### Patron

**Dr. Khalil Ahmed Ibupoto** Chairman Pakistan Science Foundation

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# **PSF NEWS** July 2014

Monthly Newsletter of Pakistan Science Foundation

Vol. 12 No. 7

## From the Chairman





In Many verses, The Holy Quran invites Human beings to study all aspects of nature and the discovery of the mysteries of creation, the learning of which is in the interest of humanity and brings felicity to human society. And we have to obtain scientific facts through our efforts. One of the most important things that we learn from the Ouran, in relation to science, is its unique world-view and epistemology. And the discovery of nature can all be done using human senses and intellect. In this era of globalization, Continued on page 2



Mr. Zahid Hamid, Federal Minister for S&T at the MoU signing ceremony, Dr. Khalil Ahmed Ibupoto, Chairman, PSF and H.E. Mr. Philippe Thiebaud, Ambassador of France to Pakistan signing MoU - Dr. Muhammad Yahya Khawaja, Member, Planning Commission (S&T and IT); Mr. Haider Zaman Khattak, Secretary, PSF; Dr. Muhammad Khan Leghari, D.G. PMNH; Mr. Tahir Maqsood Khan, Additional Secretary, MoST; Mr. Chaouki Boutharouite, French Attaché for Scientific Cooperation; Dr. M. Akram Shaikh, D.G. PASTIC; Dr. S. Azhar Hasan, Former, D.G., PMNH; and Dr. Muhammad Ashraf, Chairman, PCRWR are also present Pakistan Museum of Natural joint projects, exchange of of Honour of the ceremony. History (PMNH), Islamabad techniques, publications, PSF Chairman, Prof. Dr. and National Museum of specimens, information and Khalil Ahmed Ibupoto; Natural History, Paris visits of researchers for Additional Secretary MoST, (Muséum national development of museology Mr. Tahir Maqsood Khan; d'histoirenaturelle-MNHN) and natural history sciences PMNH Director General, Dr. inked Memorandum of are included in the MoU. Muhammad Khan Leghari; Understanding (MoU) at Federal Minister for Science Chairman, PCRWR Dr. Pakistan Science Foundation and Technology, Mr. Zahid Muhammad Ashraf and large on July 23, 2014 for Hamid graced the occasion as number of high collaborative research and the Chief Guest and H.E. officials/Heads of S&T science promotion. A Ambassador of France to organizations were also

number of activities Pakistan, Mr. Philippe present. Mr. Ali Muhammad



#### From the Chairman

sharing of ideas and resources has got special importance, it is not possible that a scientist or researcher can undertake a productive activity or generate new knowledge keeping himself seized in his laboratory, so, PSF always try to join hands together with International Scientific organizations to enhance the research capabilities of its Pakistani scientists by using the expertise of these organization

PSF's Museums of Natural History, which is the country's only museum conducting scientific research on different aspects of natural antiquity, is playing a key role towards establishing effective and efficient linkages between scientists and society/young generation for promotion of natural history.

The MoU signed between National Museum of Natural History and PMNH will lead towards capacity building and national development through mutual collaborative research activities in the field of Natural History and Museology and will strengthen the friendly bonds between the two countries.



PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto and French Ambassador Mr. Philippe THIEBAUD exchanging the MoU documents after signing. Federal Minister for Science and Technology Mr. Zahid Hamid is also present

the ceremony.

as witnesses.

the signing ceremony. The institutions, which has been Pakistan.

Assembly Standing The Federal Minister for France for his support for Committee on Science and S&T highlighted various promotion of science in Technology, Executive steps taken by the present Pakistan. He said, "the MoU Director & Director, Pakistan Government for promotion will lead towards national Institute of Parliamentary of Science in the country. He development and capacity Affairs also participated in informed that the building of scientists through Government had realized the mutual collaborative On behalf of PSF/PMNH, importance of Science for research activities in the field Prof. Khalil Ahmed Ibupoto National development and of Natural Sciences and signed the MoU, whereas the had paid special focus Museology". He added that Director General MNHN, towards socio economic the platform created by this Mr. Thomas Grenon could development through MoU would have enhanced not come and provided the Science and Technology. He the inter-change of ideas of signed and stamped copies of appreciated the collaboration research between the the MoU (two in original) for between PSF and French scientists of France and

Federal Minister and French increased manifold during He believed that the platform Ambassador signed the MoU last few years. The Minister created by this MoU will thanked H.E. Ambassador of further enhance the inter-



Federal Minister for Science and Technology Mr. Zahid Hamid, PSF ChairmanProf. Dr. Khalil Ahmed Ibupoto, French Ambassador Mr. Philippe THIEBAUD addressing the ceremony

#### Quote of the Month

The increase of scientific knowledge lies not only in the occasional milestones of science, but in the efforts of the very large body of men who with love and devotion observe and study nature.

