



## From the Chairman



*Lack of teamwork is one of the main reasons for under-performance of many organizations and failure of many projects, especially the S&T projects in the country, as most of the employees prefer to take solo flights just to get credit of the work done by them, but badly fail in the end to achieve the desired results. It is an established fact that only those teams win which play in complete coordination and cohesion.*

*It is a common practice that often an employee of a section performing poorly try to shift responsibility on their colleagues, the section try to shift responsibility on other*

*Continued on page 2*

## Winners of 24<sup>th</sup> Intra-Board Science Essay & Poster Contest Awarded

Pakistan Science Foundation (PSF) organized a formal ceremony for the students of Board of Secondary Education (BSE), Karachi on October, 20, 2015 at BSE, Karachi, in connection with distribution of prizes among the winner students of 24th Intra-Board Science Essay and Poster Competitions.

Senior Minister of Education, Government of Sindh, Mr. Nisar Ahmed Khuhro was the Chief Guest on this occasion. Winner students with their parents and teachers attended the prize distribution ceremony.

*Continued on page 2*



Mr. Nisar Ahmed Khuhro, Senior Minister of Education, Government of Sindh, Mr. Anwar Ahmed Zai, Chairman BSE Karachi and Khalid Hussain, Assistant Director (Caravan), PSF distributing the cash prizes among the winning student of Intra-Board Science Essay and Poster Competitions.

## PSF Selects 300 Students for Science Talent Farming Scheme



Dr. Muhammad Akram Shaikh, Member Science, PSF/ Director General, PASTIC, Mr. Hasnat Ahmed Qureshi, Member Finance/Project Director, PSF, conducting the IQ Test.

Pakistan Science Foundation (PSF) has selected 300 students from all over the Pakistan for Science Talent Farming Scheme (STFS) on the basis of merit and quota through written test, IQ test and interview score.

PSF conducted computer-based IQ test and interviews of STFS candidates belonging to Islamabad, Rawalpindi, Khyber Pakhtunkhwa (KPK),



*From the Chairman*

*sections, the organization try to shift responsibilities on other organizations and in the end the country suffers mainly due to absence of accountability. It is need of the hour that the organizational heads may motivate their employees to work as a team by forging trust among them and encouraging them by appreciating their abilities in order to get maximum output from them. But at the same time they should also put in place a foolproof system of accountability acting on the basic social principle of reward and punishment in any institution for its sustained progress.*

*The developed countries achieved successful results only due to the fact that at organizational and projects level they paid full attention to teamwork for improving the performance for achieving their set targets. It is our foremost responsibility to make good teams of employees according to their capacity and potential by inculcating a sense of ownership among them, ensuring collective responsibility and by trusting their abilities.*

**Quote of the Month**

Teamwork makes the dream work, but a vision becomes a nightmare when the leader has a big dream and a bad team.

—John C. Maxwell

Azad Jammu and Kashmir (AJK), Gilgit-Baltistan and Federally Administered Tribal Area (FATA) on October 8, 2015 at Islamabad.

The candidates who had passed the science aptitude test conducted by the PSF through Pakistan Testing Service (PTS) appeared for this test/interview. For the candidates belonging to the Punjab province, the IQ test/interview was held on October 10 at COMSATS, Lahore, for candidates of Sindh on October 10 at PASTIC Sub-Centre, Karachi and for the candidates of Balochistan on October 10 at PASTIC Sub-Centre, Quetta.

Mr. Hasnat Ahmed Qureshi, Member Finance/Project Director, PSF and Dr. Muhammad Akram Shaikh, Member Science, PSF/ Director General, PASTIC

conducted the IQ Test and interview. While Mr. Faisal Hilal, Acting Assistant Director (STI), PASTIC Sub-Centre, Quetta conducted Computer Based IQ Test/Interview at PASTIC Sub-Centre, Quetta.

It is pertinent to mention that under Vision 2025, The Government of Pakistan has launched "Science Talent Farming Scheme" which is being implemented through collaborative efforts of relevant organizations and stakeholders. PSF is playing a major role in this regard. The CDWP has approved the project titled "Science Talent Farming Scheme for 1800 Young Students".

The project envisages support to 1,800 students selected through specialized tests for their grooming up to higher

level and a lot of prolific scientists will be produced to actively use science and technology for socio-economic development of the country.

