

Dr. Khalil Ahmed Ibupoto
Chairman
Pakistan Science Foundation

M. Javed Iqbal
Science Promotion Officer



PSF NEWS

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From the Chairman



In several places, the Glorious Qur'an uses inquiring phrases such as "do they not think" or "do they not ponder" and asks the Qur'anic reader "to enquire about certain statements to those who have knowledge and expertise". The approach of the Qur'an is to invite to reason, logic, rationality and intelligence. The Qur'an inspires man to observe, experience, and investigate. In short, the spirit of the Qur'an, unlike other religions, is

Continued on page 2

International Traveling Expo on Water "Water at the Heart of Science" Launched

Pakistan Science Foundation (PSF) in collaboration with Embassy of France in Pakistan and Centre Sciences, Orleans, France started arranging International Travelling Expos in 2008. In this regard, Expos on the themes of Mathematics, Environment, Biodiversity, Chemistry and Energy have already been held in 19 cities/towns of the country catching attention of more than 165,000 visitors. PSF has also inked MoU with Centre Science, Orleans-France for arranging and co-producing Expos in Pakistan.



Minister of State for Parliamentary Affairs Sheikh Aftab Ahmed and French Ambassador H.E. Philippe THIEBAUD cut the ribbon at launch of the Expo at PSF. MoST Additional Secretary Mr. Tahir Maqsood, PMAS-AAUR VC Prof. Dr. Rai Niaz Ahmed and Chairman PSF Prof. Dr. Khalil Ahmed Ibupoto are also present.

This year PSF organized International Traveling Expo on

Water titled "Water at the Heart of Science". In this regard French Expert/Master Trainer, Mr. Guy Antoine from Centre Sciences-CCSTI, Orleans, France visited Pakistan and conducted training sessions on April 29-30, 2014 at PSF. In the training sessions teachers from Federal Directorate of Education schools and PSF's Officers and officials participated.

Islamabad: The Launching Ceremony of the Expo in Pakistan was held on 6th May, 2014 at PSF Auditorium. Minister of State for



Minister of State for Parliamentary Affairs Mr. Sheikh Aftab Ahmed, French Ambassador H.E. Mr. Philippe THIEBAUD, MoST Additional Secretary Mr. Tahir Maqsood, Vice Chancellor PMAS Arid Agriculture, Rawalpindi, Dr. Rai Niaz Ahmed and Chairman PSF Prof. Dr. Khalil Ahmed Ibupoto visit the Expo.

Pakistani Students Shine in ISEF 2014 	Agriculture Challenges Highlighted 	International Day for Biological Diversity 	PMNH and University of Sindh MoU
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From the Chairman

scientific.

So the scientists and researchers including PSF ones, while doing their research and performing their duties are one or the other also acting upon the sayings of the Holy Quran. PSF has initiated Inquiry Based Science Education (IBSE) approach in some schools of Islamabad as a pilot project in collaboration with LAMAP Foundation & Academy of Science, Paris; Federal Directorate of Education and Embassy of France, Islamabad. More than 100 Teachers have so far been participated in International Training workshops and Review meetings, a number of them are acting as Master Trainers. PSF is trying to expand the program to other parts of the country also.

I am quite hopeful that the IBSE, on one hand will inculcate scientific thinking as well as reasoning skills among the young minds of students and on the other it will surely prevent them from the so called extremism in the name of religion.

Quote of the Month

Science investigates; religion interprets. Science gives man knowledge, which is power; religion gives man wisdom, which is control. Science deals mainly with facts; religion deals mainly with values. The two are not rivals.

- Martin Luther King Jr.



Minister of State Sheikh Aftab Ahmed, French Ambassador Philippe THIEBAUD, MoST Additional Secretary Mr. Tahir Maqsood PMAS-AAUR VC Prof. Dr. Rai Niaz Ahmed and PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto address the launching ceremony.

