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From the Chairman



Motivation and inspiration are the catalysts for excelling in any field and achieving the goals and targets. Many factors trigger motivation and inspiration but the most important one is the element of competition and the desire of proving the best one among others.

The science competitions including science quiz, essays, posters, models, innovations and projects etc at the national and international levels are the best way of science popularization and generating students' interest in science. These competitions not only motivate students for hard work to win but also their interaction with other students open their minds for learning new things about science and creativity.

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PSF to Play Role in Popularization of Innovative Technologies: Dr. Ashraf

Popularization of Innovative Technologies developed by the R&D organizations and through Pakistan Science Foundation (PSF) funded research projects is a must for socio-economic development of the country, it was stressed in a meeting at PSF on October 24, 2017.

The Meeting chaired by PSF Chairman Prof. Dr. Muhammad Ashraf was attended by Director Generals of S&T organizations, senior officials of Ministry of Science and Technology, PSF Director Research and Directors ORIC



PSF Chairman Prof. Dr. Muhammad Ashraf chairs a meeting of Directors ORIC for popularization of Innovative technologies at PSF.

(Office of Research Innovation and Commercialization) from universities.

The Chairman PSF stressed the need for developing a

mechanism to popularize indigenous innovative technologies developed by R&D organizations, especially

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Writers, Poets Asked for Promotion of Science through Literature

The literature plays a major role in the development of nations and cultures as the writers and poets immensely influence the opinion and thoughts of people through

their literary works, said Pakistan Science Foundation Chairman Prof. Dr. Muhammad Ashraf on October 10, 2017.

He was addressing a function

“Promotion of Science through Literature” at Pakistan Science Foundation.

Renowned poets and broadcasters Mehboob Zafar, Sarfraz Shahid, poetesses and broadcasters Rizwana Durrani, Kausar Samreen and renowned scientist Prof. Dr. Muhammad Aslam Baig and Dr. Ahsan Waqar were also present.

A large number of literary figures, scientists, students and media persons were present on



PSF Chairman Prof. Dr. Muhammad Ashraf, renowned scientist Prof. Dr. Aslam Baig, renowned poets Mehboob Zafar and Sarfraz Shahid at a function on "Science Popularization through Literature" at PSF on October 10, 2017.

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From the Chairman

The winning students also become role models for other students and become a source of inspiration as well as motivation. "Winning isn't about finishing in first place. It isn't about beating the others. It is about overcoming yourself. Overcoming your body, your limitations, and your fears. Winning means surpassing yourself and turning your dreams into reality," says famous writer Kilian Jornet. It is an established fact that the science competitions result in very healthy impact on the minds of students and play an important role in inventions and innovations, which are pre-requisite for scientific and socio-economic development of any country. Keeping in view the importance of these competitions in popularization and development of science, Pakistan Science Foundation, under its science popularization programme, regularly organizes science competitions at the regional and national levels. It also makes arrangements for Pakistani students' participation in international science competitions like International Junior Science Olympiad and Asian Science Camps etc and won laurels for Pakistani. But there is a need to arrange such competitions more frequently in the educational institutions by the science teachers and other relevant quarters in order to generate students' maximum interest in the field of science.

this occasion.

The PSF Chairman highlighted the PSF programmes for popularization of science and called upon writers, poets and scientists to play their role in developing a scientific culture in the country through their writings.

Mehboob Zafar, Sarfraz Shahid, Rizwana Durrani and Kausar Samreen mesmerized the audience through recitation of their poetic works, especially relating those works

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through electronic and print media to project the research work for benefit of the end users.

The meeting decided that PSF may act as facilitator and catalyst for popularization of innovative technologies and in collaboration with Commercialization Cell, Ministry of Science and Technology, act as focal point for identification of such technologies.



(Left to Right) Renowned scientist Prof. Dr. Aslam Baig, renowned poets Sarfraz Shahid, Mehboob Zafar, poetesses Rizwana Tabassum, Kausar Samreen and scientist Ahsan Waqar speaking at the function.

to science.

