the guidance of Chairman PSF Prof. Dr. Muhammad Ashraf and DG PMNH Dr. Muhammad Rafiq. To discuss different activities to mark the day, a review and planning meeting was called by DG PMNH in audio visual hall of PMNH on September 28, 2017. All directors and officers of PMNH attended the meeting and different agenda items were discussed under the chair of DG PMNH.



PMNH Scientist Attends SOFT Meeting

On the request of Vice-President Society of Facilitators and Trainers of Pakistan, Dr. Muhammad Ismail attended the annual review meeting of the organization on September 15-17, 2017 at Barra Gali, KPK. The main objective of this meeting was to update the organization about progress of two tunnels donated by SOFT-Pakistan to PMNH for imparting education to visitors regarding mushroom

cultivation.

Dr. Muhammad Ismail briefed in detail about Mushroom Garden and all the members appreciated the endeavor and expressed satisfaction over the progress. The Chairman SOFT-Pakistan, Prof. Dr. Iftikhar Hussain also informed the house that he himself visited the tunnels and met DG PMNH about progress of the tunnels. The house showed interest in collaboration with PMNH in future.



Number of Monthly Visitors to PMNH on Rise

The efforts of Chairman PSF Prof. Dr. Muhammad Ashraf to uplift PMNH by its beautification and adding new dioramas to its display galleries have started bearing fruits as the number of visitors to PMNH displays is increasing day by day. During the month of September 2017 a total of 10,665 visitors including 6,847 general public, 1,230 students, 2,560 children under 5-years of age and 28 foreigners visited PMNH display galleries.



PSF Chairman Reviews PMNH Activities



Prof. Dr. Muhammad Ashraf, Chairman PSF, called a meeting with DG PMNH Dr. Muhammad Rafique, Secretary PSF/Director ESD Dr. Ghazala Roohi, Director PSD Dr. Syed Lal Shah and Incharge/Associate Curator BSD, Dr. Muhammad Ismail to review different activities of PMNH. DG PMNH briefed the Chairman about current activities of different divisions. The Chairman PSF gave various instructions to PMNH scientists for strengthening the organization.

The Lotus, the flower, the roots

Lotus is a cash crop in Sindh province, which is quite unique thing for other cultivators even within Pakistan. Local people eat Lotus roots (called "Beh" in Sindhi language) as vegetable with bread made from rice flour. The seeds of lotus are also edible and good source of income. Lotus seeds and roots both are enriched with all

vitamins and minerals as contained by other roots as potatoes, turnips etc but these are far tastier than all other root vegetables. The lotus flower has unique significance in the history and culture of Indian subcontinent. PMNH has also established a lotus pond which is a big attraction for the visitors.



Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Obaid Anwar

Training Workshop on "Mendeley Tool" at PASTIC



A group photo of the Participants of the Training Workshop on Mendeley with Ms Nageen Ainnuddin, Director General PASTIC and Dr Maryum Ibrar Shinwari, SSIO PASTIC.

In order to enhance the research capabilities and to inculcate modern thesis writing trends in researchers. PASTIC regularly organizes training workshops on Mendeley. PASTIC organized a training workshop on "Make your research life easier with Mendeley Tool" on 20-21st September, 2017 at PASTIC

National Centre, Quaid-e-Azam University Campus, Islamabad.

The objective of this workshop is 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 in an

opportunity was provided to learn and practically use different features in *Mendeley* application starting from creation of Mendeley account to insertion of bibliography in MS Word application.

Dr. Maryum Ibrar Shinwari, Senior Scientific Information Officer (PASTIC) and Mendeley Advisor was the resource person of the workshop. 14 Participants from Quaid-e-Azam University, PSF & Cyber vision participated in this hands-on-training workshop. PASTIC has been



Participant receiving certificate from Ms Nageen Ainuddin, Director General PASTIC on closing ceremony of Mendeley Training Workshop.

regularly organizing this series of workshop on monthly basis to train the young researchers on modern tools and techniques.

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 September.

Karachi

- First stall was organized on 20th September, 2017 at Faculty of engineering, Hamdard University, Karachi.
- Second stall was organized on 7th September, 2017 at Karachi Medical & Dental College, Karachi.

Muzaffarabad

- A stall was organized on 19th September, 2017 at University of Azad Jammu & Kashmir, Muzaffarabad.



Mr. Abdul Fatah Shaikh & Miss Afsheen Tariq PASTIC Sub Centre Karachi arranged PASTIC service Stall at Karachi Medical & Dental College on 07-09-2017



Prof. Dr. Muhammad Kaleem Abbasi Vice Chancellor visited the Stall with Students & Faculty Members.

Training/Workshop on SPSS at PASTIC Sub-centre Karachi



Mr. Abdul Fatah Shaikh, Deputy Director STI addresses during Inaugural session of the SPSS workshop at Hamdard University Karachi.

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 PASTIC Sub-centre, Karachi organized a three-day training workshop on "SPSS Research Methodology", from September 19-21, 2017, with collaboration of Quality Enhancement Cell, Hamdard University Karachi. Deputy Director QEC, Hamdard University, was the chief guest in the opening session and inaugurated the workshop. More than 50 participants participated in the workshop. Mr. Abdul Fateh Sheikh, Deputy Director (STI), PASTIC Sub-Centre Karachi, delivered a presentation on PASTIC Information Services. During the closing session Prof. Dr. Shabib ul Hasan, Vice Chancellor, Hamdard University Karachi was the Chief Guest. He distributed certificates, shields and souvenirs to the participants, resource person and organizers.



Dr. Nazeer Khan Resource Person & Director ORIC, Jinnah Sindh Medical University addressing the closing session of the SPSS workshop at Hamdard University

Awareness Seminars for the Promotion of PASTIC Services

PASTIC arranged following three awareness seminars in following Universities:

Quetta: The PASTIC Sub-Center, Quetta arranged a one day seminar on PASTIC activities at Biochemistry department, University of Balochistan, Quetta on September 14th, 2017. During the seminar, Mr. Faisal Hilal, Asstt. Documentation Officer, PASTIC, delivered a presentation on PASTIC Information Services to the students, researchers and faculty members of the department.

The PASTIC Sub-Center, Quetta arranged a one day seminar on

PASTIC activities at Bio-technology department, Sardar Bahadur Khan Women's University, Quetta on September 15th, 2017. During the seminar, Mr. Faisal Hilal, Asstt. Documentation Officer, PASTIC, delivered a presentation on PASTIC Information Services to the students, researchers and faculty members of the department.

The PASTIC Sub-Center, Quetta arranged a one day seminar on PASTIC activities at Bio-technology department, Sardar Bahadur Khan Women's University, Quetta on September 26th, 2017.

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