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From the Chairman



"Pakistan is proud of her youth, particularly the students, who are nation builders of tomorrow. They must fully equip themselves by discipline, education, and training for the arduous task lying ahead of them", Quaid -e-Azam Mohammad Ali Jinnah.

No doubt, education is important for youth of Pakistan and specifically looking at the future challenges, science education would be the best choice of the youth as it leads to the scientific and technological development of this country. Realizing the importance of the science, Quaid-e-Azam also emphasized on the Science education for emerging nations in his speech at first educational conference in 1947.

It is true that science education plays a vital role in national development of any country and latest development of science has changed dramatically, the lives of the people. These days, traditional indicators of development are correlated directly with the indicators of societal and inter-societal harmony as well as gains in education, science and technology. The economic giants of the globe have paid special and extra ordinary focus towards Science education, resultantly, they have become the

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PSF-Intel Collaboration Secretary MoST Distributes Prizes Among National Winners of Intel ISEF-2014



Secretary MoST Mr. Kamran Ali Qureshi addresses the closing ceremony of Intel International Science & Engineering Fair 2014.

PSF in collaboration with Intel Engineering Fair 2014 at Sir Education Pakistan arranged Syed Memorial Society, Intel National Science & Islamabad on January 26-29,



A group photo of Intel National Science Fair winners with Secretary MoST Mr. Kamran Ali Qureshi, PSF Chairman Dr. Khalil Ahmed Ibupoto and other officials.

2014. PSF, PASTIC and PMNH scientists participated as volunteer judges in the event. They evaluated many projects subject wise displayed during the fair.

The closing ceremony was held on January 29, 2014 and Mr. Kamran Ali Qureshi, Secretary, Ministry of Science and Technology (MoST) was the Chief Guest. Pakistan Science Foundation (PSF) Chairman Dr. Khalil Ahmed Ibupoto and some officers also attended the ceremony. The Secretary MoST along with the PSF Chairman and Intel Pakistan Country Manager Mr. Naveed Siraj

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From the Chairman

driving force of today's world economy. As Pakistan Science Foundation (PSF) has the mandate to create science awareness in the society at grassroots level. Hence, it is undertaking a number of programs for creating the science awareness at gross roots level which mainly include S&T Fairs, Travelling Expos, Intra Board Science Easy and Poster Competitions, Popular Science lectures, training sessions on Inquiry Based Science education etc. As a matter of fact, the population of youth in Pakistan is around 60% which is essential Human Resource Capital for the development of the nation and Science education is the only vehicle for mobilizing the Human Capital of the country and hence, the choice of science career for the youth will be very right step towards the betterment of the economic conditions of the masses as well as for real socio-economic development of the country.

Most of the population consider science as very difficult and dry subject and don't allow the children to take science as their future field of study. Even, some of us think science as anti-Islamic and unethical. PSF, within its limited resources always tried to bridge the gap between science and society. Our activities are aimed to infuse a stronger spirit of discovery in school children and to increase their interest in science and technology. Today the generation and exploitation of scientific knowledge have deeply connected to generate wealth and has become the paradigm of most of the interventions in the field of Science, Technology and Innovation.

Pakistan, being a transforming economy needs focused and sustainable efforts to motivate youth towards science education. PSF, on call of MoST proposed organization of S&T Pavilion at Expo Centre Lahore from the platform of Pakistan's largest Sports event "Punjab Youth Festival", which was accepted by MoST and consequently all S&T organizations are taking part in the event by arranging their stalls. Popular Science Lectures and presentations will also be organized during the Expo by the eminent scientists.

The major objective of all these exercises by PSF is to invite our youth towards science education, which is ultimate way for socio-economic development in future. Also a number of other programs to create science awareness among the youth are in pipeline for the year 2014.

distributed medals and certificates among winners of the event.