Prof. Dr. Muhammad Aslam Baig speaking on this occasion said that love is a must for poetry and scientific research and without love no piece of literature or scientific research could be produced.

Dr. Ahsan Waqar recited verses of Ghalib and related them to science. The speakers appreciated Pakistan Science Foundation's initiative to involve the important opinion-builders in popularization of science through literature.

Dr. Ashraf highlighted various programmes of PSF for popularization and promotion of science in the country.

Dr. M.D. Shami, eminent scientist, ex-chairman of PSF and first Pakistani recipient of UNESCO Kalinga Award for Science Popularization, who was especially invited to the meeting, gave valuable suggestions for popularization of innovation technologies. He stressed that the S&T as

well as R&D organizations may develop effective coordination and their heads should meet on regular basis for projection of their research work.

It was also decided that the meeting of Directors ORIC may be held regularly on quarterly basis for identification of innovative technologies and strategy for their commercialization and projection.

Lecture on "Role of Media in Popularization of Science"

Science Fund at District Level Can Improve Schools Standard: Speakers



Establishment of Science Fund at District level can help improve standard of schools and education, said Mr. Musharraf Zaidi, Director, Alif Elaan, an NGO, while delivering a lecture on "Science Popularization and Role of Media" at Pakistan Science Foundation (PSF) on October

31, 2017.

Scientists, teachers and students from different institutions and media members attended the Lecture. PSF Chairman Prof. Dr. Muhammad Ashraf, National Centre for Physics Director General Dr. Hafeezur Rahman Hoorani and International

Islamic University Islamabad (IIUI) Rector Dr. Massom Yasinzaï were also present. The Lecture was part of PSF Popular Science Lecture Series.

Musharraf Zaidi said that Standard Schools are imperative for improving science educational standards in the country and only by establishing standard schools we can enable our children cope with challenges of 21st century. He said that media can play an important role in popularization of science as well as improving educational standards through giving

Quote of the Month

"Once you have an innovation culture, even those who are not scientists or engineers - poets, actors, journalists - they, as communities, embrace the meaning of what it is to be scientifically literate. They embrace the concept of an innovation culture. They vote in ways that promote it. They don't fight science and they don't fight technology."

– Neil deGrasse Tyson

importance to scientific and educational programmes.

PSF Chairman Prof. Dr. Muhammad Ashraf speaking on this occasion said that the establishment of standard educational institutions is the only way that leads to the scientific Pakistan. He elaborated different science



Mr. Musharraf Zaidi, Director, Alif Elaan, delivers lecture on "Science Popularization and Role of Media" at PSF educational programmes of the Foundation and said that the



PSF Chairman Prof. Dr. Muhammad Ashraf speaking at a lecture on "Science Popularization and Role of Media" at PSF educational programmes of the Foundation and said that the

information to the students and other people in order to make these programmes successful. He stressed that the role of media is more important in enabling people to get the benefits of science in an appropriate way. He hoped that media will help PSF in realizing its objectives and targets.

PSF Team Monitors its Research Projects in Lahore

Under the dynamic leadership of the Chairman, PSF/Chief Executive, NSLP, Monitoring and Evaluation Wing has been established in the Foundation. This Wing aims to monitor technical and fiscal progress of all the PSF funded projects on regular basis. The monitoring process will help smooth execution of PSF funded projects within stipulated time period. As per directions of the Chairman, PSF/Chief Executive, NSLP, a monitoring team comprising of the following officers visited Lahore on 16-18 Oct, 2017 to monitor PSF funded research projects, which are at different stages of execution. The Monitoring Team

included Dr. Mirza Habib Ali, Director Research Support, PSF, Dr. R.H. Usmani, Ex-Animal Husbandry Commissioner, Islamabad, Dr. Aamir Humayun Malik, Deputy Director Development, CABI, Rawalpindi, Dr. Muhammad Asif Rafiq, Associate Professor, Department of Metallurgical & Materials, Engineering UET, Lahore, Mr. Nasir M Khokhar SSO-NSLP, Mr. Muhammad Yaqub Tahir, Internal Audit Officer NSLP-PSF.