The students passionate towards science education, who have passed their Matric / S S C / e q u i v a l e n t examinations in science subjects from the government educational institutions with at least 60% marks in Matric/Equivalent with at least 70% marks in science subjects, will be selected through specialized tests, Computer Based IQ tests, presentations and interviews for admission to selected outstanding colleges. The students will be provided scholarships up to Rs.10,000 per month to cover fees and educational expenditures.

*From page 1*

**Winners of 24<sup>th</sup> Intra-Board Science Essay & Poster Contest Awarded**

Mr. Anwar Ahmed Zai, Chairman BSE Karachi delivered Welcome Address and appreciated efforts of PSF. Mr. Nisar Ahmed Khuhro, in his speech said that we should

respect our educational institutions as future of students hinges on them. He praised the extra-ordinary efforts of Mr. Anwar Ahmed Zai, Chairman BSE Karachi and said that

educational institutions are being promoted by the efforts of such people. He appreciated the role of PSF in this regard. At the end, he distributed cash prizes among the winner students.

**15,650 Students Visit Science Caravan Exhibitions**

Under the Science Popularization Programme, PSF Science Caravan Units arranged science exhibitions in different parts of the country and over 15,650 students and teachers from 88 schools benefitted from these science promotional activities.

**Federal Unit:** PSF's Federal Science Caravan Unit arranged Science Caravan exhibition on

October 10-23, 2015 at GGHSS, Kushmarah, Skardu. District Inspector of Schools Mr. Abdul Rahim formally inaugurated the exhibition on October 14, 2015. Chairman SMC (School Management Committee) Mr. GhulamAbbass, President, Press Club Skardu, Mr. Muhammad Hussain Azad, Principal GGHSS, Skardu, Mr.

Faiz Muhammad, teachers, journalists from print and electronic media and general public were also present on the occasion. All the guests visited the exhibition and appreciated the activity. A set of Urdu Science Encyclopedia was handed over to the Principal of the said school. The exhibition was visited by 3,150 students and teachers from 21 schools.



Glimpses of Science Exhibition at GGHSS, Skardu





A view of Science Exhibition arranged by Peshawar Unit.

**Peshawar Unit:** The Science Caravan Peshawar Unit arranged Science Exhibition at GHSS, Mazdoorabad, Takht Bai, Mardan on October 12-21, 2015 and 1,826 students and 51 teachers from 11 schools visited it.



Planetarium Assistant Mohsin Manzoor explains solar system to students during Planetarium Show at Government Boys High School, Saringani, Jhal Magsi.

(Boys) Higher Secondary School Phulji inaugurated the Exhibition. Over 3,420 students, teachers and other staff of 22 schools visited the science exhibition.

**Jaffarabad Unit:** The Science Caravan Jaffarabad Unit



Glimpses of Science Exhibition arranged by Sukkur Unit.

**Sukkur Unit:** The Science Caravan Sukkur Unit arranged Science Exhibition at Govt (Boys / Girls) Higher Secondary Schools Phulji, District Dadu, on October 14-28, 2015. Mr. Ghulam Nabi Panhwar, Principal Govt.

arranged Science Exhibition at the schools of District Jhal Magsi, Gandawah/Gandakha on October 04-17, 2015. A walk for science with Deputy Commissioner of Jhal Magsi and Students of GBHS Jhal Magsi was also arranged and



over 3,912 students and teachers from 22 schools participated in these activities.

**Punjab Unit:** The Science Caravan Punjab Unit arranged Science exhibition at the Punjab School System, Kehkshan Colony No. 2, Faisalabad on October 5-10, 2015, which was visited by over 105 teachers and 3,000 students from five different schools. Science exhibitions were also arranged on October 12-16, 2015 at City Star Public High School (Boys), 424-A, Peoples Colony No.1, Faisalabad, on October 19-22, 2015 at Al-Faisal Grammar

High School, Ahmadabad and on October 26-29, 2015 at Dar-e-Arqam Schools, Amin Town, Kashmir Road, Faisalabad. Over 2910 teachers and students from eight schools visited these exhibitions.

