



PSF NEWS

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From the Chairman



According to Peter Michael Senge, an American scientist and director of the Center for Organizational Learning at the MIT Sloan School of Management, "sharing knowledge is not about giving people something, or getting something from them. That is only valid for information sharing. Sharing knowledge occurs when people are genuinely interested in helping one another develop new capacities for action; it is about creating learning processes." To achieve this goal national and international conferences play a pivotal role as these activities provide an important channel for exchange of knowledge by

To be continued

40th Meeting of Board of Trustees (BoT)
BoT Calls for Increase in R&D Budget, Pooling of Funds with PSF

The 40th meeting of Pakistan Science Foundation (PSF) Board of Trustees (BoT) was held at PSF on March 18, 2013. PSF Chairman Prof. Dr. Manzoor H. Soomro presided over the Meeting attended by newly-constituted Board comprising eminent scientists including vice chancellors of the renowned public sector universities of the country. The President of Pakistan has re-constituted the 19-member BoT of PSF as per the Act of Parliament after expiry of the tenure of previous Board. The Board reviewed the performance of PSF in year 2012 and appreciated the Foundation programmes. The Chairman in a presentation apprised the Board members of



PSF Chairman Prof. Dr. Manzoor H. Soomro presides over 40th Meeting of Board of Trustees.

PSF performance. The members appreciated PSF performance specially its research funding, science popularization and R&D Industry Linkage programmes. The Board members said the role of PSF and mass media in promotion of science promotion is commendable. The Board called for closer cooperation of the Foundation

with mass media to popularize science at grass root level. The BoT emphasized the need for increase in R&D Budget pooled with PSF like US National Science Foundation (NSF). The board said pooling of R&D budget with PSF on US NSF pattern will help boost R&D activities according to the needs of the country. The Board appreciated the Ministry of Science and Technology role and its patronization of PSF science promotional activities. The BoT lauded PSF national and international collaboration programme to promote R&D and science promotion in the country and emphasized the need to further expand it.



A group photo of PSF BoT Members after 40th Meeting of the Board on March 18,

HIGHLIGHTS

Travelling Expo on Energy Kicks Off in Pakistan



PSF, Intel Join Hands to Promote Science Activities



NSLP BoG Increases Financial Powers of FMC



UNESCO to Help PMNH in Developing Virtual Tour



From the Chairman

genuinely interested people who assemble at these forums to present and discuss their work. Knowledge is embodied in people from different communities and networks and the road to it is via people, conversations, connections and relationships because knowledge surfaces through dialogue and by connecting to people those know or know who to contact and that is what the conferences serve.

Keeping in view the significance of these conferences in promotion and advancement of scientific and technological knowledge, PSF not only regularly arranges moots of scientists and other stakeholders but also encourages them to actively participate by facilitating them. The Foundation facilitates the research and development institutions in organizing such activities through grants and researchers participation by awarding travel grants.

The students and scientists should take maximum benefit from this opportunity. Relevant information and procedure to avail this facility can be obtained by visiting PSF website.

Quote of the Month

“Invention is a combination of brains and materials. The more brains you use, the less material you need.”

—Charles F. Kettering

International Travelling Expo “Energy for Sustainable World” Kicks Off in Pakistan

PSF in collaboration with Embassy of France in Pakistan and Centre Sciences-Orleans-France is arranging International Travelling Expos in Pakistan since 2008. In this regard, Expos on the themes of Mathematics, Environment, Biodiversity and Chemistry have already been held in various cities and towns of Pakistan. PSF has signed a MoU with Centre Science, Orleans-France for arranging and co-producing Expos in Pakistan.

This year, keeping in view the importance of Energy Issues, PSF obtained Travelling Expo titled “Energy, for a Sustainable World” from Centre Sciences, Orleans-France & partners for showcasing in Pakistan during March-April, 2013.

Islamabad: The Travelling Expo on Energy started its journey on March 1, 2013 with an exhibition at National Centre for Physics (NCP), Quaid-e-Azam University (QAU) Islamabad. PSF Chairman Prof. Dr. Manzoor H. Soomro inaugurated the expo by cutting a ribbon. The Expo was formally launched in Pakistan on March 7 at the same venue by Mir Changez Khan Jamali, Federal Minister for Science & Technology as the Chief Guest.

A large number of scientists, teachers and students were present on this occasion.

The Federal Minister called



PSF Chairman Prof. Dr. Manzoor H. Soomro cuts ribbon to inaugurate the International Travelling Expo on Energy at National Centre for Physics, Quaid-e-Azam University, Islamabad, on March 1, 2013.