The MoST Secretary said PSF has been given the mandate to promote and popularize science in the country. On one side, it provides funds to the Scientists working in Universities and R&D organizations for the S&T research projects having bearing on our socio-economic needs under which so far more than 1,200 research projects have been provided funds, he said, adding, on the other side PSF is undertaking a number of programmes for creating science awareness at grassroots

level. He said these programmes include S&T Fairs and Travelling Expos, Intra Board Science Essay and Poster Competitions, Popular Science Lectures and Training Sessions on Inquiry Based Science Education etc.

The Secretary said we believe MoST and PSF in collaboration with agencies like Intel through innovative projects such as Intel Science Fairs can promote S&T research and cooperation in the country. Mr. Qureshi said we should focus on creating research based learning habits in students at an early age so that they can develop 21st century

skills and compete effectively in knowledge-based economy in future. The Secretary said I'm happy to know that some winner students will also participate in Intel International Science and Engineering Fair to be held in May 2014 in United States and they will surely promote an interest in science as well research in Math, Physics, Computer Science, Biology and Chemistry. The Chief Guest congratulated the winner students and organizers Intel and the team of PSF led by PSF Chairman Dr. Ibupoto, who made this event a memorable ceremony.

A Joint Venture of PSF and FDE

Winners of "Science and Mathematics Olympiad 2013 Awarded at PSF



PSF Chairman Dr. Khalil Ahmed Ibupoto presides over prize distribution ceremony of Science and Mathematics Olympiad 2013 at PSF. FDE Director General Ms. Shahnaz A. Riaz and others are also present.

The winners of "Science and Mathematics Olympiad-2013" were awarded Certificates and Prizes at Pakistan Science Foundation (PSF) Auditorium on January 28, 2014.

"Science and Mathematics Olympiad-2013" was a joint venture of PSF and Federal Directorate of Education (FDE).

PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto was the Chief Guest at the Prize distribution ceremony,

attended by students, teachers and scientists from different R&D organizations. FDE DG Dr. Shahnaz A. Riaz, PSF Member Finance Haider Zaman Khattak, FDE Director Training Mr. Abdul Waheed, PSF Chief Scientific Officer Dr. H.U. Khan and Principal Scientific Officer Dr. Naushaba Atta were also present on this occasion.

As part of science popularization activities PSF also liaises with FDE for

arranging Science Expos, Essay and Poster competitions. PSF is already undertaking these two important programs in collaboration with FDE. For further expansion of mutual activities PSF collaborated with FDE to conduct Science & Mathematics Olympiad 2013 for the students. The final competition and prize distribution ceremony was held on January 28, 2014 at PSF Auditorium. The Olympiad was aimed at inspiring and inculcating creative approach among the young students.

Prior to this, the competition was arranged at all the schools associated with FDE at primary level. All students of primary level participated in the competition. Two toppers from each school

Quote of the Month

"The human mind is not capable of grasping the Universe. We are like a little child entering a huge library. The walls are covered to the ceilings with books in many different tongues. The child knows that someone must have written these books. It does not know who or how. It does not understand the languages in which they are written. But the child notes a definite plan in the arrangement of the books---a mysterious order which it does not comprehend, but only dimly suspects."- Albert Einstein

were selected and PSF Chairman Prof. Dr. competition was held on Khalil Ahmed Ibupoto, sector level. From each FDE DG Dr. Shahnaz A. sector 10 top position- Riaz, FDE Director holders were selected for Training Mr. Abdul final competition held on Waheed, Ms. Farida January 28, 2014 at PSF and Yasmeeen, Principal, Mr. Riaz 60 students participated in it. Result of the said Scientific Officer Dr. H.U. competition was announced Khan addressed the prize on the same day. distribution ceremony.



A group photo of winner students with PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto and FDE DG Dr. Shahnaz A. Riaz.

PSF Participates in AFAQ Educational Festival

PSF arranged an awareness stall among the students were at Rawalpindi Arts Council for conducted. PSF Scientific two days on 29-30 January, Officers Mr. Riaz Ahmed, Mr. 2014 on the occasion of AFAQ Irfan Ahmed, and Mr. (Association for Academic Muhammad Rafiu participated Qualification) Educational as Judges for evaluating the Festival. projects. Mr. Tariq Chaudhary, During this festival variety of MNA attended the Festival as academic activities including Chief Guest and appreciated the science project competitions effort of PSF to promote the



Glimpses of PSF participation in AFAQ Educational Festival.

science activities. appreciation shields and At the end Judges received certificates.

