

Prof. Dr. Muhammad Ashraf
Chairman
Pakistan Science Foundation



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From the Chairman



The developed countries are heavily investing in science and technology (S&T) and public and private sectors are equally contributing to it. As the result, they are reaping the fruits of fast scientific and technological developments which are leading to socio-economic progress and ever improving living standard of their people. Even countries like Ethiopia, Kenya and Nigeria used S&T as a tool of national development and made marvelous progress in various fields, especially in agriculture and industry.

Unfortunately, due to many reasons the developing and underdeveloped countries have either ignored the importance S&T or investing very little in it on the pretext of shortage of funds and budgetary

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PSF, Lanzhou University sign MoU for Scientific and Technological Cooperation Govt to invest in human resource development: Rana Tanveer

Human capital is the strength of country, so, the present government has decided to invest in developing our human resource, said Federal Minister for Science and Technology (S&T) Mr. Rana Tanveer Hussain.

The Federal Minister was speaking as the Chief Guest at a ceremony regarding signing of MoU on Scientific and Technological Cooperation between Pakistan Science Foundation (PSF) and Lanzhou University, China on September 29, 2015 at PSF, Constitution Avenue, G-5/2, Islamabad.

PSF Chairman Prof. Dr. Muhammad Ashraf and Lanzhou University China, President Prof. Dr. Wang Cheng signed the MoU.



Federal Minister for Science and Technology Rana Tanveer Hussain and others witness signing of MoU by PSF Chairman Prof. Dr. Muhammad Ashraf and Lanzhou University China, President Prof. Dr. Wang Cheng.

Federal Secretary for S&T Mr. Fazal Abbas Mekan, senior officers form Ministry of S&T and heads of S & T organizations also attended the ceremony to witness the MoU signing.

The Minister said that Scientific education is the main source of development, therefore, the Government has

given due emphasis to knowledge in its Vision 2025. "We are committed to fully support the programmes for providing opportunities to young scholars for their scientific development, he said adding, in this regard, PSF has also been given the task of "Science Talent Farming Scheme" to hunt young scientific minds and prepare them to become professional scientists of future.

The signing of this MoU today is a step in right direction as these special occasions provide an opportunity and direction to our scientific community to make their efforts, Rana Tanveer Hussain said.

He showed his immense



Federal Minister for Science and Technology Rana Tanveer Hussain addresses a ceremony regarding signing of MoU between Pakistan Science Foundation and Lanzhou University China.

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constraints. It is a common saying "where there is a will, there is away", and we have to find out the way to overcome the problem of funds shortage by learning and benefitting from the experiences of other countries. The globalization has revolutionized the world and many under-developed countries realizing the situation are progressing by adopting technologies and scientific methodologies of other countries through mutual collaborations and scientific and technological cooperation.

Pakistan is a developing country and doesn't have enough resources to make heavy investment in S&T.

In such a situation it is need of the hour that the higher institutions of education and S&T and Research and Development institutions of the country may forge cooperation with similar institutions of other countries for sharing and generation of scientific and technological knowledge and transfer of technology. They should also set priority areas for cooperation keeping in view the needs of the country.

With the IT revolution, the world has become a global village and even a developed country can't survive in isolation. Pakistan Science Foundation has signed MoUs of cooperation with various S&T institutions of different countries for joint research projects, sharing knowledge and technology and using science for world peace and benefit of humanity. The S&T institutions must follow the suit to achieve the targets of national development.

pleasure over current visit of Chinese delegates. He felt it is a noble endeavor as Pakistan is an agro-based economy, and its major proportion of GDP depends on agriculture. He was confident that the technology introduced by Chinese friends will lead us to transform our barren land into most productive. He applauded the efforts of the Chairman PSF and his team. He thanked Prof. Dr. Wang Cheng and the Chinese delegates for visiting Pakistan and for interacting with Pakistani scientists and providing them technological help and guidance.