During the monitoring visit to Lahore, 08 research projects being executed in University of the Punjab, Forman Christian College University,



Dr. Mirza Habib Ali, Director Research, PSF, along with Subject Expert during Monitoring of a Project



University of Veterinary and Animal Sciences, CIIT and PCSIR Labs, Lahore were monitored. The progress on projects was found satisfactory. The principal Investigators showed their commitment to achieve objectives of the projects and appreciated efforts of the Foundation for scientific developments in the country. Two very applied nature

projects entitled "Next Generation Granular Biomedical Ceramics for Rapid Bone Defect Repair No. PSF/Res/C-CIIT/Med(297)" and "Development of Indigenous Technology to Produce High Energy from RDF Gasifier for Zero Waste No. PSF/ILP/P-PCSIR/Envr (083)" are expected to have great impact on energy and health sectors of the country.

PSF Chairman Visits NGO School in Mandra

Pakistan Science Foundation (PSF) Chairman Prof. Dr. Muhammad Ashraf visited a school in Mandara, Rawalpindi on October 10, 2017. The school has been established by Development in Literacy (DIL), an NGO working for educating children and empowering communities. The visit was part of PSF Science Popularization activities. PSF Senior Science Promotion Officer Syeda

Rehana Batool and DIL Chief Operating Officer Saadia Hashir and Manager Asad Jahangir were also present during the visit. The PSF Chairman visited the classrooms and interacted with the students. Appreciating the standard of school he said that the other NGOs and private sector should also come forward and set up such educational institutions and empower the communities through science

education. He extended full support of the Foundation in improving science education.

He also handed over a set of Science Encyclopedia to the School's head.



15,686 Students from 44 Schools Visit PSF Mobile Exhibitions in Oct. 2017

As many as 15,686 students and teachers from over 44 schools visited science exhibitions arranged by PSF Science Caravan Units in October 2017 in different cities of the country. The detail is as under:

Federal Unit: The Science Caravan Federal Unit arranged planetarium shows at IST, Islamabad on October 4-6, 2017 and schools associated with DIL (Development in Literacy) at Mandra on October 11, 2017. Over 1,850 students participated in the shows.

Quetta Unit: The Science Caravan Quetta Unit organized planetarium show and mobile science exhibition on 16-21 Oct, 2017 at District Ziarat which was visited by 2,185 students and teachers. The exhibition was inaugurated by District Education Officer and DDO Ziarat.

Tandojam Unit: The Tandojam Unit arranged Science Caravan exhibition at GBHS School Taluka and District Umer Kot on October 23-28, 2017. Over 1,789 students and 105 teachers from 14 schools visited the exhibition. Science Caravan Sindh Unit Tandojam also participated in Grow Festival at Sindh Agriculture University Tandojam on October 23, 2017.

Jaffarabad Unit: The Jaffarabad Unit

arranged science exhibition at the schools of Dera Allah Yar on October 2-7, 2017. Deputy Commissioner Jaffarabad Sohail Anwar inaugurated the Exhibition in Girls Schools and District Council Chairman Mir Zubair Khan Jamali inaugurated in Boys Schools Dera Allah Yar. The DC, DEO, Council Chairman, students, teachers and journalists visited the Mobile Science Talent Farming Lab. Over 2,427 students of 10 schools and 2 colleges and 112 teachers and guests visited these exhibitions.

The Assistant Commissioner Usta Muhammad Mr. Zulfiqar Ali, Ex-MPA Mir Haider Khan Jamali, PIHRO Balochistan President Mir Ghulam Mustafa Khan Rind, DDO Shah Bux Pandrani, Mir Asghar Ali Soomro, Raiz Khan Hijwani, Mir Nisar Khan Rind, Senior Journalist Saeed Ahmed Nomani, Director SHADE Sijjad Ahmed and others visited the mobile science lab.

Sukkur: The Science Caravan Sindh Unit, Sukkur arranged the science exhibition at Govt. Boys Higher Secondary School Thari Mir Wah, District Khairpur on October 09-14, 2017. Mr. Ghulam Nabi Shar, Headmaster, Govt.