The Science Caravan Punjab Unit also arranged visits of 381 students from Allied School, Canal Road, Faisalabad to Science Centre Faisalabad, Dar-e-Arqam, Chiniot, Sheraz Kids Campus, Jaranwala, Faisalabad and Eden Rock School, Nishatabad, Faisalabad, on October 12, October 15 and October 19, 2015 respectively.



Deputy Commissioner Jhal Magsi Mr. Saeed Ahmed Umrani leads Walk for Science Rally at Jhal Magsi.



Different views of Science Exhibitions at PSS, Faisalabad.



Glimpses of science exhibition at City Star Public High School, Faisalabad and Al-Faisal Grammar High School, Ahmadabad, Ghulistan Colony, Faisalabad.



## IBSE Concept Introduced to Teachers of Skardu Schools



Hands on activities being performed by students and teachers under IBSE at GGHSS, Kushmarah, Skardu.



Pakistan Science Foundation arranged a teachers training session on Inquiry-Based Science Education (IBSE) on October 17, 2015 at Government Girls Higher Secondary School (GGHSS), Kushmarah, Skardu. Over 40 teachers from the said school and surroundings area schools participated. Ms.

Zaiban Farooq, Assistant Director briefed the participants about IBSE. Later on, some hands on activities with the teachers and students were performed. Mr. Asadullah guided the teachers and students while performing the activities under IBSE. All the teachers acknowledged the session.



## Consultative Meeting held to Assess Need of Schools for Science Kits

In connection with need-assessment survey of the school labs of the District Layyah, Pakistan Science Foundation (PSF) held a meeting with the officials of UNESCO on October 23, 2015 at PSF to share the survey data with them. The PSF survey report was presented to UNESCO. They highly acknowledged the work. Keeping in view the labs condition, it was mutually decided to submit a comprehensive proposal to UNESCO for improvement of schools labs. Before submission of the proposal to UNESCO, a

consultative meeting of the teachers was held on October 29, 2015 at PSF.

Prof. Dr. Muhammad Akram Shaikh, Member Science PSF, presided over the meeting. Teachers from Federal Directorate of Education (FDE) were consulted to develop the proposal according to needs of the schools' labs. Priority areas for science kit were discussed. Teachers gave their suggestion on prescribed proforma.

## Screening Committee Reviews Concept Papers for NSLP Research Projects

Prof. Dr. Muhammad Ashraf, Chairman PSF/Chief Executive, Natural Sciences Linkages Programme (NSLP), has constituted a Screening Committee to examine the technical merits of concept papers under NSLP submitted for financial support before obtaining the full length proposal.

In this connection, 7<sup>th</sup> meeting of PSF Screening Committee was held on October 14, 2015. Prof. Dr. Muhammad Ashraf, Chairman PSF/Chief Executive NSLP presided over the meeting that reviewed 14 concept papers in detail keeping in view the national needs and recommended one concept paper for further processing.

## Pakistan Museum of Natural History (PMNH)

*Editor: Dr. Muhammad Ismail Bhatti*

### Interactive Floor System a New Addition to PMNH Exhibits

The iFloor is an interactive projection system that can be used on any appropriate surface including floors, walls and tables to create an eye-catching interactive sensitive display. This system integrates a vast range of moving imagery and interactive video from fish ponds to football pitches to logos and special effects which can be created individually for additional 'wow' factor.

This technology is used worldwide to attract people. This system is launched in PMNH galleries. Chairman PSF Prof. Dr. Muhammad Ashraf visited this system and appreciated this new addition to displays for general public. Ubaidullah Azeem, Sr. System Analyst of PMNH has installed this system. It is hoped that this new exhibit will attract more people to visit PMNH.



Chairman PSF Prof. Dr. Muhammad Ashraf visits interactive floor system at PMNH.

### PSF Chairman Inaugurates Quranic Plants Gallery at PMNH

The scientists of Botanical Sciences Division of PMNH are engaged in collecting,

identifying, preserving and education of flora of Pakistan. Other than scientific work on

plants to educate the visitors to PMNH about the importance of the plants, a gallery related to

some plants which are mentioned in Holy Quran has been designed by Dr. Sumaira Sahreen, Associate Curator BSD. There are 22 different plants with 69 verses mentioned in Holy Quran about different plants and their importance for mankind.

PSF Chairman Prof. Dr. Muhammad Ashraf inaugurated the gallery by cutting a ribbon on October 20, 2015. DG PMNH Dr. M.K. Leghari, Directors and other scientists were also present on this occasion. The PSF Chairman appreciated the effort made by scientist as well as organization.