Parliamentary Affairs, Mr. Sheikh Aftab Ahmed, French Ambassador H.E. Mr. Philippe THIEBAUD, Additional Secretary Mr. Tahir Maqsood, Vice Chancellor PMAS Arid Agriculture University Rawalpindi (AAUR), Dr. Rai Niaz Ahmed, Chairman PSF Prof. Dr. Khalil Ahmed Ibupoto and senior officials were present on the occasion. They also addressed the audience.

The PSF also organized a one-day seminar on this occasion. During the technical session, Dr. A.D. Khan, PCRWR gave a



Students busy with the exhibits/models of the Expo at Islamabad.

talk on Water quality issues in Chairman, PSF, Dr. H.U. Khan, Pakistan, while Dr. Jahangir Khan Sial, Professor, PMAS-AAUR delivered a presentation on various dimensions of Hydroponic Agriculture in Pakistan.

The expo was organized for students at Model School, G-9/3 Islamabad where it remained open from May 7-10, 2014 and over 2,500 students and teachers from 20 schools visited it. The closing ceremony of the expo was held on May 10, 2014 in the same school. Mr. Rafique Tahir, Joint Education Adviser, CA&DD, Prof. Dr.

Chairman, PSF, Dr. H.U. Khan, CSO, PSF, Mr. Haider Zaman Khattak, Secretary, PSF and senior officers from PSF, Federal Directorate of Education and teachers/students participated.

Sargodha: The next station of the Expo was University of Sargodha (UoS), Sargodha. Prof. Dr. Zahoor-ul-Haq, Pro Vice Chancellor, UoS, along with Dr H. U. Khan, CSO, PSF and Mr. Abdul Rauf, National Coordinator Expo, PSF inaugurated the expo on May 13. The Expo remained open here from May 12-18, 2014.

Mirpur (AJK): The next



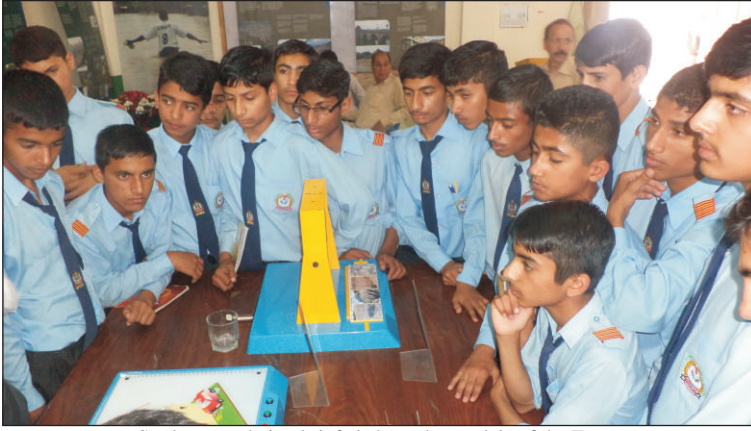
PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto presides over Closing Ceremony of Expo at Islamabad.



Prof. Dr. Zahoor-ul-Haq, Pro Vice Chancellor, University of Sargodha and Dr H. U. Khan, Chief Scientific Officer, PSF visit the Expo at University of Sargodha on May 13.



Prof. Dr. Khalil Ahmed Ibupoto, Chairman PSF, Dr. Habib-ur-Rahman, Vice Chancellor, MUST and Mr. Gills Angles, French Attaché inaugurating the Expo at Mirpur (AJK).



Students are being briefed about the models of the Expo.

station of the Expo was Mirpur Embassy of France, Dr. H. U. University of Science & Technology (MUST), where it was inaugurated by Chief Guest Dr. Habib-Ur-Rahman, Vice Chancellor, MUST and Prof. Dr. Khalil Ahmed Ibupoto, Chairman PSF, on May 20. On this occasion Mr. Gilles Angles, Attache for Cooperation,

Embassy of France, Dr. H. U. Khan, CSO, PSF and other senior officials were also present. The Expo in Mirpur continued till May 24.