-Polykarp Kusch

change of ideas of research between the scientists of France and Pakistan. Hand in hand, "I am sure we will be able to create synergy and sparkle off innovative ideas in Museology, sowing the seeds that one day will bring forth long-term benefits to both places", he added. He also appreciated the efforts of PSF for arranging such activities.

H.E. Ambassador of France to Pakistan said, "This is an important collaboration to create a dynamic research between both institutes and I am glad that during the last few years, several joint projects of French Government on education and travelling exhibitions have been completed with the support of PSF and MoST in different areas of Pakistan". The Ambassador said this MoU would have a long lasting impact in promoting and enhancing scientific and cultural exchange between the two countries.

"The MoU will help inproviding us with a committed approach to work more closely together, which will lead us to our common that under patronage of PSF, be available on the map goal, the pursuit of the PMNH was established in internationalization of 1976 and since then it was education", he added.

PSF Chairman Dr. Ibupoto said the MoU signing marked the joint efforts of the



Group Photo of PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto, French Ambassador H.E. Mr. Philippe THIEBAUD and PSF Secretary, Mr. Haider Zaman Khattak with Federal Minister for S&T Mr. Zahid Hamid

levels since its document the distribution of establishment. He informed various species, which would actively working for the on. PMNH is an Associate reference collection of flora member of Global & fauna, rocks, fossils and minerals and conservation of Facility (GBIF) and a governments of both Biodiversity of our country. countries in strengthening "It has collected over co-operation in the fields of 600,000 natural history headded. science and technology. He specimens which are PMNH has four principal said PSF was working for the preserved in its repositories, divisions, out of which three promotion of scientific and which are being digitized divisions namely Botanical technological research by now", he said. Further he Sciences, Zoological providing financial and added that PMNH had Sciences and Earth Sciences popularization of science established Geographical Divisions are actively research and three diffusion

individual and institutional Information System (GIS) to according to their geographical reference later **Biodiversity** Information member of International Council of Museums ICOM,

engaged in the collection, identification and research activities pertaining to plants, animals and mineral resources of Pakistan respectively. Fourth one, the Public Services Division is responsible for mass education and popularization of natural history through various displays, exhibits and dioramas. There are more than 30 scientists and designers who are engaged in research primarily pertaining to the biodiversity of Pakistan with special reference to environment and natural habitat degradation. Highly productive collaboration research programmes with many foreign organizations of other countries including USA, UK, Japan, Italy, France, and Switzerland.

The National Museum of Natural History, Paris (Muséum national d'histoirenaturelle-MNHN), is the national museum of natural history of France. The main museum is located in Paris, France, on the left bank of the River Seine at 57 rue Cuvier, 75231 – Paris. It was founded in 1793 during the French Revolution, but was established earlier in 1635. The museum now comprises 14 sites throughout France, with four in Paris, including the original location at the royal botanical garden, the Jardin des Plantes, which remains one of the seven departments of MNHN. The museum has as its mission both research (fundamental and applied) and public diffusion of knowledge. It is organized into seven departments. are: are: Evolution and and Molecular Diversity Populations • Ecology and Biodiversity delivers a master's degree. Management • History of Earth Societies, and • Prehistory The diffusion departments Pakistan and discovered Education in Pakistan and

- des Plantes
- (Musée de l'Homme)

fossils from Balochistan with Centre Sciences. The research departments • The Galleries of the *Jardin* Keeping in view, the similar Orleans for arranging and cotype of objectives and production of traveling • Classification and • Botanical Parks and Zoos, activities of the two expos. Under these MoU's Museums, Scientists from number of collaborative • Regulation, Development, • The Museum of Man the both sides paved the way activities like training for signing of MoU between workshops and participation • Aquatic Environments and The museum also developed PMNH and MNHN to in International seminars of higher education, and now deepen the collaborative Lamain a la pate Foundation, activities. being organized at Paris each The voyage of research and It is pertinent to mention here year. The present MoU with science promotion between that PSF has already signed National Natural History • Men, Nature, and PSF/PMNH and MNHN was MoUs with Paris Academy of Museum, Paris is the third started in early 1990s when, Sciences for promotion of one, which has been signed French Scientists visited Inquiry Based Science with a French organization.