PSF Chairman Prof. Dr. Muhammad Ashraf visits Quranic Plants Gallery at PMNH after its inauguration.



## PSF Chairman Reviews PMNH Progress



PSF Chairman Prof. Dr. Muhammad Ashraf chairs Review Meeting at PMNH.

PSF Chairman Prof. Dr. Muhammad Ashraf chaired a meeting at PMNH on October 20, 2015 to review progress of the organization. PMNH Director General Dr. M.K. Leghari gave a presentation about the organization's activities. All Directors were also present. After review meeting the Chairman called all officers of the organization and discussed research activities.

## PMNH Scientists Discover Pelecypods Fossils from Jhelum Area



Pelecypods (clams) are bivalved mollusks and are common in the oceans and in fresh water of the world today. Marine rocks Pelecypods have been already reported but fresh water first time reported by the scientists of Earth Sciences Division of PMNH from Jhelum area of Pakistan. Aamir Yassen, Associate Curator and Hamadur Rahim, Research Associate carried out 11 days field work from October 06-16, 2015 in Jhelum and Mianwali areas for collection of vertebrate and invertebrate fossils found in Siwalik rocks to interpret evolution, bio-geographic changes in the fauna. These rocks are upto 20 million years old and give complete record of vertebrate fossils without major break in deposition. The PMNH scientists collected over 250 unique specimens of vertebrate and invertebrate fossils. The invertebrate (Pelecypods) fossils are first time reported in D h o k P a t h a n Formation of two million years age.



PMNH Scientist busy in research work in the field.

## Site for Natural History Museum in Tando Muhammad Khan Visited

On directives of the Chairman PSF, DG PMNH Dr. Muhammad Khan Leghari and Operational Manager PMNH Mr. Rahat Saeed visited Tando Muhammad Khan, Sindh to visit site for establishment of Science and Natural History Museum. They visited the site and held meetings with Senator Dr. Karim Khawaja, Mr. Tagar, Manager and XEN Wapda in Karachi and Tando Muhammad Khan. The main objective of this visit was to finalize the site and other necessary arrangements for establishment of Science and Natural History Museum in Tando Muhammad Khan, Sindh.



Building for Science and Natural History Museum in Tando Muhammad Khan.



PMNH experts visit site for establishment of Natural History Museum in Tando Muhammad Khan

## International Snow Leopard Day 2015 Celebrated



PMNH celebrated the first International Snow Leopard Day on October 23, 2015.

Committed to raising awareness for the plight of an iconic species, the 12 Asian countries that are home to this cat had declared October 23, 2014, to be International Snow Leopard Day to save this endangered cat. Keeping in view importance of the event, PMNH and representatives of Snow Leopard Foundation planned a

joint activity. Dr. Ghazala Roohi, Director ESD, PMNH, arranged a meeting of the Snow Leopard Foundation's representatives with the Chairman PSF, Prof. Dr. Muhammad Ashraf, on October 15, 2015. The meeting discussed the matters related to arrangements for celebration of the Day at PMNH. The International Snow Leopard day was celebrated in a befitting manner and general public were educated about the threats to this endangered species also found in Khunjab National Park of Pakistan. It is pertinent to mention that PMNH has established a beautiful diorama of this lovely animal in its Biodiversity Gallery.



PSF Chairman Prof. Dr. Muhammad Ashraf chairs a meeting of PMNH scientists and representatives of Snow Leopard Foundation for arrangements to celebrate the International Snow Leopard Day 2015.



## Turkish and USA Delegations Visit PMNH



Turkish delegation visits PMNH.

Two-member Turkish delegation comprising Mr. Grey Tezel, Coordinator, and Mr. Onur Oztruk, Deputy Coordinator, Turkish International Cooperation Agency (TIKA), Turkey, visited PMNH on 15th October 2015. Dr. S. Lal Shah, Director Public Services Division (PSD), PMNH and scientists from science divisions received the guests. The delegation visited different galleries of the museum and took keen interest in various displays. They appreciated educational and research activities of the organization, especially for general public and young student visitors.

After the visit they had a formal discussion with the Director, PSD.