Peshawar: The fourth station of the Expo was Peshawar where it was held on May 26-31, 2014. The opening ceremony of the expo was held on May 27 at



Prof. Dr. Khali Ahmed Ibupoto, Chairman, PSF, Prof. Dr. Zahoor Ahmed Swati, Vice Chancellor, University of Agriculture Peshawar and Mr. Haider Zaman Khattak, Secretary, PSF, visit the Expo at Peshawar.

University of Agriculture, Peshawar. The Expo was opened by Chief Guest Prof. Dr. Zahoor Ahmed Swati, Vice Chancellor,

University of Agriculture Peshawar and Chairman, PSF Prof. Dr. Khalil Ahmed Ibupoto. On this occasion high officials of Agriculture University and Dean of Faculty Crops Protection Sciences Prof. Dr. Muhammad Afzal, Chairman Department of Water Management Dr. Muhammad Jamal Khattak and other different faculties' deans and professors along with Member Finance/ Secretary, PSO, PSF Mr. Mehboob Khan, Mr. Abdul Rauf SSO, were also present.



Prof. Dr. Khalil Ahmed Ibupoto, Chairman PSF, Prof. Dr. Zahoor Ahmed Swati, Vice Chancellor University of Agriculture Peshawar and Dr. Muhammad Jamal Khattak Chairman Department of Water Management, University of Agriculture, Peshawar addressing the audience at inaugural ceremony of the Expo at Peshawar.

Pakistani Students Shine in International Science and Engineering Fair

Pakistan students shined in the Intel International Science and Engineering Fair (ISEF) held from 11th May to 16th May 2014 at Los Angeles, California, USA. The students included Sana Batool, Iqra Turbine Project of three students from Punjab Daanish School (Girls Branch), Hasilpur, won 5th position in ISEF and they got \$1000 prize

Ahmed Mian, Additional Secretary, Ministry of Science and Technology, Dr. Naushaba Nadeem from Pakistan Science Foundation (PSF) and Abdul Jabbar Shaeen, Secretary Pakistan in the ISEF. Mr. Ejaz School, Punjab, led the



A student is briefing about her project.



A group photo of Intel ISEF winner students.

Pakistani students.

It is pertinent to mention that Intel Education Initiative Pakistan in collaboration with PSF hold Intel National Science Fair every year to promote research-based learning at an

early age so that children can develop 21st century skills and compete effectively in the knowledge based economy of the future. Intel National Science Fair was held from January 26-29, 2014 at Sir Syed

Memorial Complex, Islamabad and the students who won at the national level competed in ISEF. These nine students who won at the national level competed with 1,700 students gathered from around the world

to showcase their talent in largest pre-college science fair conducted around the globe. ISEF is the only science fair competition that is held on such a huge scale for youth that is enrolled in class 8-12.

Agriculture Challenges and Management Highlighted

A three-day International Conference on "Stress Biology & Biotechnology: Challenges & Management" was organized by Institute of Agricultural Sciences (IAGS), University of the Punjab, Lahore on May 21-23, 2014. The inaugural session was graced by the Chairman PSF Prof. Dr. Khalil Ahmed Ibupoto as the Chief Guest. Director IAGS Prof. Dr. Muhammad Saleem Haider, University of Toronto's Prof. Dr. Munir Abu Haider, Prof. Dr. Kausar Abdullah Malik, Vice Chancellor Punjab University Prof. Dr. Mujahid Kamran, faculty members and a large number of students were also present on the occasion.