Mr. Fazal Abbas Mekan spoke on the Pak-China economic corridor and termed it the beginning of a new era of economic development in the region. He said that this MoU is being instituted between two prestigious institutions of Pakistan and China. He said this MoU will open new vistas of cooperation between the two brotherly countries.

Speaking on the occasion, PSF Chairman Prof. Dr. Muhammad Ashraf said that Lanzhou University, China, is among the 400 top universities of the world. He highlighted China's success in growing

crops on dry-land in Lanzhou region. He said that the same technology is being transferred to Pakistan and the Chinese team in collaboration with Sargodha University, Pakistan is busy experimentation on the University land in Sargodha.

Under the MoU, PSF and the Lanzhou University have agreed to establish scientific and technological collaboration which would be of mutual advantage to both Institutions. To strengthen such collaboration, both institutions have agreed for active research collaboration in the fields of Natural and Physical Sciences.

45TH Meeting of PSF Board of Trustees Held



A group photo of PSF Board of Trustees after the meeting.

The 45th Meeting of PSF Board of Trustees was held on September 10, 2015, which was presided over by the Foundation Chairman, Prof. Dr. Muhammad Ashraf.

Almost all members of the Board attended the meeting which approved the PSF budget for the fiscal 2015-16. The Board also took important decisions on the Foundation's policy and administrative matters.

Those who attended the meeting included Prof. Dr. Anwar-ul-Hassan Gilani, Chairman, Pakistan Council for Science & Technology, Islamabad; Prof. Dr. M. Qasim Jan, Advisor, COMSTECH, Islamabad; Prof. Dr. Nilofar Shiekh, Vice Chancellor (VC), Preston University, Karachi; Prof. Dr. M.D. Shami, Former Chairman, PSF, Islamabad; Prof. Dr. A.Q. Ansari,

Rector/VC, Al-Khair University, Islamabad; Prof. Dr. M. Masoom Yasinzai, Rector, International Islamic University, Islamabad; Prof. Dr. M.A.K. Malghani, Pro-VC, Balochistan University of Information Technology and Management Sciences, Quetta; Prof. Dr. Bhwani Shankar Chaudhary, Dean, Faculty of Electronical,

Electronics and Computer Engineering, Mehran University of Engineering & Technology, Jamshoro; Prof. Dr. Ikram-ul-Haq, Professor Emeritus, Institute of Industrial Biotechnology, Government College University, Lahore; Prof. Dr. M. Aslam Baig, Consultant, National Centre for Physics, Quaid-i-Azam University, Islamabad; Prof. Dr. Khan Bahadur Marwat, VC, Shaheed Benazir Bhutto University, Sheringal, Dir Upper, Khyber Pakhtunkhwa; Prof. Dr. Muhammad Akram Shaikh, Member Science, PSF, Islamabad and Mr. Hasnat Ahmed Qureshi, Member Finance, Islamabad.



PSF Chairman Prof. Dr. Muhammad Ashraf presides over 45th Meeting of PSF Board of Trustees on September 10, 2015.

PSF Organizes Project Formulation Workshop at University of Poonch, AJK

Pakistan Science Foundation under its Natural Sciences Linkage Programme has been organizing a series of Project Formulation Workshop for the capacity building of researchers across the country. So far, eleven workshops have been organized across the country.

Two days workshop on project formulation held on Sep 02-03, 2015 at the University of Poonch, AJK. The workshop was aimed to increase the research proposal writing skills of scientists working in different public sector universities and R&D organizations in Rawalakot

and adjoining areas.

Proceedings of the inaugural session started with recitation of Holy Quran. Addressing the occasion, Vice Chancellor, University of Poonch, Dr. Muhammad Kaleem Abassi, AJK welcomed the PSF team, worthy guests and thanked PSF for organizing the workshop at the University of Poonch, AJK. Dr. Mirza Habib Ali, Director Research Support, PSF explained the role of PSF for the promotion of S&T in the country and main objectives of the workshop. He added that the workshop is aimed to train the researchers in good proposal



PSF Chairman Prof. Dr. Muhammad Ashraf chairs the inaugural session of fund-winning research projects formulation workshop at the University of Poonch, Rawalakot.