Prof. Kristopher from the Embassy of the United States of America and Dr. Habib Ali Mirza, Director Research Support PSF made a formal visit to PMNH on 30th October, 2015. Dr. Muhammad Khan Leghari, Director General, PMNH and Mr. Rahat Saeed, Operational Manager PMNH welcomed the guests. Mr. Rahat Saeed briefed the delegation in detail about role and working of the organization. The Guest visited galleries and in a meeting with DG PMNH discussed matters of mutual interest.



US Embassy official visits PMNH.

## Schedule of Visit Days/Timings to Museum Changed

Keeping in view the general public and students visits to PMNH during the weekly holidays and Fridays, the Museum authorities have changed the scheduled days/timings of general public's visit. According to new schedule, PMNH will remain open for general public from Tuesday to Sunday from 9-30 am to 4-30 pm daily and remain closed on Mondays. However, Museum's other activities will be as usual.

## Student Groups from 19 Educational Institutions Visit PMNH in October

Public education on natural history is one of the main objectives of PMNH to raise awareness about conservation and protection of natural resources of the country. PMNH continues to arrange and conduct visits of the student groups and teachers from different educational institutions to its Display Galleries round the year for achieving this objective.

During October 2015 students groups and teachers from 19 educational institutions from different parts of the country visited the Museum to learn about natural history. The total number of visitors to Museum this month stood at 5,226 including 1,628 students, 2,092 general public, 16 foreigners and 1,490 children under 12 years age.



A group of students pose for a group photo at PMNH after visit to display galleries.

## PMNH Bids Farewell to its Retiring Officials

PMNH arranged a farewell party in honor of its retiring officials including Dr. Saleem Ahmad, Curator, Botanical Sciences Division, M.A.H Mazaffar Faizi Awan, Associate Artist, Abdul Rehman, Driver and Ghulam Qadir, Dispatch Rider on October 21, 2015.

PSF Chairman Prof. Dr. Muhammad Ashraf was the Chief Guest of this occasion. PSF Member Science Prof. Dr. Akram Shaikh was also present. The scientists and staff members of the organization shared their comments about the retired officials and acknowledged their valued contributions in establishing this Museum. At the end the Chief Guest presented gifts to the retired officials.



PSF Chairman Prof. Dr. Muhammad Ashraf gives gifts to the retired officials during a farewell party at PMNH on October 21, 2015.



# Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Mrs Rahila Khurram

## PASTIC Organizes Workshop “Easy Way of Library Automation & Digitization”

PASTIC Sub-Centre, Muzaffarabad in collaboration with Azad Jammu and Kashmir (AJK) University organized a 3-day workshop on “Easy Way of Library Automation & Digitization” at Muzaffarabad from October 02-04, 2015. The workshop was aimed at enhancing capacity and skills of library professionals.

Prof. Dr. Khawaja Farooq Ahmad, Vice Chancellor of AJK University, was the Chief Guest at the Inaugural Ceremony of the workshop while Prof. Dr. Muhammad

Akram Shaikh, Director General, PASTIC was the Guest of Honor. The workshop was attended by 52 participants from different cities of AJK including Kotli, Rawala Kot, Nilam, Mirpur and Muzaffarabad.

At end of the workshop, Prof. Dr. Khawaja Farooq Ahmad awarded shields and certificates to the participants and resource persons of the training programme. He appreciated the efforts and role of PASTIC in organizing such useful trainings.



Prof. Dr. Muhammad Akram Shaikh, DG, PASTIC giving introductory remarks during the Inaugural ceremony of the workshop.



Syed Habib Akhter Jaffri, Principal Librarian (PASTIC) delivering a presentation to the workshop participants.



Prof. Dr. Khawaja Farooq Ahmad, AJK University VC giving shields to the workshop resource persons.

## PASTIC Organizes Training on “Research Tools and Techniques”

PASTIC National Centre, Islamabad organized a 3-day basic hands-on training workshop on “Research Tools and Techniques” on October 14-16, 2015 on its premises.

The objective of this workshop was to build the capacity of young researchers and enhance their analytical skills in data analysis and data mining through popular software tools. Participants of the workshop included the faculty members, research scholars of M. Phil/Ph.D of S&T Universities of Islamabad-Rawalpindi region. Ms Nageen Ainuddin, Director

PASTIC, concluding the workshop said that in this digital age of technology, IT-based scientific research tools are useful to make the research process easier and faster. For better use of these tools, the researchers should have a thorough knowledge about the abilities and limitations of the software in order to meet the



A glimpse of participants of the Workshop

objectives of the research in a better way.