The Vice Chancellor, Prof. Dr. Mujahid Kamran said that there was need to focus on agriculture sector and do research to cater to the needs



PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto presides over the conference on "Stress Biology & Biotechnology: Challenges & Management" at IAGS, University of Punjab.

of increasing population of the world and feed around 7 billion people. He said that the Punjab University is rendering all-out support for research in agriculture. The Chairman PSF, Prof. Dr. Khalil Ahmed lauded PU-IAGS for its efforts to boost agriculture sector in Pakistan and said that Pakistan Science Foundation will provide full support in this regard. Dr. Munir Abu-Haider said that he was happy to see that Pakistan was making efforts to cope with problems

being faced by agriculture sector. Dr. Muhammad Saleem Haider said that purpose of the conference was to debate on these challenges and provides solutions. About 70 presentations were made during 10 different Technical sessions, and more than 50 were displayed as poster presentations. There was very active participation

from various educational and research institutes of Pakistan.

The concluding session of the conference was graced by the presence of Prof. Dr. Judith K Brown, University of Arizona, USA and Dr. Rob Briddon from NIBGE, Faisalabad. Dr. Brown appreciated the efforts of Dr. Muhammad Saleem Haider and congratulated him on the successful completion of the conference and promised collaboration of their institutions with the IAGS in future. At the end, Director IAGS, Prof. Dr. Muhammad Saleem Haider thanked USDA-ICARDA, HEC, PSF and Punjab University for providing financial support to arrange this mega event.

IAGS-PU Celebrates Annual Function



PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto attends Annual Function of IAGS, University of Punjab.

Annual Function of the Institute of Agricultural Sciences (IAGS), University of the Punjab, Lahore was celebrated on May 8, 2014. The occasion was graced by the presence of Punjab Agricultural Minister Dr



IAGS Prof. Dr. Muhammad Saleem Haider, presents shield to PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto.

Farrukh Javed, Chairman Pakistan Science Foundation Prof. Dr. Khalil Ahmed Ibupoto, Sultan Ali Choudhary, Vice Chancellor Punjab University, Prof. Dr. Mujahid Kamran, Dean Faculty of Life Sciences, Prof. Dr. Muhammad Akhter, Director, IAGS, Prof. Dr.

Saleem Haider, faculty development related activities at the institute. Dr Chief Guest presented the Institute's Shield to the PSF Farrukh Javed and Dr. Khalil Ahmed Ibupoto lauded the Chairman. PSF Chairman research work at the institute Dr. Ibupoto also presented a shield to the honorable Chief and said that it would be beneficial for both country Guest.

PSF Science Caravan Exhibitions

Pakistan Science Foundation's Science Caravan Peshawar Unit in collaboration with Community Research & Development Organization arranged Planetarium shows at GGPS-Forest College for five Govt Girls Primary Schools of Peshawar district on May 22, 2014. The theme of exhibition was "Promotion and Importance of Science". As many as 267 students and 12 teachers participated in the Exhibition. Both the teachers and students took keen interest in night sky and solar system.

PSO Attends Training Course on Human Resource Development



Mr. Mahboob Khan, Principal Scientific Officer, receives certificate of participation in a four days training session on Human Resource Development Issues and Policies.

Mr. Mahboob Khan, Principal Scientific Officer, attended a four days training session on Human Resource Development Issues and Policies from 12-25th May, 2014 at Pakistan Manpower Institute, Islamabad.

Meetings of Technical Committee on NSLP Recommends 10 Projects for Funding

A meeting of Natural Sciences Technical Committee was held Linkages Programme (NSLP) on May 15, 2014 wherein 16 new projects and eight progress reports of on-going projects were presented to the Committee. The Committee after discussion on technicalities of all the new research proposals, recommended 10 projects for funding while adopted all the progress reports. The recommended projects will be presented in upcoming Fund Management Committee meeting for approval of their budgets before release of funds.



A view of the Meeting of Technical Committee on NSLP.