Federal Minister for S&T Mir Changez Khan Jamali, French Ambassador Philippe Thiebaud, Secretary Ministry of S&T Mr. Akhlaq Ahmad Tarar, PSF Chairman Prof. Dr. Manzoor H. Soomro and NCP Board of Governors Chairman Prof. Dr. Ishfaq Ahmed visit the Expo at NCP, Quaid-e-Azam University.

upon the students to find solutions to issues like energy crisis. He said students' attention towards resolution of such issues could only be diverted through science popularization through Expos that pave way for national development. He lauded PSF and France Embassy's role in arranging the international travelling expos in Pakistan and assured his full support to continue such activities.



French Ambassador Philippe Thiebaud addresses the launching ceremony of the Expo.

French Ambassador Mr. Philippe Thiebaud said during Pakistani President Mr. Asif Ali Zardari's meeting with French President in Paris it was decided that Pakistan and France will enhance their cooperation in the field of higher education and energy sector.

Secretary Ministry of S&T Mr. Akhlaq Ahmad Tarar, PSF Chairman Prof. Dr. Manzoor H. Soomro, NCP Board of Governors Chairman Prof. Dr. Ishfaq Ahmed and NCP Director General Dr. Hamid Saleem addressed the launching ceremony and threw light on S&T Development in the country and Expos role in promotion of science.

The Expo continued here till March, 7 and 2,350 students from 12 schools visited this exhibition.



Federal Minister for S&T Mir Changez Khan Jamali, Secretary Ministry of S&T Mr. Akhlaq Ahmad Tarar, PSF Chairman Prof. Dr. Manzoor H. Soomro, NCP Board of Governors Chairman Prof. Dr. Ishfaq Ahmed and NCP Director General Dr. Hamid Saleem address the launching ceremony of Expo at NCP, Quaid-e-Azam University on March

Muzaffarbad: The next station of the expo was University of Azad Jammu & Kashmir (AJK), Muzaffarabad. PSF Member Science Dr. Khalil Ahmed Ibupoto along with Dr. Ghulam Ghous, Acting Vice Chancellor AJK University inaugurated the Expo here on March 11. AJK University Registrar Prof. Dr. Mohammad Rustam Khan and Controller of Examination Raja Muhammad Khurshid Khan, PSF Member Finance Haider Zaman Khatak and Principal Scientific Officer Dr. Naushaba Atta were also present. Some 200 students, faculty member of the university, researchers and media personnel participated in the opening ceremony.

The Chief Guest, Dr. Khalil Ahmed Ibupoto in his address stressed the importance of science popularization programmes for awareness among masses. AJK University Acting VC Dr. Ghulam Ghous appreciated the efforts of PSF and French Embassy in Pakistan. The worthy Chief Guest, Mr. Mian Abdul Waheed also greatly appreciated the efforts of PSF for science promotion. He assured his full cooperation in this national cause for popularization and promotion of science.

In Muzaffarabad 4,280 students from 16 schools along with their teachers visited the 5-day exhibition.

The closing of the expo at AJK University was held on March 15. Mian Abdul Waheed Advocate, Minister for Education (Schools), AJK, was

Peshawar: The Expo on Energy for a sustainable world was held at University of Engineering & Technology Peshawar. This expo was inaugurated by Sayyad Imtiaz Hussain Gillani,



Students visit International Travelling Expo "Energy for a Sustainable World" at NCP, Quaid-e-Azam University.

Vice Chancellor (VC), Khyber (KPUET), Peshawar, as chief guest of the expo was inaugurated by Sayyad Imtiaz Hussain Gillani, Director



AJK University Acting VC Dr. Ghulam Ghous, PSF Member Science Dr. Khalil Ahmed Ibupoto, Member Finance Mr. Haider Zaman Khatak and others visit the Expo.



The Chief Guest, Mr. Mian Abdul Waheed, AJK Minister for Education is briefed about Expo at AJK University, Muzaffarabad.



Students visit the Expo at AJK University, Muzaffarabad.

P&D, PSF and Mr. Abdul Rauf Agha, SSO/Coordinator and Mr. Sher Ali Baz, Assistant Director, Science Caravan Unit, briefed the guests about Expo and efforts of PSF to promote science. The VC appreciated the efforts of PSF. A large number of students from different faculties of the University visited the exhibition. Dr. Frederic Bessat, French Counselor was the Chief Guest at closing ceremony of the Expo at KPUET on March 22. Dr. Khalil Ahmed Ibupoto, Member Science, PSF and Mr. Khalid Islam, Director General, Pakistan Council for Renewable Energy & Technologies (PCRET) were also present. Dr. Najeeb Ullah from UET gave a presentation on energy and the Chief Guest expressed his views about renewable energy. Dr. Bessat said the French government will support



KPUET VC Sayyed Intiaz Hussain Gilani inaugurates the Expo at Peshawar.



Dr. Frederic Basat, French Consul visits the Expo at KPUET, Peshawar.