7,008 Students Benefit from Science Caravan Exhibitions



Glimpses of Science Exhibitions at Gujar Khan and Nilore, Islamabad.

Popularization of science is an endeavor of PSF to image scientific ideas in such a way that everyone may understand the fundamental concepts and ideas and to achieve this objective, the Foundation organizes Science Caravan Exhibitions in different parts of the country all over the year. Some 7,008 students and 58 teachers from 24 schools benefitted from these Exhibitions arranged by different units of the Science Caravans in January 2014. The details are as under:

Federal Unit: The Federal Unit of Science Caravan arranged an Exhibition at MC Govt. Higher Secondary School, Gujar Khan on January 20-24, 2014. Over

1,950 students and teachers from six schools and institutes participated. The Unit arranged a two-day science exhibition at PAEC Model College, Nilore, Islamabad, on January 29-30, 2014, in which 1,400 students and 20 teachers participated in



Mr. Muzaffar Ali, ASO, Science Caravan Sukkur Unit, delivers a lecture to the students on scientific Models.

the exhibition.

Sukkur Unit: The Science Caravan Sindh Unit based in Sukkur arranged Science Caravan exhibition at Govt. (Boys) comprehensive higher secondary school Sukkur on January 23-31, 2014. Over

1,400 students, teachers and other staff from seven schools visited the science exhibition.

Tandojam Unit: The Tandojam Unit arranged Science Caravan Exhibition at Govt. Boys High School No. 2, Tandojam on January 1-29, 2014. About 2,258 students and 58 teachers from 10 schools visited the exhibition.

Punjab Unit: The Punjab Unit arranged a 2-day Science Exhibition at Bloomfield Hall School, Faisalabad, on January 23-24, 2014 and 450 students and teachers visited the



Mr. Muhammad Yahya, Planetarium Assistant, Tandojam Unit, briefs the students about solar system inside the planetarium.

DG Khan, Bahawalpur & Multan BISEs Hold 3rd Intra Board Science Essay & Poster Competitions

Under the PSF Science Popularization Programme, Dera Ghazi Khan, Bahawalpur and Multan Boards of Intermediate and Secondary Education (BISE) conducted the 3rd Intra Board Science Essay and Poster Competitions on January 16, 17 and 25, 2014 respectively. PSF Planetarium Assistants Mr. Ammar Umer and Mr. Muhammad Zaheer Asgher represented the PSF in these events. The National Winners will be awarded prizes in a prestigious ceremony at PSF.



Intra Board Poster Competition at BISE Multan and BISE Bahawalpur

Participation in UNESCO Event RAHA: At the Forefront of FATA's Uplift



Mr Abdul Rauf, SSO / Caravan Coordinator, PSF, briefs audience on PSF activities during a ceremony at Serena hotel.

PSF in collaboration with Planetarium and Film Shows, UNESCO organized Science Speech and Quiz Competitions, Popularization activities for the Distribution of Scientific Literature, Establishment of Science Clubs in selected areas in Khyber Agency. Science Caravan schools and Teacher Training Sessions on Inquiry Based activities at Govt. Higher Secondary School, Jamrud on April 15-30, 2013. The main activities were also carried out by UN agencies and some other Caravan Exhibitions, organizations.

For the acknowledgment and participated on this occasion obtaining feedback of the said and displayed their projects. activity, UNESCO arranged a Science Caravan Exhibition ceremony at Serena hotel was also arranged. Mr. Abdul Rauf, SSO/Coordinator 2014. Heads of UN agencies, Caravan briefed the audience about activities carried out in Pakistan, H.E Mr. Hiroshi Khyber Agency. A student Inomata and Representative from Govt. High School from FATA Directorate, Mr Abdul Rauf, SSO / Caravan Coordinator, PSF and some other officials also attended the visited PSF Caravan event. Students from Jamrud Exhibition and appreciated the along with teachers also efforts of PSF.