Important Meetings/Events

Pakistan Science Foundation Chairman Prof. Dr. Khalil Ahmed Ibupoto attended following important meetings/events in May 2014:

- Chaired PSF Travel Grants Award Committee Meeting at PSF on May 05.
- Chaired Meeting of PSF Technical Committee on Bio-technology on May 07.
- Attended a Seminar on "Role of Leadership in Steering Education Towards National Issues" at PMAS Arid Agriculture University, Rawalpindi, on May 13.
- Held a meeting with a delegation from Ev-K2-CNR in the Committee Room of PSF, on May 14.
- Chaired a Meeting to Review PSF Documentary regarding Industrial Linkages Programme in the PSF Committee Room on May 14.
- Attended 12th Teradata National IT Excellence Awards at Sheesh Mahal Hall, Serena Hotel, Islamabad on May 18.
- Chaired a meeting of PSF Technical Committee on Chemical Sciences, at PSF on May 26.
- Chaired a meeting of PSF Technical Committee on Environmental Sciences, at PSF on May 29.
- Chaired a meeting of PSF Travel Grant Award Committee on May 29.
- Held a Meeting with Director, Colleges, Quetta at PSF on May 29.
- Attended Launching of UNESCO, WHO & UNDP Human Security Project in D.I. Khan and Farewell Reception for Dr. Kozue Kay Nagata at Serena Hotel, Islamabad on May 29.



A group photo of PSF Technical Committee on Chemical Sciences at PSF on May 26.



A group photo of PSF Technical Committee on Environmental Sciences at PSF on May 29.

Pakistan Museum of Natural History (PMNH)

Editor: Dr. Saleem Ahmad, Curator

PMNH Celebrates International Day for Biological Diversity

Pakistan Museum of Natural History celebrated 12th International Day for Biological Diversity on 22nd May 2014, with the collaboration of Pakistan Science Foundation, Snow Leopard Foundation and WWF-Pakistan for creating awareness among the public on environmental issues and conservation of our biodiversity. The chief guest of the occasion was Prof. Dr. Rai Niaz Ahmed, Vice Chancellor, PMAS University of Arid Agriculture, Rawalpindi. The occasion was graced by Prof. Dr. Khalil Ahmed Ibupoto, Chairman, Pakistan Science Foundation and Syed Mahmood Nasir, I.G. Forests, Ministry of Climate Change, Islamabad. The inaugural session was attended by eminent scientists, professors, teachers, representatives of NGOs and students. The inaugural session was followed by a seminar on Biodiversity of Astola Island in the PMNH audio-visual hall. At the same time a Relief Map Study for school students was carried out on the premises of PMNH as a parallel activity. This year, the theme of the day was "Island Biodiversity". Islands are natural laboratories to understand the processes of evolution, speciation, and



Inaugural ceremony of the 12th International Day for Biological Diversity on 22nd May 2014 at PMNH.

endemism in living organism. The island ecosystems have a legacy of a unique evolutionary history and are irreplaceable treasures. These islands harbor thousands of endemic plant and animal species found nowhere else on earth. They are also keys to the livelihood, economy, well-being and cultural identity of 600 million islanders comprising one-tenth of world population. Island species are also unique in their vulnerability. Out of the 724 recorded animal extinctions in the last 400 years, about half were island species. Over the centuries, island biodiversity

has been subject to intense pressure from invasive alien species, habitat destruction, pollution, over-exploitation, and increasingly from climate change. This pressure is also keenly felt by island economies. Keeping in view the importance of Island Biodiversity, the Secretariat of the Convention on Biological Diversity (CBD) has announced "Island Biodiversity" as the theme of International Day for Biological Diversity (IDB) for the year 2014.

The seminar covered the biological and geological aspects of the Astola Island

which is the only island of biological significance in Pakistan, though there are other 9 islands along the sea shore of Pakistan. Astola island is at 40 km Southeast of Pasni Harbour, Balochistan. It is 6.7 km in length and 2.3 km in width, with an area of 6.7 km², the highest point being 247 feet above sea level. It was designated as Ramsar Site on May 10th, 2001. The seminar on Astola island was highly informative. Scientist from all over the country gave presentation focusing on the origin of islands; the island biodiversity including fishes, reptiles, birds



Prof. Dr. Khalil Ahmed Ibupoto, Chairman, Pakistan Science Foundation addressing inaugural ceremony of the event.