#### Pakistani students shining as YSF **Stars in London**

Under the National STI Policy 2012, it has been emphasized that the Motivational programmes for students to engage in creative activities should be initiated and strengthened at the national level. PSF, being the prime organization for promotion and popularization of science, realized its role for creating science awareness in the



Dr. Muhmaamad Yahya Khwaja, Dr. Anwar Nasim and Ms. Nishat Riaz interacting with the students, Dr. H.U. Khan, CSO, PSF, Dr. Naushaba Atta, PSO, PSF and Mr. Abdul Rauf SSO/Coordnator LIYSF are also present

country and took an two weeks Youth Science Commission, Ms. Nishat experience with their fellows website and invited off/orientation session was and Scientists also provided accordingly. applications for the eligible arranged on 22 July, 2014 at useful information to the Dr. Anwar Nasim, during his students. Written Test and PSF. In the evening, Iftar students and shared their talk with students stressed Interview was arranged for dinner was also arranged, in experience with the students. that soft image of Pakistan selection of students for their which Dr. Anwar Nasim, Dr. Dr. Muhammad Yahya said, should be created in the participation in LIYSF-2014 N.M. Butt and Dr. Khalil "This is a great opportunity LIYSF-2014 and after being held on 23 July to 6 Ahmed provided guidance for Pakistani students to participation in the Forum, August, 2014 at Imperial and tips to the students for interact with the young minds the student must have College London. A panel of proper representation of the from all over the world under played their role to conduct eminent Scientists selected homeland in UK. In the one roof and the forum is the and organize such events in four students namely, Mr. orientation session, Dr. best place to promote Pakistan. He also shared his Abdur Rahman, Mr. Waleed Muhammad Yahya Pakistani culture and experiences of foreign visits Ahmed, Ms. Itrah Sohail, Khawaja, Member on S&T values". He also urged the and participation in the Ms. Maimoonah Asif for this and IT, Planning students to share their International events with the

important initiative in 2012 Forum. Dr. H.U. Khan, CSO, Riaz and Hamza Saleem and asked them to find the and selected 4 students for PSF accompanied the from British Council ways to enhance their skills participation in "London students as Chaperon. These interacted with the students in basic sciences in addition International Youth Science students along with their and discussed important to medical and engineering. Forum-LIYSF". This year, Chaperon left for London on aspects to be taken care He suggested that science for the third time PSF 23 July2014. Prior to their during their participation in teachers training programme announced the activity at its departure, a send-LIYSF-2014. PSF Officers should be strengthened



Students selected for LIYSF-2014 expressing their views during send-off session at PSF students and emphasized on opportunity to show their gaining maximum benefit talent at International level from that activity. and appreciated transparency Miss Nishat suggested to in selection criteria and PSF increase the number of efforts for creating science participants so that students awareness among the young from all over the Pakistan generation. All the students could have participated in the were confident about their event. She assured that best possible performance in British Council would the London International support the young students in Youth Science Forum.

all their science promotion At the end, the Chairman activities not only at thanked all the scientists and International level but also at wished the students and PSF National level. Chaperon a happy and All the students thanked PSF fruitful journey and safe back on giving them the home.

## **PSF-NSLP** Technical Committee

20<sup>th</sup> meeting of the Technical Committee of NSLP was held on July 08, 2014 presided over by Chairman PSF. Nineteen new projects and two progress reports of ongoing projects were presented for discussion and recommendations. Committee thoroughly reviewed the new projects and recommended technically sound projects for funding while noted all annual reports as satisfactory.



PSF-NSLP Technical Committee's meeting headed by Prof. Dr. Khalil Ahmed Ibupoto. Chairman, PSF

# **PSF** represents in **NA Standing Committee meeting**

achievements to the National expenditure. Assembly Standing The Federal Secretary also Secretary, Mr. Tahir the general public. participated in the meeting. forum about shortage of m a n p o w e r budget which is gradually achievements.