(Boys) High School Thari Mir Wah inaugurated the science exhibition. Over 1,970 students, teachers and other staff of seven schools visited the science exhibition. The headmaster and teachers thanked PSF for organizing the Mobile Science Lab program in the school.

Peshawar: The Peshawar Unit arranged science caravan exhibitions at GSSHSS, Ouch, District Dir Lowe, GHSS, Kahal, District Haripur on October 09-14 and October 16-21, 2017 respectively. Popular science lectures on "Periodic Table-a Key Learning for Chemistry" by Dr. Syed Sultan Alam, Assistant Prof. Department of Chemistry University of Malakand and "Bad & Good Effects of Radiation" by Dr. Fayyaz Khan, Assistant Prof. Department of Geology, University of Haripur were also held at these schools on October 12 and October 19, 2017 respectively.

Faisalabad Unit: The Faisalabad Unit arranged science exhibitions in Tehsil 18 Hazari, District Jhang on October 09-13, 2017 and District Gujrat on October 16-27, 2017. As many as 4,439 students visited these exhibitions. Over 809 students from eight schools also visited the Science Centre, Faisalabad in October 2017.



Glimpses of science activities by Jaffarabad Unit



Glimpses of Caravan Exhibitions arranged by Tandojam Unit

PSF Organizes Science Quiz Competitions

In connection with the World Science Day 2017 celebrations PSF arranged Science Quiz Competition-2017 across the country. PSF Science Caravan Multan Unit in coordination with Mr. Riaz Ahmad, DEO (SE), Multan, arranged Science Quiz Competitions on October 24 at two different centers. The competition for boys was held at Govt. Comprehensive Higher Secondary School, Multan and for girls at Govt. Girls Comprehensive Higher Secondary School, Multan. Over 71 science students from

different schools studying in class 9th to 12th in two categories i.e. 9-10 Grade and 11-12 Grade, participated in the competition.

The Science Caravan Sindh Unit Sukkur organized the Quiz competition among the students of Govt./Private Girls High Schools Sukkur at Rising Kids Public High School Sukkur on October 25, 2017. Students from five schools participated. Prizes and shields were distributed among the position holders.

Science Caravan Quetta Unit

organized Quiz Competition at Govt. high School Killi Shekian on October 30, 2017, in which five schools participated. At the end prizes were distributed among winner students.

Science Caravan Tandojam Unit organized Quiz competition at A.M Shaikh Auditorium, Sindh Agriculture University (SAU) Tandojam on October 19, 2017. Eight schools participated in competition and prizes were distributed among the winners. Science Caravan Jaffarabad Unit arranged the Quiz

Competition in GBHS Noorpur Jamali on October 21, 2017 in which students of eight high schools participated. In this quiz competition Mr. Mohsin Ali and Jaweria from Jinnah Grammar school got the 1st position while Mr. M. Ameen and M. Asif from GBHS Rustam Khan Jamali and Mr. Aabid Ali and Saeed Ahmed from GBHS Haq Bahoo got 2nd & 3rd positions respectively. District Education Officer Mulla Muhammad Umrani was the chief guest while Shah Bakhsh Pandrani, DDOE Usta Muhammad was the guest of honour. Winner students were awarded with prizes and certificates.



Pakistan Museum of Natural History (PMNH)

Editor: Dr. Muhammad Ismail Bhatti

Capacity Building Workshop at PMNH

Preparation of Nomination Dossiers of Biosphere Reserves in Pakistan

Ministry of Climate Change in collaboration with UNESCO, Pakistan Museum of Natural History (PMNH) & EvK2CNR, jointly organized two days "Capacity Building Workshop for Preparation of Nomination Dossiers of Biosphere Reserves in Pakistan" on October 09-10, 2017 at PMNH, Islamabad. The representatives from all provinces/regions, research institutes, public sector universities, civil society and relevant stakeholders participated in the workshop. The inaugural ceremony was attended by Secretary, Climate Change Division, Director General PMNH, Scientific Representative, EvK2CNR and Joint Secretary (International Cooperation) Climate Change Division, Islamabad. Syed Abu Ahmad Akif, Secretary,



Climate Change Division and Chairman Pakistan Science Foundation, Dr. Muhammad Ashraf, outlined the importance of UNESCO's Man and Biosphere Program (MAB) and emphasized on the need of setting up new Biosphere Reserves in Pakistan to mitigate the negative impacts of pollution climate change, environmental deterioration and biodiversity loss.