A PMNH geologist assisting students in relief map study

and mammals; special climate change on island characteristics of island ecosystems. The newly biodiversity; vulnerability of discovered coral reefs around islands to exotic species and Astola island, was the area of immigration and impacts of special interest for the



Students learning relief map study

participants. It was disclosed that so far 8 species of soft corals and one species of black coral has been discovered from the island vicinity. The Relief Map Study activity was aimed to create awareness among the students about biodiversity importance on the globe and threats which are constantly degrading it. Some 120 students from eleven schools of Islamabad and Rawalpindi participated in this event. Relief maps of Pakistan were provided to the students along with papers and pencils. Resource persons from the Earth Sciences Division of PMNH briefed the student how to identify the basic relief features on map such as mountains, glaciers, rivers, river plains and plain areas, etc. After briefing, the students were asked to write a note on the relief features of Pakistan. With the help of this activity the basic concept of map reading was formed in the minds of students. Participating schools of this activity were awarded Souvenir shields. This activity will be continued in future, in which the students will learn how to locate and to mark flora and fauna of our country on the map according to the relevant longitudes and latitudes. The study of relief maps is an important process required for understanding the distribution of plant and animal species as well as for identification of specified habitats.



Dr. M.K. Leghari, DG, PMNH, Dr. M. Rafique, Director ZSD, Dr. Nayyer Iqbal, Director ESD, Mr. Abdul Rahim Rajpar, Director PSD, and Dr. Ghazala Roohi, Curator, ESD with Mr. Ashiq Ahmed Khan, National Expert, EV2CNR, after the seminar on Island Biodiversity held at PMNH.

CCRI Sakrand Scientists Visit PMNH



Scientists of Central Cotton Research Institute Sakrand during visit to PMNH

The scientists of Central Cotton Research Institute (CCRI), Sakrand (Shaheed Benazirabad) headed by Mr. Abdul Rahim Rajpar, Director, PSD, briefed the delegation about role and activities of the organization. The guests took keen interest in the entomology collection and expressed their desire to set up a herbarium like that of PMNH, related to cotton crop for general public and farmers. They applauded the contribution of PMNH/PSF in science promotion in the country. The Associate Curator, BSD, and Mr. Abdul Rahim Rajpar, Director, PSD, briefed the delegation about role and activities of the organization. The guests took keen interest in the entomology collection and expressed their desire to set up a herbarium like that of PMNH, related to cotton crop for general public and farmers. They applauded the contribution of PMNH/PSF in science promotion in the country.

MoU Signed between PMNH and University of Sindh

Centre for Pure and Applied Geology, University of Sindh, Jamshoro and PMNH, PSF, signed a Memorandum of Understanding (MoU) for cooperation in the field of Geology/Paleontology. The MoU signing ceremony was held at PSF on 16th May. Prof. Dr. Khalil Ahmed Ibupoto, Chairman, PSF, and Dr. Nazir Ahmed Moghul, Vice Chancellor, University of Sindh, Jamshoro, signed the MoU. Prof. Dr. Sarfraz Hussain Solangi, Director, Department of Geology, University of Sindh, Jamshoro, Director General PMNH, Directors of PMNH, CSO, and Secretary, PSF, were also present during the signing ceremony.

The MoU will lead to mutual cooperation in research and education, training of scientists, information sharing, holding of exhibition/ workshop/ conferences/ symposia/ seminars, etc. Both organizations will jointly work to establish a seat of learning in the field of Geology i.e. short courses and certificate courses

of different durations at PMNH, Sindh, Jamshoro, will actively participate in developing curriculum and all course materials will be prepared in consultation with PMNH scientists. Further discussions will be held in future to explore the possibilities for the award of degrees and diplomas.