As a procedural matter, the causing less allocation Foundation gave towards statutory functions presentation about its due to continuous increase in performance and salaries and other related

Committee on S&T headed intervened and explained the by Ch. Tarig Bashir Cheema, fact that overall budget MNA on 14 July at NA allocation of PSF needs to Secretariat. The Federal be enhanced. He added that Minister Mr. Zahid Hamid, the research activities Secretary Mr. Kamran Ali require a long time to transfer Qureshi, Additional their outcomes & benefits to

Magsood Khan and other The NA Standing Committee senior officials from MoST/ urged PSF to give preference PSF and 14 MNAs to the rural areas for science popularization activities and The Chairman PSF Dr. Khalil asked the MoST to move a Ahmed Ibupoto gave brief summary for enhancement of presentation of the activities PSF budget. The Committee undertaken by the added that a Science Foundation. Afterwards, Centre/Museum may be detailed deliberations were established at Jhang/Chinote made about research support The Chairman of the and science popularization Committee Mr. Tariq Bashir programs including funding Cheema also constituted a of research projects, science sub-committee to review the caravans and traveling expos. PSF activities and The Chairman informed the justifications of its a n d

## **Important Meetings/Events Attended:**

Prof. Dr. Khalil Ahmed Ibupoto, Chairman PSF attended a number of important meetings and events during the Month of July-2014 including the following:

• Headed PSF Team and presented PSF activities and performance in the Meeting of National Assembly Standing Committee on Science & Technology on 14 July.

• 4th Meeting of Sub-Committee-III of PAC at Parliament House at Islamabad on 3 July.

• Meeting in connection with "Establishment of Technology Park" at MoST Islamabad on 17 July under the Chairmanship of Minister S&T.

• PARC Departmental Selection Board Meeting in the Committee Room of Ministry of National Food & Security, Islamabad on 22 July.

# **Pakistan Museum of Natural History (PMNH)**

Editor: Dr. Saleem Ahmad, Curator

# **PTV telecasted special Documentary on PMNH**

Electronic and print media also interacts with PSF for wide coverage of its activities for awareness of scientific concepts among the masses. In this regard, PTV team visited PMNH on 15 July and recorded documentary about itsgalleries, diorama and natural history specimens to be telecasted under its Programme "Youth Voice". The team interviewed many visitors and students from Arid Agriculture University, National Centre for Physics and Federal Medical College and recorded their comments about PMNH and benefits of their visit to its various galleries. Prof. Dr. Khalil Ahmed Ibupoto, Chairman PSF gave the brief about PSF and PMNH programs and activities. The program was aired on 21.07.2014 on PTV News and highlighted Museum's role in popularization of science among the young generation.



Prof. Dr. Khalil Ahmed Ibupoto, Chairman, Pakistan Science Foundation giving interview to PTV team at PMNH.



Students of Federal Medical College and Arid Agriculture University being interviewed by PTV team at PMNH Display Centre

## **New Assignments and responsibilities**

Dr. Saleem Ahmad, Curator, Botanical Sciences -PMNH since February, 1985.

Dr. Ghazala Shaheen, Assistant Professor, Division, has been assigned the current charge of Director, Department of Botany, University of Balochistan, has Public Services Division by Pakistan Science Foundation, joined as Curator, Earth Sciences Division at PMNH w.e.f. w.e.f. 4th July, 2014. Dr. Saleem has been serving the 1st July. She has 24 years of experience of research and teaching at University and college level.

# **PMNH** Displays attracted large number of visitors during Eid Holidays

The Display Centre of to the visitors during the of the Museum. The visitors towns and were highly PMNH remained opened holidays. PMNH officers expressed their thanks to impressed by huge natural from 0800hrs to 2000hrs for and staff members PSF and PMNH for history repository of the public from the second facilitated thousands of providing such important Pakistan. A large number of day of Eid-ul-Fitr. Special men, women, students and scientific information and families and media arrangements were made to youngsters and briefed them non-formal education. personnel also visited the provide entertainment as about display halls, galleries Many of the visitors were display galleries showed well as informal education and natural history dioramas coming from other cities and keen interest in PMNH.



Visitors watching a display diorama in PMNH Display Centre during the Eid Holidays

Children wearing colourful Eid dresses posing for photography at PMNH premises

determined by XRD. The mineral composition of rock

## <u> Training Attended</u>

Mr. Khalid Ahmed Mirani and Mr. AshfaqSolangi Research permeability of rocks. They received training on X-Ray Associates, Earth Sciences Division, received one month Diffractometer (XRD), X-Ray Fluorescence training on Advanced Equipment at Centre for Applied and Spectrometer (XRF) and Scanning Electronic Microscope Pure Geology University of Sindh, Jamshoro from 16th (SEM). Atomic structure of rock samples have been June 15th July.

The main purpose of this training was to find out the samples have been determined by XRF. Highly magnified, geochemical composition and characteristics of rock detailed study of rock surface features was carried out surfaces for provenance, digenesis and porosity or through SEM.