Prof. Muhammad Imran, Chairman, Swat Board of Intermediate and Secondary Education inaugurates the Expo in Mingora, Swat.

Pakistan government in generation of energy. Muhammad Imran, Chairman, Swat Board of Intermediate and Secondary Education on March 25 at Swat Public School & College, Rahim Abad, Mingora, Swat. A large number of students, teachers, high-ups from education and media personnel were present on this occasion. Mr. Mahboob Khan, PSO, PSF, briefed the guests about the objectives of the Expo that concluded here on March 30.

PSF, Intel Pakistan Join Hands to Promote Science Activities in Country

Pakistan Science Foundation (PSF) and Intel Pakistan joined hands to promote science activities in the country by signing a Memorandum of Understanding at PSF on March 5, 2013. PSF Chairman Prof. Dr. Manzoor H. Soomro and Intel Pakistan Country Manager Mr. Naveed Siraj signed a MoU on behalf of their respective organizations. Secretary Ministry of Science and Technology (MoST) Mr.

Akhlaq Ahmad Tarar was the Chief Guest who witnessed the signing ceremony to encourage both the organizations in their science promotional pursuits. A large number of scientists from different organizations and media persons were present on this occasion. Under the MoU, both the organizations will work together to implement the Intel Science Fairs Program all across Pakistan for the betterment of economic



PSF Chairman Prof. Dr. Manzoor H. Soomro and Intel Pakistan Country Manager Mr. Naveed Siraj sign the MoU on behalf of their respective organizations, while Secretary MoST Mr. Akhlaq Ahmad Tarar witnesses the signing of MoU.

condition of the masses by and popularization of research creating awareness, promoting in sciences and mathematics

through mutual collaborative activities, aiming to infuse a stronger spirit of discovery in schoolchildren and to increase their interest in science and technology. Science fair will help to achieve this purpose, thus strengthening science education at pre-college level. Speaking on this occasion, Mr. Tarar said PSF-Intel Pakistan collaboration is a welcoming example of public-private partnership for a national cause to achieve the goals of science and technology promotion in the country. He lauded Intel Pakistan and PSF role in betterment of the society through science promotional activities among students. He

thanked both the organizations and assured full support of the Ministry of Science and Technology in their science education activities. The Secretary said it is a very happy moment that Intel Pakistan, a private sector organization as a corporate social responsibility has extended a hand for jointly executing educational activities program already being undertaken by PSF.

He also spoke on PSF's International Science Expo programme being carried on in collaboration with Embassy of France. He also highlighted MoST's entrepreneurship program and Research Commercialization Cell



Intel Pakistan Country Manager Mr. Naveed Siraj and PSF Chairman Prof. Dr. Manzoor H. Soomro award shields to jury members of Intel Science Fair 2013.



Secretary MoST Mr. Akhlaq Ahmad Tarar, PSF Chairman Prof. Dr. Manzoor H. Soomro, Intel Pakistan Country Manager Mr. Naveed Siraj, PSF Member Science Dr. Khalil Ibupoto and Chief Scientific Officer Dr. Ata-ul-Mohsim at the MoU signing ceremony at PSF.

activities.

PSF Chairman Prof. Dr. Manzoor H. Soomro said Intel and PSF are working together for the past many years and the Foundation is helping Intel in science fairs by providing science experts as judges of the fairs.

Intel Country Manager Mr. Naveed Siraj said though Intel is a private sector entity their education initiative is focused on public sector educational institutions. He said PSF always encouraged and patronized their activities by helping through different means.

Khadija Bashir, Project Manager, Education Initiative,

Intel Pakistan also spoke on the occasion. She said Intel Pakistan is a subsidiary company of Intel Corporation, founded in 1968 to build semiconductor memory products. Intel has been developing technology enabling the computer and internet revolution that has changed the world. Intel Pakistan as a social corporate responsibility also undertakes educational activities including science competitions and science fairs in Pakistan.

Later, the Chief Guest awarded shields to scientists who performed duty as judges of the Intel Science Fair.

Gift from Chinese kid

Schools Bags Distributed among Deserving Children

Pakistan Science Foundation (PSF) distributed school bags among deserving students of federal government schools on March 18-19, 2013.

These bags were donated to PSF by eight-year-old Ximin Li, a Germany-based Chinese child, who along with his parents Mr and Mrs Longgang (Luke) Li, travelled to Pakistan for this noble cause. Moved by an appeal of a child through a TV channel that he wanted to go to school but have no means to buy school bag and books, Master Li decided to raise funds for Pakistani poor children to help them go to school for education. He raised funds by playing violin on the streets and then contacted Pakistan Embassy in China for distribution of 1,000 school bags. The Embassy referred



Chinese kid and his parents present school bags donation to PSF Chairman Prof. Dr. Manzoor H. Soomro for distribution among deserving children.

them to PSF for this task. PSF arranged two ceremonies, one at a school in Chak Shahzad and the other at a school in Model Town Humak to give bags to poor students of these areas. The Chinese kid and his parents, PSF Member Science Dr. Khalil Ahmed Ibupoto, Principal Scientific Officer Dr. Naushaba Ata and other senior officers were present at these



Master Ximin Li and his father along with PSF Member Science Dr. Khalil Ahmed Ibupoto distributes school bags among deserving students at IMCG Humak, Islamabad.

occasions.