PSF Chairman Prof. Dr. Muhammad Ashraf addresses the inaugural session of fund-winning research projects formulation workshop at the University of Poonch, Rawalakot.

writing, create awareness about PSF-NSLP funding process and procedures and to encourage scientists to prepare need based research proposal within the NSLP priority areas. The Chairman PSF, Prof. Dr. Muhammad Ashraf (Sitara Imtiaz) explained the role of PSF and emphasized the participants to get maximum benefit from this workshop. He added that it is time for the scientists to work proactively and reach out to the national and international funding

opportunities. The scientists and faculty of the university need to explore new avenues for project funding and concentrate on the problem solving research.

About 54 Scientists were trained about the different aspects of project writing by PSF experts in different technical sessions. Workshop aided in raising the skills of researchers about formulating research proposals before submitting to PSF and elevating standards of research in the country.

Focus on Applied Research for New Technologies, Says PSF Chief

PSF Chairman Prof. Dr. Muhammad Ashraf was the Chief Guest at closing ceremony of a two-day Workshop on “Supervising and Mentoring Research Students” at COMSATS Lahore Campus on 18th September, 2015.

The Department of Chemical Engineering, CIIT Lahore, in collaboration with the Environmental Society of Pakistan and Pakistan Membrane Society jointly organized the designed for the

early career faculty members to transform them from a research student to a research group leader. The activity was aimed at providing preliminary training to the faculty members for starting their career in research supervision.

A large number of faculty members from the Punjab University, University of Agriculture, Faisalabad, University of Lahore, University of Gujrat, Government College Women

University, Sialkot, the Women University, Multan, CIIT, Lahore and Vehari.

Prof. Dr. Muhammad Ashraf said the context of research has been changed a lot in recent years. “Now, we are focusing more on applied projects which may come up with the development of new

technology, and may facilitate public in large.” He said that the future of Pakistan depends on the development of science and technology.

Dr. Ashraf presented shields to resource persons and organizers of the workshop. He also awarded shields and certificates to the participants.



Prof. Dr. Muhammad Ashraf, Chairman PSF, addresses the closing session of workshop on “Supervising and Mentoring Research Students” at COMSATS Lahore, Campus.



A group photo of the participants of the workshop with Prof. Dr. Muhammad Ashraf, Chairman

PSF and Turkish Experts Visit NIFA

A team of experts from PSF and Turkish Cooperation and Coordination Agency (TIKA) visited Nuclear Institute for Food and Agriculture (NIFA) on September 8, 2015 to discuss possibilities of funding to PSF for dissemination of the “Biogyser Technology” developed by NIFA Scientists. PSF team included Dr. Mirza Habib Ali, Director, Research Support and Dr. S. Lal Shah, Director, PSD, Pakistan Museum of Natural History while TIKA team comprised

Mr. Mustafa Giray Tezel, Coordinator, Mr. Onur Ozturk, Deputy Coordinator and Engr. M u h a m m a d U s a m a , Consultant (Waste to Energy). The team was briefed about the activities at NIFA and was given detailed demonstration about the working of Biogyser by Dr. Wisal Muhammad, Head Soil Science Division.

The Turkish team appreciated the efforts of NIFA scientists in developing low cost, simple and potentially very effective technologies for the benefit of



PSF Team along with Turkish and NIFA scientists at NIFA, Peshawar.

farmer community, which will support for further technical have long term positive effects i m p r o v e m e n t a n d on the economy of the country. popularization of the The PSF-TIKA team assured technology.

9, 358 Students of 56 Schools Visit Science Caravan Exhibitions in Sept.