Mr. Abdul Rauf, SSO/Coordinator Caravan briefs visitors about activities carried out in Khyber Agency.

PSF, PINSAT Jointly Organize Conference on Nanotechnology



PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto attends the Conference on Nanotechnology as the Guest of Honor.

PSF and Preston Institute of Nano undergraduate teaching in Science and Technology Pakistan. He said PINSAT (PINSAT) jointly organized a during the past the past years Conference titled "Recent organized a number of Advances in Nanotechnology" at awareness seminars for various PINSAT, Preston University sectors of society, like Islamabad on January 6, 2014. PSF Chambers of commerce and Chairman Prof Dr. Khalil Ahmed Industry of Sialkot and Ibupoto was the Guest of Honor at Faisalabad, the Universities and the inaugural ceremony. Colleges..

Preston University's Chancellor Dr Ibupoto appreciated the Dr. Abdul Basit said the PINSAT efforts to create University is the first one in the awareness in the field of country to initiate this Nanotechnology and

acknowledged that the Institute to conduct this conference. the inaugural session and informative papers on the is striving hard to make the Dr Muhammad Aslam, Rector congratulated the organizers to subject and highlighted the nanotechnology awareness at all Pakistan Institute of hold this conference. important aspects of the subject. levels of the society. He also Engineering and Applied During the two technical At the end the Chief Guest Dr admired the Preston University's Sciences (PIEAS) also sessions well known scientists Muhammad Aslam distributed Chancellor for support provided addressed the audience during and technical experts read very certificates among the speakers.

MoST Designates PSF as Focal Point for Punjab Youth Festival

In a meeting headed by the Additional Secretary MoST, PSF was designated as Focal Point for S&T organizations regarding arrangements of S&T Pavilion in the Punjab Youth Festival (PYF) to be held on February 26 to March 2 in Lahore. In series of meetings organized by PSF it was decided that organizations working under Ministry of Science and Technology (MoST) will actively participate in PYF 2013-14 to take it as an opportunity for

showcasing the strength of S&T organizations in state of the art manner. PSF coordinated with Punjab Sports Board and MoST organizations regarding arrangements of PYF. To finalize arrangements of S&T Pavilion in the Festival a meeting was held at MoST on January 27. Federal Secretary for S&T Mr. Kamran Ali Qureshi presided over the meeting, which decided that marketable products of various S&T organizations

would be displayed and marketed properly during the Festival. PSF, NUST, CIIT and other organizations will arrange online interaction of the students at their regional campuses with the dignitaries. MoST Youth Science Forum will also be organized by arranging lecture, presentations and visits of the students to the labs of S&T organizations. PSF, PMNH and PASTIC will also set their stalls to highlight their achievements.

Tributes Paid to PSF ex-Chairman Late Dr. Shahzad A. Mufti

Dr. Shahzad A. Mufti, former Chairman, PSF, left this world on December 30, 2013. PSF arranged a Condolence Reference in his memory on January 3, 2014. His sons Mr. Shehryar A. Mufti and Mr. Shahan A. Mufti, officers and officials from PSF, PASTIC and PMNH attended the reference. PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto, former Chairmen Dr. M.D. Shami and Dr. N. M. Butt as well as renowned scientist Dr. Anwar Nasim, PSF Member Finance Mr. Haider Zaman

Khattak, PSF Chief Scientific Officer Dr. H.U. Khan and some other colleagues and students of Dr. Mufti spoke on this occasion. They paid glowing tributes to the services of Dr. Mufti for the promotion and development of science in the country. PSF Chairman Prof. Dr. Ibupoto said Dr. Mufti was not any ordinary man and the people like him are born very rare to this century. The other speakers highlighted different aspects of Dr. Mufti's lively personality. They said Dr. Mufti was not



PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto presides over the Condolence Reference in memory of the Late Prof. Dr. Shahzad A. Mufti, former Chairman PSF, at the PSF Auditorium



PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto, PSF former Chairman Dr. M.D. Shami, Pakistan Academy of Sciences Secretary General Dr. Anwar Nasim, PSF Member Finance Mr. Haider Zaman Khattak and Dr. S.A Mufti's son Mr. Shahan A. Mufti address at the Condolence Reference in memory of the Late Prof. Dr. Shahzad A. Mufti, former Chairman PSF, at the PSF Auditorium.

only a good scientist but also a good administrator and kind human being always ready to help his colleagues and students. It is pertinent to mention that Dr. Mufti also served as Professor in Department of Biology, University of the Punjab, Director General PMNH and Advisor COMSATS. Allah Almighty may rest his soul in eternal peace and grant courage and fortitude to his family to bear this irreparable loss (Ameen).

Important Meetings/Events Attended

PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto attended following important meetings/events in January 2014:

- Meeting of DDWP at MoST on Jan. 01.
- Meeting on finalization of PMNH PC-I at PSF on Jan. 02.
- Meeting with DG Sports, Lahore, regarding the Punjab Youth Festival on Jan. 04.
- Meeting with the Secretary, MoST and Presentation on PSF participation in the Punjab Youth Festival on Jan. 07.
- Meeting of the National Assembly Standing Committee on Science and Technology in the Committee Room No. 7,

4th Floor, Parliament House, Islamabad, on Jan. 07

- Meeting with the Secretary, MoST on Jan. 14 in connection with NA Standing Committee Visit to PMNH.
- Meeting of Technical Committee on NSLP on January 16.
- Launching Ceremony of National Proficiency Testing Scheme at Serena Hotel, organized by MoST on Jan. 16.
- MoU signing and launching ceremony of "Norwegian Centre of Excellence for Petroleum Studies" at NED University of Engineering & Technology at Kehkashan Hall, Serena Hotel, Islamabad on Jan. 16.

- Meeting with European Union to discuss joint collaborative activities on Jan. 17.
- Meeting with Director General Sports, Punjab Sports Board, regarding Punjab Youth Festival 2014 at National Hockey Stadium, Lahore on Jan. 17.
- Presentation to the Minister for S&T regarding the Punjab Youth Festival at MoST on Jan. 27.
- PSF Travel Grants Award Committee Meeting at PSF on Jan. 30.
- Meeting of the Board of Governors of National Institute of Psychology, Centre of Excellence, Quaid-e-Azam University, Islamabad, on Jan. 31.

Pakistan Museum of Natural History (PMNH)

Editor: Dr. Saleem Ahmad, Curator

Netherlands Delegation Visits PMNH

A 2-member Netherlands Rajpar and scientists from delegation comprising Mr. the science divisions Marth Rurda and Mr. Menh received the guests. The Moelauds who were in delegation visited different Pakistan to attend the Board display galleries of the of Governors meeting at museum and took keen National Testing Service interest in various exhibits. (NTS) Pakistan, visited They appreciated the PMNH PMNH on January 18, 2014. educational and research They were accompanied by activities to make general senior officers form NTS, public, especially the Islamabad. Muhammad students, aware of our natural Akhtar Javed, Director resources and their General, PMNH, Director importance and sustainable PSD Mr. Abdul Rahim use. After the visit they held



The Netherlands delegation and senior officers from NTS-Pakistan meet PMNH DG. formal discussion with the source of informal education Director General, PMNH. and wished that these activities might be enhanced They said that these displays are unique informative at a larger level in future.

Museum Educates Public on Natural History through Media



Glimpses of PTV Show on PMNH.

PMNH Directors believe in using media for educating students and general public on natural history and popularize science at grassroots level.

As a part of this activity, PTV in its "Roshan Pakistan" show aired a programme on PMNH of which scientists are not only engaged in research on natural history but also busy in preserving and documenting beauty and biodiversity of nature in Pakistan. The programme recorded at Museum was aired on January 18, 2014.