Speaking at the bags distribution ceremony at the school in Humak, Dr. Ibupoto called upon Pakistan philanthropists to follow the example set by the Chinese boy. He said the bags contain all the educational material needed by a nursery level child.

PSF has also added disaster management information kits

donated by UNESCO for children to PSF. These kits are puzzle games as to how to respond in different disasters and very educative for students. Parents of the child also expressed their feelings. They said giving this gift of bags to Pakistani children is a moment of great pleasure and satisfaction for them. "We are proud of our child that how he

feels about his Pakistani brothers and sisters,” they said. While speaking to the Chinese guests at PSF, the Foundation Chairman, Prof. Dr. Manzoor H. Soomro, said the donation by Chinese kid reflects the bond of Pak-China Friendship which is getting strengthened with every passing day not only at government level also at people to people level. He said this initiative will inspire many others to help the poor children anywhere in the world.



After getting school bags, students pose for a group photo with Chinese kid, his parents and PSF Member Science Dr. Khalil Iubpto and other officials.

NSLP Board of Governors (BoG) Increases Financial Powers of FMC



Federal Minister for S&T Mir Changez Khan Jamali presides over NSLP Board of Governors 4th Meeting at PSF.

The 4th meeting of NSLP Board of Governors (BoG) was held on March 14, 2013 at PSF. The meeting was chaired by Mir Changez Khan Jamali, Federal Minister for Science and Technology, who is Chairman of the BoG, and Co-Chaired by Mr. Akhlaq Ahmed Tarar,

Federal Secretary, Ministry of Science and Technology. The meeting was attended by the esteemed members hailing from different national ministries. Chairman, PSF/Secretary BoG, Prof. Dr. Manzoor H. Soomro briefed the members about achievements and working of

NSLP Endowment Fund. The Board confirmed minutes of the 3rd meeting of BoG held on 10-05-2013 and appreciated the progress of the Fund. Moreover, BoG enhanced the financial powers of Fund Management Committee from 4.0 million to 8.0 million per project.

Pakistan Represented at Workshop in Sydney on Primary Connections Programme

PSF Chairman Prof. Dr. Manzoor H. Soomro and Prof. Dr. Zabta Khan Shinwari from Quaid-e-Azam University represented Pakistan at “Primary Connections: Collaboration with Asia Workshop” held in Sydney, Australia, on March 25-27, 2013.

“Primary Connections: Linking science with literacy” award winning professional learning program, is an innovative approach to teaching and



PSF Chairman Prof. Dr. Manzoor H. Soomro participates in the workshop.

learning, which aims to enhance primary school teachers' confidence and competence for teaching science.

Australian Academy of Science in partnership with the former

Federation of Asian Scientific Academies and Societies (FASAS) and Association of Academies of Science in Asia (AASA) and the newly merged Association of Academies and Societies of Sciences in Asia

2nd National Women at Work Festival

Women Role in Science Projected

PSF participated in 2nd National Women at Work Festival held at F-9 Park, Islamabad on March 6-10, 2013 to highlight achievements of the Foundation in the field of Science, especially by Women scientists. PSF and its subsidiary organizations Pakistan Museum of Natural History (PMNH) and Pakistan Scientific and Technological Information Centre (PASTIC) established their stalls during the 5-day Festival. A large number of working women and their families visited these stalls where they were briefed on PSF, PMNH and PASTIC achievements and services in promotion and popularization of science in the country.



Sr. Scientific Information Officer Ms. Kausar Sohail briefs a visitor about the PASTIC services during 2nd National Women at Work Festival.

(AASSA), is conducting the workshop funded by the Inter Academy Panel.

The three-day workshop was intended for trainers and decision-makers of education systems from the Asian region to help them become familiar with the Primary Connections program and evaluate its applicability for their country. Delegates from developing countries participated in the workshop and shared the learning from the Primary

Connections Programme. The participants also discussed partnerships to investigate adaptation of the inquiry-based primary Connections Approach in the context of other countries.

Dr. Soomro also held meeting with Australian Academy of Sciences and discussed Primary Connections for strengthening the inquiry-based science education programme in Pakistan. It is pertinent to mention that PSF in collaboration with Academy of Sciences France is already running inquiry-based science education programme "la main la pate" (doing by hands) in Pakistan.