PSF Science Caravan Units arranged science exhibitions in schools of their respective areas in September 2015 and 9,358 students from 56 schools of the country benefitted from such science displays.

Federal Unit: Science Caravan Federal Unit arranged Science Caravan Exhibition at Govt. Girls Higher Secondary School, Smote, Kallar Syedan on September 14-18, 2015 and students from area schools visited the exhibition.



Glimpses of Science Caravan Exhibition at GGHSS, Smote, Kallar Syedan

Sukkur Unit: The Science Caravan Sukkur Unit arranged the Science Caravan exhibition at Govt. (Boys) Higher Secondary School for the schools of Taluka Pano Akil, District Sukkur on August 3 to September 15, 2015. About 2,650 students, teachers and other staff of 15 schools visited the science exhibition. Another science caravan exhibition was arranged at Govt. High School Dadloi on September 16-18, 2015. During the exhibition, about 650 students, teachers of five schools participated. The Assistant Director, Sukkur Unit handed over Encyclopedia, DVD, posters, brochures and books to the Principal of the school.



Students being briefed during caravan exhibition arranged by the Sukkur Unit.

Peshawar Unit: The Science Caravan Exhibitions were arranged by Peshawar Unit at GCMHS-Dir and GHS-Gamseer, Dir on August 24 to September 03 and September 04-16, 2015 respectively. In total, 4,137 students, 101 teachers from 28 schools visited these two exhibitions.



A view of Science Exhibition and Planetarium Show arranged by Science Caravan Peshawar Unit.



Planetarium Show arranged by Science Caravan Quetta Unit

Quetta Unit: The PSF Science Caravan Balochistan Unit, Quetta arranged Science Exhibition/Planetarium show on September 10-22, 2015 at Quetta City. About 1,776 students from six Govt Boys / Girls High Schools and Private Schools visited the exhibition.

Jaffarabad Unit: The Science Caravan Jaffarabad Unit arranged science exhibition and walk for science at Noorpur Middle School Usta Muhammad, District Jaffarabad on September 10, 2015. As many as 145 students and teachers participated in this activity.



Participants of Science Walk with Science Caravan Jaffarabad Team

IBSE Training Provided to Kallar Syedan Teachers & Students

PSF Science Caravan Federal Unit arranged a training session on Inquiry Based Science Education (IBSE) on



Students and teachers performing hands on activities during IBSE training session at a Kallar Syedan school.

September 17, 2015 at Govt. Girls Higher Secondary School, Smote, Kallar Syedan. In the session, 15 teachers and 20 students from the said school and nearby schools participated. Ms. Zaiban Farooq, Assistant Director, PSF gave an orientation to the participants about IBSE and its objectives. Later on, the teachers and students performed hands on activities to learn different phenomenon and laws of science. All the teachers and the Principal of the school appreciated the activity.



PSF Chairman Prof. Dr. Muhammad Ashraf addresses the 4th International Molecular Biology and Biotechnology Congress at Isra University, Islamabad on September 5, 2015.



PSF Chairman Prof. Dr. Muhammad Ashraf being presented a souvenir by the organizers of the 4th International Molecular Biology and Biotechnology Congress at Isra University Islamabad Campus on September 5, 2015.

Pakistan Museum of Natural History (PMNH)

Editor: Dr. Muhammad Ismail Bhatti

President of China's Lanzhou University Visits PMNH

A Chinese delegation headed by President of Lanzhou University, China, Prof. Dr. Wang Cheng, visited Pakistan Museum of Natural History (PMNH) on September 30, 2015. The Delegation's other members included two professors and senior officials from the Lanzhou University, China.

The delegation was on an official visit to Pakistan for signing a Memorandum of Understanding (MoU) on Scientific and Technological Cooperation with Pakistan

Science Foundation (PSF), Islamabad.