The workshop was designed to build capacity on development of nomination dossiers while keeping into consideration the knowledge of supporting UN/international policy

documents. Mr. Ashiq Ahmad Khan, Scientific Representative, EvK2CNR, Dr. Muhammad Rafique, Director General, PMNH, Mr. Raza Shah, Programme Officer, Natural Sciences Division, UNESCO, Dr. Masood Arshad, WWF, Dr. Khalid Mahmood, PMNH and Mr. Shafqat Abbas, Section Officer, Ministry of Climate Change were the main resource persons to organize this workshop. At the end of workshop, a joint declaration statement was unanimously adopted. The statement

elaborates that the process of establishing Indus Dolphin Biosphere Reserve may be under taken on priority basis. Other potential sites may be identified covering major ecological zones, including sites in inter- provincial areas and their nomination dossiers be prepared for designation as biosphere reserves by UNESCO. Work on the sites that were identified by the National MAB Committee in its meeting held on 2nd February, 2017 must be started and their dossiers be developed latest by 2018.



PMNH Scientists Explore Fauna & Flora of Chakwal's Scrub Forests

In pursuance of MoU with Sustainable Forest Management Project, Ministry of Climate Change for Baseline studies of forest ecosystems and training of Forest & Wildlife Staff at eight different localities in the country. A team of PMNH researchers comprised of Dr. Khalid Mahmood, Curator ZSD; Dr. Syed Aneel Ahmed Gilani, Associate Curator BSD; Muhammad Asif Khan, Associate Curator ZSD;

Rafaqat Masroor, Associate Curator ZSD, Mishkat Ullah, Research Associate ZSD carried out fieldwork to establish baseline for plants, butterflies, ground beetles, amphibians, reptiles, small mammals, large mammals and birds of three Scrub Forests of Chakwal Division, province of Punjab including Parerah Reserve Forest, Dil Jabba Game Reserve and Aara Reserve Forest on 17th-24th October 2017.

Two days capacity building session of the field staff (Range Officers, Inspector Wildlife, Block Officers, Forest Guards and Watchers Wildlife) of above mentioned Reserve Forests were conducted in Lari Shahnawaz, Chakwal. Twenty two participants attended theoretical and practical

sessions. Participants were oriented with hands on training on ecological importance of various animals and plants groups, different survey techniques/protocols and latest animals monitoring equipment e.g., Sherman traps, camera traps, malaise traps, pitfall trapping and GPS.

PMNH Geologist Explores about 23.03 to 5.3m Years Old Petrified Wood

PMNH geologist Khalid Ahmed Mirani has explored about 23.03 to 5.3 million years old petrified wood (Miocene) from Chjnji Formation, Nagri Formation Dhok Pathan and Manchhar Formation of Pakistan. Petrified wood is found in numerous locations around the world and represents the remains of ancient forests. Tree and plant fossils provide a window into past environments and help us understand earth's history and evolution. The samples are stored in the repository of PMNH as reference.



“The World of Birds” Diorama Opens at PMNH

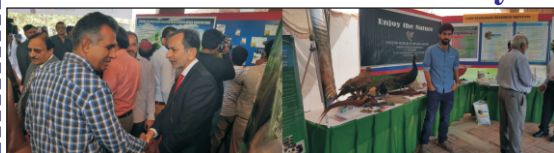
A state of the art new Exhibit “The World of Birds” has been completed in 3-month short time and opened for the public. This diorama starts with evolution of bird wings along with a 150 million old fossil of *Archaeopteryx lithographica* that is considered a link

between reptiles and birds. A large number of stuffed birds has been displayed on wall and in the 3-diorama. It has almost

150 beautiful birds of Pakistan, the biggest being the eight feet high Ostrich. Eggs of different bird species having various colors and sizes have also been exhibited on wave style stair case. A tree along with birds nest hanging from it branches is also the part of the diorama.