PSF Participates in Pak-China Business Forum Industrial Exhibition



Dr. Khalil Ahmed Ibupoto, Member Science, PSF, Dr. Ata-ul-Mohsin, Secretary (Acting) and Prof. Dr. Muhammad Akram Shaikh, DG, PASTIC visit the Exhibition

PSF participated in 4-day Pak-China Business Forum Industrial Exhibition held on 23-26 March, 2013 at Pak-China Friendship Center, Islamabad. The Foundation and its subsidiary organizations Pakistan Museum of Natural History (PMNH) and Pakistan Scientific and Technological Information Centre (PASTIC) set up their stalls in the Exhibition to promote science and disseminate information on their services. These stalls attracted a large number of general public along with children and students.

USDA Team Expresses Satisfaction over NSLP Endowment Fund's Progress



PSF Chairman Dr. Manzoor H. Soomro briefs the USDA delegation about the working of NSLP Endowment Fund.

United States Department of Agriculture (USDA), Washington DC and Mr. Rashid Y. Raja, Agriculture comprising Ms. Amy Frietas, Marketing Specialist, Foreign Agricultural Services, US

Embassy, Islamabad visited the Foundation on March 15, 2013. During the visit Chairman PSF/CE, NSLP, Prof. Dr. Manzoor H. Soomro and Principal Scientific Officer, NSLP, Dr. Mirza Habib Ali, briefed the delegation about the progress of the NSLP Endowment Fund and the overall working of PSF. The delegation expressed its satisfaction over progress of the Endowment Fund.

NSLP Monitoring Team Visits ongoing Research Projects in Faisalabad

Natural Sciences Linkage Programme (NSLP) is funding 51 research projects across the country of which 14 projects are running successfully in three different institutes of Faisalabad. Of them three projects are being executed by Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad, one by Nuclear Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad and 10 by the University of Agriculture, Faisalabad.

PSF-NSLP team and members of PSF technical committees regularly conduct on-site monitoring of NSLP funded projects. Dr. Mirza Habib Ali, Principal Scientific Officer and Mr. Nasir M. Khokar, SSO visited NIAB, NIBGE and University of Agriculture,



Prof. Dr. Muhammad Ashrad and Dr. Mirza Habib Ali visit laboratory to monitor ongoing project on rice improvement at NIAB.

Faisalabad on March 22-23, NIAB were also part of the 2013, to evaluate technical monitoring team. During these visits the projects pertaining to projects execution, were monitored onsite and Dr. Javed Akhtar, Director, NIAB / member BoG, NSLP, Prof. Dr. Muhammad Ashrad, with Principal Investigators. The team observed that all the projects are running smoothly without any major hurdle.



PSF Monitoring team visits the field trials of ongoing project on Tomato breeding at NIAB, Faisalabad



PSF Monitoring team visits the farm trails on goat nutrition at University of Agriculture, Faisalabad.

PSF, French Embassy to Expand Collaborative Activities

French Ambassador Dr. Frederic Bessat held a meeting with PSF Chairman Prof. Dr. Manzoor H. Soomro on March 21, 2013 at PSF. PSF Member will expand collaboration in Science Dr. Khalil Ahmed Ibupoto, Principal Scientific Officer Dr. Naushaba Ata and Senior Scientific Officer Mr. Abdul Rauf attended the meeting, in which the French Embassy agreed upon to extend the mutual collaborative activities with PSF for training programmes and scientific events intended to promote and popularize in Pakistan. PSF and the French Embassy in Pakistan will expand collaboration in scientific communication training techniques, extension of the programme “La main a la pate”, expert mission and promotion of French science and International Traveling Expo on Energy and competitions on the theme of energy.



French Counselor Dr. Frederic Bessat and PSF Chairman Prof. Dr. Manzoor H. Soomro shake hands after the meeting.

Quaid-e-Awam University of Engineering, Science and Technology (QUEST) Nawabshah Convocation

PSF Chairman Prof. Dr. Manzoor H. Soomro was Chief Guest at 5th Convocation of Quaid-e-Awam University of Engineering, Science and Technology (QUEST) Nawabshah, held on March 9, 2013. He along with Vice Chancellor (VC) of QUEST awarded Gold Medals to position holders and Degrees to Graduating students.

Addressing on the occasion, the Chairman congratulated the students on successfully completing their studies and becoming ready to enter practical life. He urged them to play an active role in national development through optimum use of their professional abilities and knowledge gained at the

University. He said establishment of QUEST was a milestone in development of science and technology not only in the Sindh province but the entire country. He also congratulated the faculty members for preparing a lot of excellent engineers and technologists every year.



PSF Chairman Prof. Dr. Manzoor H. Soomro addresses at the 5th Convocation of Quaid-e-Awam University of Engineering, Science and Technology (QUEST) Nawabshah.