PMNH Director General Dr. M.K. Leghari and Directors received the delegation and briefed its members about activities and functions of the Museum. The delegation members took a round of different display galleries and appreciated role of PMNH in research on natural history of Pakistan, documentation of natural resources of the country and public education through displays and other modes of communication.



A group photo of Lanzhou University, China delegation and PMNH scientists with Blue Whale skelton at PMNH.



A group photo of Lanzhou University, China delegation and PMNH scientists with life size model of Balochitherium at PMNH.

ZSD Team Carries Out Field Work in Chitral and Swat Valleys



Glimpses of field work in Chitral and Swat valleys.

A Zoological Sciences Division (ZSD), PMNH, team comprising Mr. Mishkat Ullah, Research Associate along with Mr. Fida Muhammad, Senior Skeleton Preparator and Mr. Khurram Hussain, Skeleton Preparator carried out 15-day field work in Chitral and Swat valleys from 20th August 2015 to 3rd September 2015. The

field work was designed for the collection of ground beetle fauna. The Chitral valley areas including Garam Chashma, Buni, Mastuj, Barir, Madak Lasht and Shishi and Swat valley areas including Mingora, Miandam, Kalam, Mahudant, Gubral, Kumrat Forests, Marghzar, Malamjaba and Char Bagh were

thoroughly searched out. Specimens were collected by hand searching on the ground, pitfall trapping and Ultra Violet light trap (at night time). The

field work resulted in collection 1,100 specimens of ground beetle besides 50 butterfly, 10 lizard and 15 toad specimens.

400 Fish Specimens Collected from Sindh Coastal Areas

Dr. Shabir Ali Amir, Associate Curator, Zoological Sciences Division (ZSD), PMNH, along with Mr. Zafar Iqbal, Field Assistant carried out field work in Sindh Coastal areas including Keti Bander, Ibrahim Hayderi, Korangi Creek, Sand Spit, Hawks Bay and Hub River Estuaries for the collection of Schenids and other fishes on September 10-20, 2015. Gill net and cast net were used to collect marine fishes. This field work resulted in collection of 400 taxonomically important fish specimens.

Botanists Collect 250 Medicinal Plant Specimens from Mirpur, AJK

PMNH Botanists including Dr Rizwana Khanum and Shehnaz Zakia conducted 6-day field work in Mirpur, Azad Jammu and Kashmir (AJK), and adjoining areas on September 10-16, 2015. The research work was aimed at collection of medicinal plant specimens of the area. About 250 specimens were collected during the tour and added to the higher plants herbarium of the Museum.

PMNH Botanist Explores Flora Diversity of Muzaffarabad, Neelam Valley

A team from Botanical Sciences Division (BSD), PMNH, comprising Dr. Syed Aneel Ahmad Gilani, Associate



Curator, Mr. Jamshed Saqib and Mr. Munir Ahmad visited Muzaffarabad and Neelam Valley areas for the collection of higher and lower plants.

A total of 242 higher plants' (Angiosperms and Gymnosperms) specimens as well as 150 algal samples were collected. The collected plant samples represent the diversity of the flora in Neelam valley and Muzaffarabad.

Haripur, Mirpur Universities' Students Complete Internship at PMNH



Shields being presented to PMNH Geologists for internship training to the students of University of Haripur.

Pakistan Museum of Natural History provided internship facility to 40 students of Department of Geology, University of Haripur, during their summer vacations. The certificate distribution ceremony among the students who completed internship was held at the Department of Geology, University of Haripur on September 16, 2015. The appreciation shields were presented to the PMNH scientists for sharing

their knowledge with the students.

Two students namely Sibgha Malik and Amna Mir of BS Biotechnology from Mirpur University of Science and Technology, Mirpur, AJK, completed their internship in lower and higher plants preservation techniques at Botanical Sciences Division (BSD), PMNH. Dr. Sumaira Sahreen and Dr. Muhammad Ismail provided training to these students.



A group photo of the University of Haripur students and faculty members with PMNH Geologists.