Syed Habib Akhter Jaffri, Principal Librarian, PASTIC/Chief organizer of the workshop, explaining the

objectives of the workshop said that this hands on training will improve the capacity building of young researchers by providing an overview of capabilities of the scientific research tools like SPSS and Weka with some of the basic elements of data analysis which these tools provide. Mr Muhammad Usman, Web Manager (PASTIC) was the key resource person of the workshop.

At the end of workshop, Ms. Nageen Ainuddin, Director, PASTIC distributed the certificates among participants of the workshops.



Ms Nageen Ainuddin, Director, PASTIC, distributes certificates among participants at closing ceremony of the workshop.



## PASTIC Services Awareness Seminar at Islamabad

PASTIC National Centre, Islamabad, arranged a PASTIC Services Awareness Seminar at its IT Lab on October 22, 2015 and 30 students from Social Sciences and Taxila Institute of Asian Civilizations, QAU, participated in the seminar.

Mrs. Kauser Sohail, Senior Scientific Information Officer, PASTIC, delivered a

presentation on PASTIC Information Services to the students. Mr. Obaid Anwar, Senior Scientific Information Officer, PASTIC gave a demonstration on Document Supply Service to the students. PASTIC membership forms were also got filled and the students were registered as free members.



Mr. Obaid Anwar, Sr. Scientific Information Officer, PASTIC, giving a demonstration on Document Supply Service of PASTIC.

## PASTIC Information Services at Doorsteps of Universities / Institutions

**PASTIC Sub Centre, Karachi:** A PASTIC Services Stall was organized at Shaikh Zaid Institute, University of Karachi during the 1st Conference on "Nurturing Community Pharmacy in Pakistan" on October 01, 2015 by PASTIC Sub-Centre, Karachi. A large number of students, researchers, faculty members visited the PASTIC Stall.

The Karachi Centre organized another PASTIC Services Stall at Dr. Essa Laboratory & Diagnostic Centre, Karachi during a one-day "Clinical Seminar on Polio" on October 27, 2015. A large number of students, researchers, and faculty members visited the PASTIC stall and information services were provided at the stall.



PASTIC Services Stall at Shaikh Zaid Institute, University of Karachi.



A Glimpse of PASTIC Services Stall at Dr. Essa Laboratory & Diagnostic Centre, Karachi.

## Breast Cancer Awareness Seminars at Peshawar



Mrs. Ghazala Yasmin, Deputy Director, PASTIC Peshawar, delivering the presentation about PASTIC S&T Services at IRNUM Hospital, Peshawar.

PASTIC - Peshawar in collaboration with IRNUM Hospital Peshawar organized two Breast Cancer Awareness Seminars at IRNUM Hospital, Peshawar and ABASYN University, Peshawar on October 27 and October 30, 2015, respectively.

Dr. Nabila Javed, Oncologist, IRNUM Hospital delivered a comprehensive lecture on

"Causes, Symptoms and Early Treatment of Breast Cancer" and Ms Gazala Yasmeen Malik, Deputy Director, Peshawar Sub-Centre delivered a presentation on PASTIC Services during both the Seminars. PASTIC services brochures and registration forms were distributed among the participants and 100 students got registered as free members.



Mrs. Ghazala Yasmin, Deputy Director, PASTIC Peshawar, Dr. Nabila Javed, Oncologist, IRNUM Peshawar along with faculty members attending the Breast Cancer Awareness Seminar at ABASYN University, Peshawar.

### Pakistan Science Foundation

Constitution Avenue, Islamabad  
Phone: 9201887, Fax: 9202468  
www.psf.gov.pk  
E-mail: psfsecy@psf.gov.pk

### Pakistan Museum of Natural History

Garden Avenue,  
Shakarparian, Islamabad  
Phone: 9249239 Fax: 9249240  
www.pmnh.gov.pk

### PASTIC National Centre

Q. A. University Campus, Islamabad  
Phone: 9248103-04, Fax: 9248113  
www.pastic.gov.pk  
E-mail: director@pastic.gov.pk