PSF Chairman Prof. Dr. Manzoor H. Soomro awards degree to a graduate at 5th Convocation of Quaid-e-Awam University of Engineering, Science and Technology (QUEST) Nawabshah. The QUEST VC is also present.

PSF Supports GIKIEST in Holding 14th All Pakistan Science Fair 2013

Pakistan Science Foundation supports science related activities in the country through technical expertise and financial assistance to various organizations. The Foundation granted a handsome amount to Ghulam Ishaq Khan Institute of Engineering, Science & Technology (GIKIEST), Topi for organizing “14th All Pakistan Science Fair 2013”. The grant was exclusively meant for Medals and Shields awarded during the event to encourage and motivate young scientists.

Important Meetings

PSF Chairman Prof. Dr. Manzoor H. Soomro attended/participated in following important meetings/events in the month of March 2013:

- S&T Minister Mir Changez Khan Jamali's meeting with the heads of S&T organization at MoST on March 12.
- HEJ Executive Board Meeting on March 19.
- PSF Technical Committee on Environment Sciences' Meeting on March 19.
- Meeting regarding MAB Programme with UNESCO officials on March 19.
- PSF Travel Grants Award Committee Meeting on March 21.

Pakistan Museum of Natural History (PMNH)

Editor: Dr. Saleem Ahmad, Curator

Visitors Get Audio Commentary Equipment Facility at Museum

UNESCO to Help PMNH in Developing Online Virtual Tour



UNESCO Country Director Dr. Kozue Kay Nagata inaugurates the Audio Commentary Equipment donated by UNESCO. PSF Chairman Prof. Dr. Manzoor H. Soomro, PMNH DG Dr. Hassan Wasim Afzal and PSF Member Science Dr. Khalil Ibupoto are also present.



UNESCO Country Director Dr. Kozue Kay Nagata, PSF Chairman Prof. Dr. Manzoor H. Soomro and PMNH Director General Mr. Hasan Wasim Afzal listen commentary after launching of Audio Commentary Equipment donated by UNESCO to PMNH.

UNESCO donated Audio Commentary Equipments to facilitate the Museum visitors during their visit and provide live commentary in Urdu and English about the different galleries. The audio equipment was inaugurated by Dr. Kozue Kay Nagata, UNESCO Country Director on March, 13, as the Chief Guest. PSF Chairman Prof. Dr. Manzoor H. Soomro and PMNH DG Mr. Hassan Wasim Afzal were also present on this occasion.

The UNESCO Country Director cut the ribbon to launch Audio Commentary Equipment.

The PMNH DG said we are grateful to UNESCO for its support and look forward for its continued patronage in the



UNESCO Country Director Dr. Kozue Kay Nagata, PSF Chairman Prof. Dr. Manzoor H. Soomro, PMNH Director General Mr. Hasan Waseem Afzal and Deputy Director General Mr. Akhter Javed at the launching ceremony of Audio Commentary Equipment at PMNH on March 13.

years to come.

The PSF Chairman stressed the need for developing collaboration with other organizations in order to achieve common goals. He said PMNH is focal point of UNESCO's Man and Biosphere (MAB) programme in Pakistan

and MAB committee has been constituted to implement this programme in Pakistan.

Dr. Nagata said UNESCO will help PMNH in developing its online virtual tour so that the people of the entire world, especially the researchers and students could benefit from its

facilities. She said UNESCO will also help the Museum in production of documentary on whale shark specimen stuffing and exhibition process as well as digitization of the PMNH reference collection. She said although PMNH is small but is unique in terms of its collection, especially of fossils that reveal natural history of millions years past. The UNESCO Country Director said though the donation of commentary equipment is a small contribution but it will help visitors a lot in understanding the exhibits during their visit to the Museum. The equipment will make museum more scientific and dynamic, she said, adding, launching the commentary equipment at PMNH is a pilot project and later this facility will also be replicated in other museums of Pakistan.

PMNH Deputy DG Mr. Akhtar Javed also addressed the launching ceremony and thanked UNESCO, MoST and PSF for their continued support to Museum in research and educational activities.



UNESCO Country Director Dr. Kozue Kay Nagata, PSF Chairman Prof. Dr. Manzoor H. Soomro, PMNH Director General Mr. Hasan Waseem Afzal and Deputy Director General Mr. Akhter Javed address the launching ceremony of Audio Commentary Equipment at PMNH on March 13.

PMNH Sets Up Educational Stall at Kharian Cantonment

Kharian Cantonment Board (KCB) celebrates Spring Festival focusing on Flower Show and Landscaping annually to welcome the spring season every year. This year the event was held from March 27-29 and upon the KCB request PMNH participated in it by establishing an educational stall during the activity. Many educational institutions and different departments under the control of Kharian Garrison arranged beautiful stalls and landscapes to highlight the importance of flowers.