University of Haripur Students trained on Zoological Techniques

PMNH Zoological Sciences Division (ZSD) scientists provided 10-day basic zoological techniques training to 13 student of Department of Wildlife Management,

University of Haripur from 26th August 2015 to 4th September 2015. Their faculty members also accompanied during technical sessions. Muhammad Asif Khan, Associate Curator, provided training on field methodologies used for ecological studies of

mammals in different habitats, while Dr. Shabir Ali Amir, Associate Curator, provided training on geographical distribution and composition of fish fauna and Mr. Rafaqat Masroor, Associate Curator, on herpetological fauna of Pakistan.

PSD Gets New Director



Dr. S. Lal Shah has assumed his duties as Director (BS-20), Public Services Division, PMNH. Earlier he was working as Principal Scientific Officer (BS-19), Research Support, Pakistan Science Foundation. He has been appointed on merit through a strict procedure on the vacant post of Director PSD by the Selection Board after advertising the post and the appointment was approved by the PSF Board of Trustees.

Seven Officers of PMNH Promoted

The PSF Selection Board has promoted seven officers of PMNH. Dr. Ghazala Roohi, Curator/Acting Director (BS-19) ESD has been promoted to Director ESD (BS-20), Mr. Rahat Saeed, Exhibit Designer (BS-18) to Operational Manager (BS-19) and Mr. Shabir Ali Aamir, Mr. Muhammad Abbas, Mr. Raffaqt Masroor, Ms. Shehnaz Zakia and Saadia Munir, Research Associates

(BS-17) to Associate Curators (BS-18).

Mr. Rafaqat Masroor, Associate Curator (BS-18), ZSD has relinquished charge of his duties and relived from PMNH/PSF services w.e.f September 29, 2015 to join as Deputy Director, Quality Enhancement Cell (BS-18), University of Science and Technology, Bannu. His lien has been retained for a period of two years.

PMNH Website's Urdu Version to Launched Soon

On the orders of the Government of Pakistan, PMNH IT Department has developed Urdu Version of its website, which will be launched soon after approval of the competent authority.



3,291 Persons Visit

PMNH in September

In September 2015 as many as 3,291 persons including 1,550 general public, 965 students, 900 children below years of age and 26 foreigners visited the display galleries of Pakistan Museum of Natural History.

Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Mrs Rahila Khurram

Workshops at University of Agriculture, Peshawar & University of Haripur

88 Research Scholars Introduced with Bio-safety Measures

PASTIC Sub Center, Peshawar in collaboration with National Academy of Young Scientists (NAYS) organized two workshops on "Bio-safety" at Agriculture University, Peshawar and at The University of Haripur, Haripur on September 1 and September 2, 2015 respectively.

The main objective of the workshops was to orient the faculty members and research scholars (M. Phil/PhD) about the basics of Bio-safety

measures and to reduce the possible exposure of the laboratory worker/researchers to potentially infectious or toxic agents. About 53 participants attended and through hands-on-training learnt the importance of Bio-safety measures, handling of pre and post situations in any case of accidental situation in labs during their research work. The Chief Guest of the 1st workshop was Prof. Dr. Iqbal Munir, Institute of Biotechnology & Genetic Engineering (IBGE-Peshawar). He shared his views about worth and necessity of this activity especially for faculty members. He appreciated the efforts of PASTIC, NAYS & Department of Agriculture Chemistry for



A group photo of the participants of the Workshop on "Biosafety" at Agriculture University, Peshawar.

arranging the activity. Prof Dr. Zahoor Ahmed Swati, Vice Chancellor, the University of Agriculture, Peshawar also addressed the workshop.

The workshop at the University of Haripur was attended by 35 researchers. At both the workshops, Ms. Aneela Yasmeen, NAYS, Events Coordinator, briefed the participants about NAYS & its scientific activities for

researchers. Mrs. Ghazala Ali Khan, Deputy Director, PASTIC-Peshawar, briefed the participants about PASTIC/PSF services for researchers throughout Pakistan and particularly in Khyber Pakhtunkhwa province. At the end of workshops, shields and certificates were distributed among the resource persons and participants of workshops.