The Programme was hosted by Taimur Shamil and its theme was "Scientific Culture Ka Farogh-Waqt Ki Ahm

Zaroorat" (Promotion of Scientific Culture –Need of the Hour). The Programme was based on interviews of PSF Chairman Dr. Khalil Ahmed Ibupoto and PMNH Directors as well as glimpses of the displays and student groups visiting the Museum. During the show the PSF Chairman highlighted the statutory functions and achievements of the Foundation and its auxiliary organizations PMNH and PASTIC.

Dr. Ibupoto said PMNH besides research on natural history is also busy in imparting informal education through interesting displays. Highlighting the importance of Museums the

Chairman said Botanical Sciences Division of the Museum has huge herbarium where the plant specimens have been preserved after their identification and classification and it's a valuable source of information for students and researchers. Zoological Sciences Division's Director Dr. Muhammad Rafique in his interview highlighted functions of his division and achievements of its seven sections in addition to research and educational value of the specimens collected by the Museum Zoologists from different parts of the country. Earth Sciences Division's Director Dr. Nayyar Iqbal in the programme spoke on the working of the Museum Geologists, huge collection by them and its industrial and educational importance. PMNH Public Services Division Director Mr. Abdul Rahim Rajpar talked on display development and visits of the students to the Museum for education through entertainment.

PMNH Scientist Participates in Health Awareness Campaign



Dr. Ismail Bhatti deliver lecture during the health awareness campaign.

Awareness campaigns on the importance of hand washing to protect schoolchildren from diseases and adopt healthy habits were held in Bright Star Model School, National NIH Colony, Islamabad, and Fauji Foundation Model School, Khajoola, Chakwal district. Over 150 students of 4th to 8th class boys and girls attended the campaign.

Dr. Muhammad Ismail Bhatti from Pakistan Museum of Natural History (PMNH) participated as resource person in the activity. The activity was organized by National IPM Programme, National Agriculture Research Council (NARC) Islamabad, SOFT-Pakistan in collaboration with FAO Pakistan Chapter.

Students Keep on Flocking to PMNH

A large number of students of various schools, colleges and universities of Punjab and KPK visited the display galleries of PMNH. These included Global School System Islamabad, United Montessori and Girls Higher Secondary School Attock, Islamic University Islamabad, Defense Foundation School System Rawalpindi, Model School Gujranwala, Iqra Education Academy Hangu, Punjab College Faisalabad, The City School Kharian, Abdul Wali Khan University Mardan, The Educator Attock, Lahore Grammar School Islamabad, Collage Mardan, Khyber College Nowshehra, PAEC College Mianwali, Fauji Foundation School Rawalpindi, etc. The number of students visiting PMNH Display Centre in January stood at 3,377. Over 2,208 general public and four foreigners also visited the PMNH display galleries.



A group of college students visiting PMNH

Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Syed Aftab Hussain Shah

PASTIC Building Up National Capability by Disseminating Scientific Information

The advancement and application of science and technology is dependent on the building up of national capability for acquiring, processing and disseminating scientific and technical information. In order to achieve this objective PASTIC organizes services stalls in different parts of the country throughout the year. In January 2014 PASTIC sub centers organized these stalls in following cities:

Karachi: PASTIC Sub Centre, Karachi organized a Two-day

PASTIC S&T services stall during five days SAARC workshop on DSpace at Mehran University of Engineering and Technology (MUET), Jamshoro on December 30-31, 2013. Librarians from SAARC countries visited PASTIC stall and PASTIC services brochures were distributed among them. Participants appreciated the services of PASTIC.

PASTIC Sub Centre, Karachi also organized a one-day PASTIC S&T Services stall at University of Karachi on January 23, 2014 during 03-day International Conference of Pakistan



PASTIC S&T Services Stall at University of Karachi



PASTIC S&T Services Stall at MUET, Jamshoro during SAARC DSpace

Phytopathological Society. Researchers from different departments of University of Karachi and foreign participants visited PASTIC stall.

Faisalabad: PASTIC Sub-Centre, Faisalabad organized a PASTIC Services Stall at Faculty of Agriculture, University of Agriculture Faisalabad (UAF), on January 8-9, 2014. A number of researchers visited the stall and submitted their topics for data and required information was emailed to them.