PMNH exhibited a variety of medicinal and edible mushrooms, flowering plants, stuffed animals and samples of gems, crystals and rocks. The PMNH team comprising Dr. Muhammad Ismail, Mr. Muhammad Ashfaq and Mr. Ghaffar Hussain facilitated a large number of visitors who took keen interest in the exhibited specimens and answered the queries of general public including the students.

The chief guest, Garrison Commander Major General Muhammad Abid Nazir, Cantonment Executive Officer Mr. Abdul Ghaffar along with other guests visited the PMNH stall. The chief guest praised the efforts of PMNH in providing the



The chief guest, Major General Muhammad Abid Nazir (Garrison Commander) and Mr. Abdul Ghaffar, Cantonment Executive Officer, visiting the PMNH stall in Kharian Spring Festival.

informal education on natural history. He also thanked the officials of PMNH for being there and hoped that PMNH will participate in this event in future too.

PMNH Gets Membership of International Council of Museums

PMNH has now become the part of world museums society by joining the International Council of Museum (ICOM) as an Institutional Member. ICOM is a network of 20,000 museums, 30,000 experts in various fields and 171 active National Committees around the world. PMNH has received Institutional Membership Cards, having the registration No. 16151. Membership cards will provide opportunity to PMNH personnel to visit museums around the world either free of charge or at discounted rate and may get a privileged access to their permanent collections and/or temporary exhibitions.

M. Akhtar Javed Takes Charge as PMNH Deputy DG

Mr. Muhammad Akhtar Javed, Senior Operational Manager (BS-20), being the senior most officer in his scale was assigned to act as Deputy Director General, PMNH by the PSF Executive Committee. As the in-house second-in-command, he is assisting the Director General in coordination, Planning and Development and general administration, research activities of PMNH.



PMNH Research Papers Get Place in Geology Book Published by University of Columbia

Pakistan Museum of Natural History (PMNH) geologists have published the following research papers in the book entitled "Fossil Mammal of Asia: Neogene Biostratigraphy and Chronology" edited by Xiamong Wang, L. J. Flynn and Mikael Fortelius.

The book has been published by the University of Columbia Press, USA. ISBN: 9780231150125

Flynn, L. J.; Lindsay, E. H.; Pilbeam, D.; Raza, S. M.; Morgan, M. E.; Barry, J. C.; Badgley, C. E.; Behrensmeyer, A. K.; Cheema, I. U.; **Rajpar, A. R.** and Neil D. Opdyke. "The Siwaliks and Neogene

Evolutionary Biology in South Asia".

Barry, J. C.; Behrensmeyer, A. K.; Badgley, C. E.; Flynn, L. J.; Peltonen, H.; Cheema, I. U.; Pilbeam, D.; Lindsay, E. H.; Raza, S. M.; **Rajpar, A. R.** and Michele E. Morgan. "The Neogene Siwaliks of the Potwar Plateau, Pakistan".

Antoine, P. O.; Metais, G.; Orliac, M. J.; Crochet, J.-Y.; Flynn, L. J.; Marivaux, L.; **Rajpar, A. R.**; **Roohi, G.** and Jean-Loop Welcomme. "Mammalian Neogene Biostratigraphy of the Sulaiman Province, Pakistan."

PMNH Helps Arrange Moot on Climate Change and Bio Resources

Federal Urdu University for Arts, GeoLink Pvt. Ltd., Karachi University, Science and Technology (FUUAST), PMNH, EMPOWER, and SCCDA Karachi, conducted a two days (Sindh Coastal Community conference on Climate Change and Bio Development Authority). The main resources of Pakistan on March 21-22, purpose of the conference was to assess 2013. The collaborators included the status of climate change and its

effect on the bio resources of Pakistan. Dr. S. Aneel Gilani, Associate Curator, Botanical Sciences Division, PMNH presented his talk on the conservation status of the tree species in Ayubia National Park.

Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Syed Aftab Hussain Shah

PASTIC Provides S&T Information Services to Researchers

During the month of March 2013, PASTIC arranged Services Stalls in Karachi, Peshawar and Faisalabad to provide students and researchers the S&T information services.

PASTIC Sub Centre, Karachi arranged a PASTIC services stall on March 22, 2013 during Debate Competition organized by the Department of Civil Engineering, NED University of Technology, Karachi. A large number of researchers/faculty members visited PASTIC stall.

PASTIC Sub-Center, Peshawar, organized a 5-day services stall at University of Engineering and Technology (UET) Peshawar during the "International Expo on Energy for the Sustainable World"



Mr. Muhammad Khalid, Deputy Director, PASTIC Sub Centre, Karachi responding to students about queries regarding PASTIC Services.