PMNH Sets Up Educational Stall on World Food Day 2017



PMNH set up educational stall on the occasion of “World Food Day 2017”

celebrations at the National Agriculture Research Centre (NARC), Islamabad. The theme for World Food Day for the year 2017 was “*Change the future of migration. Invest in food security and rural development.*” Various organizations including Ministry of National Food Security Research, Pakistan Agricultural Research Council (PARC), research institutes, FAO, World Food Programme (WFP), Oxfam, Pakistan Museum of Natural History (PMNH) joined hands to organize the event. Federal Minister for National Food Security and Research, Mr. Sikandar Hayat Khan Bosan was the chief guest at the ceremony. The PMNH educational stall was visited by many guests, scientists, and Federal Secretary for MNFS&R/ Ex-Secretary MoST, Mr. Fazal Abbas Maken. DG NARC Dr. Muhammad Azeem Khan thanked all the organizations who displayed educational stalls during the event.

18, 220 Persons Visit PMNH in October, 2017

A total 18,220 persons including 7,144 students, 4,444 general public, 57 foreigners and 6,575 children under five-year of age, visited the museum galleries during the month of October, 2017. Different schools, colleges and universities across the country visited PMNH galleries included Rah-e-Roshan School Haripur, Allied School Attock, Bait-ul-Hamd Primary School Chanab, WAPDA English Medium, School Attock, Muslim Hands School of Excellence Islamabad, Govt. Girls High School AJK, Pakistan Progressive Public High School Gujranwala, Allied School Faisalabad, Bab-ul-Islam School and College Faisalabad, Dar-e-Arqam School Sheikhupura, Govt. High School Mandi Bahaudin, Dawah Academy Islamabad, Ali Ghar Model School Alipur Chatha, Muslim Hands School Islamabad, Rehman Model School Gujranwala and Girls Elementary College AJK etc.



Two New Dinosaur's Addition At PMNH

Dinosaurs are a group of reptiles with a set of physical features that are different from those of all other reptiles. The word 'dinosaur' means 'terrible lizard' in Greek. It was coined in 1842 by Sir Richard Owen, an English Professor of Comparative Anatomy and Physiology. To educate visitors, students about these extinct creatures PMNH added two new dinosaurs in the gallery. These new dinosaurs' models are equipped with modern technology with sensors, sounds and movement. This gallery is now open for general visitors and attracts people during their visit to PMNH.



DG PMNH Participates in “International Snow Leopard Day 2017” Celebration

The International Snow Leopard Day was celebrated to renew the commitment of protecting and conserving the snow leopard, its habitat and the ecosystem. DG PMNH, Dr. Muhammad Rafique gave a speech on the occasion and highlighted the importance of conservation of this unique specie found in Pakistan. Federal Minister for Climate Change Mushahid Ullah Khan was the Chief Guest in the event. The Federal Secretary Ministry of Climate Change Syed Abu Ahmad Akif, Dr. Tore Nedrebo, Ambassador of Norway and other officials from government and non-government organizations were present at the event.



DG PMNH participates in International Informal Science Education Conference at Malaysia

Director General PMNH, Dr. Muhammad Rafique and Dr. Khalid Mehmood, Curator ZSD participated in “International Informal Science Education Conference” which was held from October 4-6, 2017 in Kuala Lumpur, Malaysia. The Integration of Science Centers with Natural History Museums for Imparting Informal Education international conference organized and run by the Institute for Learning Innovation.

Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Obaid Anwar

Seminar on Industry-Academia collaboration for Development of Knowledge & Economic Development

PASTIC Sub-Centre, Karachi, arranged a one-day PASTIC Seminar on "Promotion of Industry - Academia Collaboration for Knowledge and Economic Development" at Hyderabad on 4th October 2017, with the collaboration of Hyderabad Chamber of Commerce and Industry, Mehran University of Engineering & Technology, Jamshoro and ISRA University, Hyderabad. Mr. Muhammad Zubair, Governor Sindh, was the Chief Guest of the Seminar. He appreciated the efforts of PASTIC in organizing the seminar on such important



PSF Chairman Prof. Dr. Muhammad Ashraf addressing the participants of the seminar.

topic. Prof. Dr. Muhammad Ashraf Chairman PSF, Ms. Nageen Ainuddin Director. General PASTIC and Mr. Zaiuddin, Vice President Hyderabad Chamber of Commerce and Industry also

addressed the participants. Prof. Dr. Memon Mujeeb uddin Sehri, Vice chancellor Sindh Agriculture University, Tandojam, Dr. Fateh

Muhammad Burfat, Vice Chancellor University of Sindh. Prof. Dr. Hameedullah Pro-vice chancellor, ISRA university and Prof. Dr. Inamullah Bhatti, Director, ORIC Mehran University of Engineering & Technology, were the speakers of the Seminar. More than 500 participants from different universities & Industries attended the seminar. Shields were presented to the Resource Persons & Organizers, and certificates were presented to the participants.

ICT EXPO Launching Ceremony



Chairman PSF Dr. Muhammad Ashraf and Director General PASTIC, Ms. Nageen Ainuddin addressing the participants.

PASTIC organized a Launching Ceremony of "National Exhibition on IT & Computer Tools for Science & Education at Pakistan Science Foundation on 10 October, 2017. Main objectives of the national exhibition are to showcase the latest ICT technologies, business ideas along with true skills, innovative projects and products and connecting professionals with emerging youth. More than 150 participants are expected to display their innovations, technological achievements in the form of products or projects. The Expo will play a lead role to create awareness in

public, professionals and in particular the students by coupling innovative ideas and products from academia and industry.

The Chairman PSF Dr. Muhammad Ashraf was the Chief Guest. Ms. Nageen Ainuddin, Director General PASTIC gave an introduction of PASTIC, while Mr. Tahir Chaudhry gave an overview of the exhibition.

The ceremony was attended by major software, hardware and telecom companies, who supported the idea of the ICT Exhibition and hoped to participate by displaying their products & services and provide sponsorship for the event.

Training Workshop at Agriculture University Peshawar

"How to Write a Worth Publishing Research Paper"

In order to enhance the research capabilities and to inculcate modern thesis writing trends in researchers, PASTIC regularly organizes training workshop. Currently PASTIC organized a two-days training workshop on "How to write a worth publishing research paper" at Agriculture University Peshawar on October 18-19, 2017. A total of 67 participants including faculty members, M. Phil / PhD Scholars of The Agriculture University Peshawar & different S&T departments attended the workshop. Prof. Dr. Zahoor Swatii, Vice Chancellor and Prof. Dr. Iqbal Munir Director IBGE, graced the occasion as the Chief Guest.



Seminar on PASTIC S&T Services for Researchers

PASTIC Sub-Center Peshawar organized a one-day Seminar "PASTIC S&T Services for Researchers" at Department of Agriculture Chemistry, Agriculture University Peshawar, on September 25, 2017. Deputy Director PASTIC-Peshawar shared PASTIC/PSF S&T activities with the participants in detail through PASTIC web page & also having short practical brief on research methodology adopted by PASTIC through online data bases. A total 27 students attended the seminar and took keen interest in the presentation.



Glimpses of Seminar on PASTIC S&T Services at the Agriculture University Peshawar

Seminar at IRNUM Hospital Peshawar

“Causes, Symptoms & Early Treatment of Breast Cancer”

PASTIC Peshawar organized awareness seminars on 20th October 2017 at IRNUM Hospital Peshawar. 150 students participated along with their faculty members from Home Economics College, Department of Zoology and Centre of Biotechnology & Microbial, University of Peshawar attended the Seminar.