PASTIC Sub-Centre, Faisalabad also organized its

Information Services Stall at Faculty of Veterinary Science, UAF, on January 22, 2014. The researchers were provided their requested data later by email. Another stall was organized by this Centre on January 28, 2014 at National Institute of Food Science & Technology, UAF. The researchers were briefed about their queries and data was provided to them.



Glimpses of PASTIC Services Stall at Faisalabad



Glimpse of PASTIC Services Stall at Faisalabad.

PASTIC DG Attends BUIITEMS Board of Studies Meeting

PASTIC Director General Prof. Dr. Muhammad Akram Shaikh attended Board of Studies meeting of Faculty of Information & Communication Technology, Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS), Quetta on January 9-10, 2014. The agenda

of the meeting was to finalize the Bachelors and Masters Curriculum of Computer and Software Engineering programmes. During his visit the PASTIC DG also delivered a talk on "Web Searching Techniques", which was attended by a large number of faculty members and students.



PASTIC Director General Prof. Dr. Muhammad Akram Shaikh delivers a talk on "Web Searching Techniques" at BUIITEMS, Quetta.



SAARC-MUET workshop on DSpace

PASTIC DG Delivers Talk on “Importance & Issues of Digital Libraries”

PASTIC Director General (DG) Prof. Dr. Muhammad Akram Shaikh delivered a special talk on the “Importance & Issues of Digital Libraries” at the closing ceremony of 5-day DSpace workshop jointly organized by Mehran University of Engineering & Technology (MUET) Jamshoro and SAARC Documentation Centre (SDC) on December 30 to January 03, 2014 at MUET, Jamshoro.

About 25 participants from all SAARC countries participated

interaction of the participants enabling them to share their from SAARC countries experiences.



(From R to L): SDC Deputy Director Mrs. Kesang Dechen, MUET Vice-Chancellor Dr. M. Aslam Uqaili, MUET Pro-Vice Chancellor Engr. G.S.Kandhar, PASTIC DG Dr. Muhammad Akram Shaikh and MUET Dean & Library Committee Chairman Dr. Pir Roshan-ud-Din Shah at closing ceremony of the workshop.



SDC Deputy Director Mrs. Kesang Dechen presents SAARC shield to PASTIC DG Dr. Muhammad Akram Shaikh.



A group photo of participants of 5-day SAARC-MUET Workshop on DSpace.

Important Meetings/Trainings/Ceremonies Attended:

- PASTIC DG Prof. Dr. Muhammad Akram Shaikh participated in launching ceremony of National Proficiency Testing Scheme organized by Ministry of Science & Technology on January 16, 2014 at Serena Hotel, Islamabad.
- PASTIC DG Prof. Dr. Muhammad Akram Shaikh participated in Award Distribution Ceremony of Quiz for Science 2013, jointly organized by National Digital Library Program, HEC and Elsevier, one of the leading publishers in the world on January 28, 2014.
- PASTIC Director Ms. Nageen Ainuddin attended the First meeting of ORIC Forum Rawalpindi/Islamabad Region on January 1, 2014 at CIIT, Islamabad. The meeting focused on devising future course of action and discussed issues related

- to IPR management including IPR capacity building for putting forward to WIPO/IPO/HEC for their support.
- PASTIC Sr. Scientific Information Officer Mr. Muhammad Ayub Dogar and PASTIC Steno-typist Mr. Umar Daraz attended a training Workshop entitled “Library Management in Virtual Environment” at Akhtar Hameed Khan National Centre for Rural Development (AKH,NCRD), Park Road, Chak Shahzad, Islamabad on January, 13-17, 2014.
- Ms. Afsheen Tariq Raja, Assistant Scientific Information Officer, PASTIC Sub Centre, Karachi attended a Workshop on DSpace on December 30 2013 to January 3, 2014. The workshop was organized by SAARC Documentation Centre, New Delhi, India at MUET, Jamshoro.

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Layout: Abdul Rasool, PMNH