Ms. Ghazala Yasmeen Malik, Deputy Director (STI), PASTIC Sub-Centre, Peshawar, briefs the guests about the PASTIC Services during the event.



organized by PSF from Vice Chancellor (VC) Engr. 70 got registered as free Intiaz Hussain Gillani, who members of PASTIC. Ten was the Chief Guest of the students submitted their inaugural session of the Expo, requests for literature Dr. Darakhshanda Kokub, search/survey. PASTIC PSF's Director P&D and all Services brochures were other guests visited the stall. distributed among all visitors. The VC showed keen interest in The students were encouraged the ongoing activities of to participate in Technological PASTIC Peshawar. Innovation Summit scheduled Engineering students from all for April 9, 2013 at University disciplines visited the stall and of the Punjab, Lahore.



A glimpse of PASTIC Services Stall at ORIC, Government College University, Faisalabad.

PASTIC arranged a services stall at Faculty of Agriculture, University of Agriculture, Faisalabad, on March 12, 2013. During this activity, 55 researchers/students and senior faculty members visited the stall and submitted their requests for literature search/survey.

The second one-day PASTIC Services stall was organized at Office of Research, Innovation & Commercialization (ORIC) Govt. College University, Faisalabad, on March 20. Sixty researchers/students and senior faculty members visited the stall and submitted their topics for literature search.



Mr. Muhammad Husnain, Deputy Director (STI), PASTIC Sub-Centre, Faisalabad briefs students about the PASTIC services.

PASTIC Conducts Training on “e-Government and Organizational Development”



A group photo of participants of PMI training course along with resource person Mr. Saifullah Azim, Senior System Analyst, PASTIC.

Mr. Saifullah Azim, Senior System Analyst, Pakistan Scientific and Technological Information Centre (PASTIC) conducted a computer training course on “E-Government and Organizational Development” at Pakistan Manpower Institute (PMI), Islamabad on March 25-29.

Thirty-five professionals from different institutes across the country participated in the training course in which they were imparted training on use of e-government soft-wares. The participants took active part in the training course.

S&T Information Services Promotional Activities Expedited

PASTIC has expedited its activities to promote S&T Information Services of the organization for playing its role in development of science in the country. In this context Mr. Ali Raza Khan, Deputy Director (STI), PASTIC Sub-Centre, Lahore held meetings with a number of important officials related to S&T organizations for promotion of Information Services and Technological Innovation Summit, 2013 scheduled in Lahore in April, 2013. These officials included Prof. Dr. Jamil Ahmed, Director ORIC, University of Punjab, Prof. Dr. Muhammad Saleem Haider, Director, Institute of Agriculture Sciences, Dr. Shahzad Alam, Director General, PCSIR Laboratories Complex, Prof. Dr. Ikram-Ul-Haq, Director, Industrial Research and Biotechnology, Government College, University Lahore, Prof. Dr. Islam, Dean Faculty of Sciences & Technologies, Government College University Lahore, Prof. Dr. Muhammad Zakria Butt, Director Research Innovation & Commercialization GCU Lahore, Prof. Dr. Mansoor-Ud-Din Ahmad, Director, ORIC, University of Animal & Veterinary Sciences, Lahore, Prof. Dr. Farkhanda Manzoor, Lahore College for Women University, Lahore, Mr. Tariq Ahmed Chaudhry, General Manager, Pakistan Industrial Technical Assistance Centre (PITAC), Director General Atomic Energy Commission, Managing Director, Technological Commercialization, Dr. Abdus Satar Abbasi, Head Department of Management Sciences, COMSATS Institute of Information Technology. Dr. Muhammad Iqbal, T.I. Director General Centre for Applied Molecular Biology, Prof. Dr. Tayab Husnain, Director Centre of Excellence in Molecular Biology, Eng. Zamir Ahmed Soomro, Regional Director, Pakistan Council of Research in Water Resources, Prof. Dr. Tariq Zahid Butt, Dean Faculty of Engineering and Technology, Dr. Ayyaz Mansoor, Director, Higher Energy Physics, Prof. Dr. Khalid, Director, Chemical & Technologies, Prof. Dr. Farid A. Malik, Professor School of Management, Foreman Christian College (FCCU), Dr. Kausar Abdulla Malik, HI, SI, TI, Department of Biological Sciences, (FCCU) and Prof. Dr. Ghulam Rasool, Director, School of Biotechnology, University of Punjab, Lahore.

Mr. Muhammad Husnain, Deputy Director (STI), PASTIC Sub-Centre, Faisalabad held meetings with Prof. Dr. Asif Ali Khan, Director, ORIC-UAF, Faisalabad, Prof. Dr. Muhammad Iqbal Dean Faculty of Agriculture Engineering & Technology-UAF, Faisalabad, Dr. Farhat Abbas, Director ORIC, Govt. College University, Faisalabad and Rector, Dean, National Textile University (NTU), Faisalabad.

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