# **Pakistan Scientific & Technological Information Centre (PASTIC)**

Editor: Ms. Rahila Khuram

# **PASTIC Acquires On-Line International Databases**

Strengthening of Information acquired access to three on- regularly in coming years. Resources is vital for line International Databases The first database "Wilson societies and specialized enhancing the information such as Wilson Applied Applied Science & subject periodicals, as well as dissemination capacity and Science & Technology Full Technology Full Text" special issues such as buyer's fulfilling the information Text, Wilson Social Science contains full text articles guides, directories and needs of Information Users. Full Text and Biological & from various periodicals conference proceedings. As a result of sustaining Agricultural Index Plus. since January 1997. The The other database "Wilson efforts for developing and Access to these databases database covers periodicals, Social Sciences Full Text" strengthening Information will be available for one year including trade and industrial covers the latest concepts, Resources, PASTIC has which will be renewed publications, journals issued trends, opinion, theories, and

by professional and technical

methods from both applied contains high quality database "Biological & indexing of periodicals in the and theoretical aspects of the indexing of periodicals as far Agricultural Index Plus" biological and agricultural social sciences. This database back as 1983. The third provides comprehensive sciences.

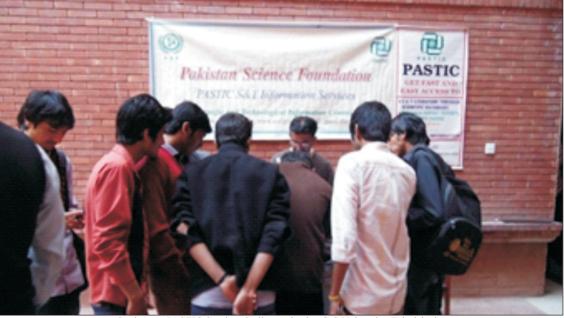
## Seminars and PASTIC S&T Information Services Stalls organized

universities, conferences and were organized in Institute, Faisalabad. country regularly to create Chamber of Commerce & 2226 S&T documents in were supplied to 5175 users. awareness aboutPASTIC S&T information Services among scientists, researchers, engineers, academicians, technologists and entrepreneurs. Such efforts result in boosting of S&T information dissemination and increase in PASTIC member who benefit from provision of free on line services including email alerts, Technology Round Up, Current Contents and Fresh Arrivals of PASTIC Library on regular basis.

In this regard, 24 Service Stalls were organized at

Pakistan Scientific & various universities and Industry, KPK University of print form and 27767 Technological Information organizations during Engineering and Technology, documents in digital form Centre (PASTIC) organizes financial year 2013-14. Two University of Peshawar and were supplied to scientists, seminars and stalls at seminars and four workshops Ayub Agriculture Research researchers and R&D exhibitions across the collaboration with Lahore Besides during 2013-14, abstracts on various topics

Workers. Also 88884



Students at PASTIC Services Stall organized at G C University, Faisalabad

## **PASTIC Joins Hands with MUET to share Information Resources**

Pakistan Scientific & Technology (MUET), Understanding between the dissemination of scientific Technological Information Jamshoro to share the two organizations has been information by using each Centre (PASTIC) has Information Resources of initiated. Under this MoU, other resources. initiated efforts for MUET Library and Online PASTIC and MUET will Collaborative training establishing liaison with Information Centre. In this work together for promotion programmes and seminars Mehran University of regard, process for signing of of research culture in will be also organized under Engineering and Memorandum of Pakistan through this MoU.

# **Important Meetings Attended**

Dr. Muhammad Akram Shaikh, Director General follow up meeting with Director General, Ayub Agriculture PASTIC attended 6th Meeting of National Assembly Research Institute, Faisalabad for commercialization of Standing Committee on Science & Technology at Research Results and Innovations. This meeting was Parliament House Islamabad on 14th July 2014.

Mr. Muhammad Hasnain, Deputy Director (STI), Problems Solving Research Policy for Enabling PASTIC, Faisalabad along with representative of IRP held a Environment" held at Faisalabad in June, 2014.

### Pakistan Science Foundation

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Pakistan Museum of Natural History

Garden Avenue. Shakarparian. Islamabad Phone: 9252086, 9252087 www.pmnh.gov.pk

#### **PASTIC National Centre**

follow up of the consultative workshop on "Encouraging

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Printed at: PASTIC Press Reprographic Unit, PASTIC National Centre, Islamabad ISO 9001:2000 Certified