The Chief Guest of the seminar was Dean Khyber Medical College, Dr. Noor Amin, who talked about cancer and also shared his clinical experience with the students. Dr. M. Rauf Khattak (Director IRNUM) delivered the welcome address and talked about history of IRNUM hospital, facilities provided to the cancer patients from all round the KP and some areas of Punjab. Dr. Nabila Javed, Oncologist & Breast Cancer Specialist from IRNUM Hospital Peshawar, was the main Resource Person. She comprehensively talked about Breast Cancer.

Ms. Ghazala Ali Khan (Dy. Director PASTIC Peshawar) talked about PASTIC/PSF.



Dr. Noor Amin, Dean Khyber medical college addressing the participants at IRNUM Hospital Peshawar.

Awareness Seminars for the Promotion of PASTIC Services

PASTIC arranged following three awareness seminars in following Universities:

Sardar Bahadur Khan Women's University Quetta

The PASTIC Sub Center, Quetta arranged a one day seminar on PASTIC activities at Sardar Bahadur Khan Women's University Quetta on 12th October, 2017. During the seminar, Mr. Faisal Hilal, Asstt. Documentation Officer, PASTIC, delivered a presentation on PASTIC Information Services to the students, researchers and faculty members of the department.

Microbiology Department, University of Balochistan, Quetta

The PASTIC Sub Center, Quetta also arranged a one day seminar on PASTIC activities at Microbiology department, University of Balochistan, Quetta on October 25th, 2017. During the seminar, Mr. Faisal Hilal, Asstt. Documentation Officer, PASTIC, delivered a presentation on PASTIC Information Services to the students, researchers and faculty members of the department.

Biotechnology & Genetic Engineering, Agriculture University Peshawar on 24th October 2017

A one day awareness seminar at Institute of Biotechnology & Genetic Engineering (IBGE), Agriculture University Peshawar on 24th October 2017

PASTIC Services Stalls

Peshawar

- At Agriculture University Peshawar on 18-19th October.
- At IRNUM Hospital Peshawar on 20th October.
- At the Institute of Biotechnology & Genetic Engineering Peshawar on 24th October, 2017.



Students at PASTIC services stall at Agriculture University Peshawar

PASTIC regularly organizes its service stalls all over the country, wherein PASTIC publications are displayed and membership forms/pamphlets are distributed and the visitors are briefed about PASTIC services. In continuation of this regular activity following stalls were organized during the month of October.

Quetta

- At department of Chemistry, Sardar Bahadur Khan Women's University Quetta on 5th October, 2017.

3-day Conference “Computational Biology and Genomics conference

PASTIC Sub-Center Peshawar in collaboration with Higher Education Commission (HEC) and Hazara University Mansehra arranged a 3-day “Computational Biology and Genomics Conference” on September 27-29, 2017 at Hazara University Mansehra.

Almost 300 scientists and academicians from different perspectives and applications from all over the country attended the event and shared information and knowledge about Genomics in the form of PowerPoint presentation. While, young research scholars presented their research work

through Poster Presentations based on the submitted & approved abstracts by the conference selection committee. Besides that, scholars from all over the country were invited for keynote lectures as well.

During the event Deputy Director PASTIC delivered PASTIC S&T services presentation which was highly appreciated by the participants and organizers. PASTIC Services stall was also organized where student took keen interest and applied for bibliographic data regarding their research topics.

PASTIC Officer awarded Ph.D. Degree in Animal Sciences

Syed Aftab Hussain Shah, Senior Scientific Information Officer (BS-18), Pakistan Scientific & Technological Information Centre, Islamabad has been awarded Ph.D. Degree from Quaid-i-Azam University, Islamabad after Vice-Chancellor's approval on 24.08.2017. The notification vide No. CE/2017-3030, was issued on 28.08.2017 by Quaid-i-Azam University, Islamabad. The title of his research was “Improving quality of cryo-preserved buffalo bull spermatozoa.” Dr. Shah was supervised by Prof. Dr. Irfan Zia Qureshi and co-supervised by Dr. Syed Murtaza Hassan Andrabi, Principal Scientific Officer, ARGP, NARC, Islamabad.



Pakistan Science Foundation

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Pakistan Museum of Natural History

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PASTIC National Centre

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