Mrs. Ghazala Yasmin, Deputy Director, PASTIC Peshawar, delivers a presentation about PASTIC S&T Services

Awareness Seminar at Karachi

PASTIC Sub Centre Karachi arranged a one-day Awareness Seminar at Nazir Hussain University, Karachi on September 17, 2015. Mr. Muhammad Khalid, Deputy Director (STI) delivered a detailed presentation on PASTIC information services. Students and faculty members participated in this seminar.



Mr. Muhammad Khalid, Deputy Director (STI), Karachi Sub-Center delivers a presentation to students during PASTIC awareness seminar.

Chairman PSF Visits PASTIC Sub-Center, Faisalabad

Prof. Dr. Muhammad Ashraf, Chairman, PSF, visited PASTIC Sub-Center, Faisalabad on September 19, 2015. The Chairman directed the staff of the sub-center to provide maximum services to the entrepreneurs, teachers, students

and research scholars to promote science and technology in the country. Administrative matters were discussed during the meeting of Chairman with Mr. Muhammad Hussain, Deputy Director (STI), PASTIC Sub-Center, Faisalabad.



Meeting of Chairman, PSF, with Mr. Muhammad Hussain, Deputy Director (STI), PASTIC Sub-Center, Faisalabad

Meeting Attended

Prof. Dr. M. Akram Sheikh, Director General, PASTIC attended a meeting for Re-accreditation B.Sc. Computer Engineering of Mirpur University of Science and Technology (MUST), Mirpur as an Expert of Computer Engineering on September 1-2, 2015.

Forthcoming Activities/Events

- PASTIC Centre at Muzaffarabad is organizing a workshop on "Easy Way of Library Automation and Digitization" in collaboration with University of Azad Jammu & Kashmir at IT Lab, University of Azad Jammu & Kashmir, Muzaffarabad on October 2-4, 2015.

- PASTIC National Centre, Islamabad is organizing a three days Training Workshop on "Research Tools and Techniques" at PASTIC National Centre, Islamabad on October 7-9, 2015. The workshop would focus on research methodology and statistical tools for data analysis.

Orientation Session Arranged for New Students of QAU

PASTIC arranged an orientation programme for new students of Quaid-i-Azam University, Islamabad on September 22, 2015. Students from various departments attended this event, wherein, PASTIC officers briefed them about the information services of PASTIC and also gave demonstration for literature searching. Tips about initiating research and research



Students from Quaid-i-Azam University attend a demonstration about PASTIC Services

techniques were also given to the students. PASTIC membership forms were also got filled and the students were registered as free members.

PASTIC Information Services at Doorsteps of Universities, Institutions

PASTIC regularly organizes its information services stalls at universities and R&D institutions to provide its services at the doorsteps of researchers.

Peshawar: PASTIC Sub-Centre, Peshawar organized a Services Stall at University of Haripur, Haripur on September 02, 2015 during a one-day workshop on "Promotion of Bio-safety Measures for Researchers". Some 35 students got registered as PASTIC members and were provided bibliographic information.

Karachi: PASTIC Sub-Centre, Karachi, organized a Services Stall at NED University, Karachi on September 08, 2015. A large



Students visit the PASTIC Services Stall at Haripur University, Haripur

number of students, researchers, faculty members visited the Stall. PASTIC publications and forms for various services were distributed to them.

Faisalabad: PASTIC Sub-Centre, Faisalabad, organized a Services Stall at Agriculture University, Faisalabad on September 15-16, 2015. A large number of students and researchers visited the stall.



Students visit the PASTIC Services Stall at NED University, Karachi.



Students visited the PASTIC Services Stall at Agriculture University, Faisalabad

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