Both organizations will work together to strengthen PMNH and Museum at the Centre for Pure and Applied Geology, University of Sindh, Jamshoro, through important collections and display/exhibition in the field of Geology and maintain a liaison with different countries of the world for the exchange of geological reference and research material. The scientists of the two organizations can jointly organize field works in different areas of Pakistan for the collection of geological samples for research and reference materials. Library, Reference material, Computer facilities, Design Section of PMNH can be mutually shared. The scientists of two organizations may jointly submit and conduct research projects and share their common facilities.



PSF Chairman Prof. Dr. Khalil Ahmed Ibupoto and University of Sindh Vice Chancellor Dr. Nazir Ahmed Moghul exchange documents after signing the MoU.

Vice Chancellor Sindh University Jamshoro Visits PMNH

Sindh University Jamshoro Vice Chancellor Prof. Dr. Nazir Ahmed Mughal and Pro Vice Chancellor, Thatta campus Dr. Sarfraz Hussain Solangi visited Pakistan Museum of Natural History (PMNH) on 15th May. DG PMNH Dr. M.K. Leghari along with Directors welcomed the guests. The main objective of their visit was to explore the possibility of collaborative research activities in the field of Geology. They visited the display galleries, dioramas and rock, minerals, and fossil repositories of PMNH. The guests applauded the rich geological and paleontological collection.



University of Sind Vice Jamshoro Chancellor Prof. Dr. Nazir Ahmed Mughal and Pro-Vice Chancellor, Thatta Campus Dr. Sarfraz Hussain Solangi discuss possibilities of collaboration with DG, PMNH, Dr. M. K. Leghari and Directors of ESD and PSD.

PMNH Botanist Conducts Training on Apple Baggage Technology

Dr. Muhammad Ismail, this training last year from the Associate Curator, BSD Institute of Fruit and participated as Resource Pomology, China. This Person in the training session training session was jointly on Introduction of baggage organized by PMNH/PSF and technology for apple fruits on NRSP. Over 25 progressive 27th May at National Rural apple orchard owners of Tehsil Support Programme (NRSP), Matta of Swat district participated and learnt Swat. This is a popular technology in China and Dr. practically how to cover apple Muhammad Ismail received fruits using this technology.



Use of baggage technology for apple in Matta, Swat.

This technology is being harsh weather conditions. It is introduced for the first time in hoped that this initiative will Pakistan on experimental basis open new windows for in the apple growing areas of production of quality apples Swat district. This technology according to export criteria. aims to protect the fruit from The orchard owners took keen interest in the training session fungal diseases, mechanical and thanked PMNH/PSF and wounds on fruit; enhance NRSP, Swat for introducing proper ripening, shape and this technology in their area. quality of fruit and withstand



Dr. Muhammad Ismail delivering lecture as Resource Person in the training session on Introduction of Baggage Technology in Apple Fruits in Matta, Swat

Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Syed Aftab Hussain Shah

PASTIC organizes three Day Training Workshop on “Scientific Research Tools”

Pakistan Scientific and Technological Information Centre, (PASTIC), organized a 3-day training workshop on “Scientific Research Tools” at PASTIC National Centre, Quaid-i-Azam University Campus, Islamabad from May 07-09, 2014. Prof. Dr. Muhammad Akram

Shaikh, Director General PASTIC delivered welcome address to participants of the training workshop. The Inaugural Ceremony was also attended by PASTIC Officers. The target participants of the training workshop were research scholars, employees and other organizations and

faculty members of public sector universities especially located in Islamabad / Rawalpindi. Computer literacy was a pre-requisite for selection of the participants. Thirty participants from different academic, research and other organizations attended the said training workshop. The participants were trained in research tools such as EViews, STATA, SPSS, NVIVO, MS Excel, EndNote, Minitab, MATLAB, R Language, MS OFFICE & EXCEL, MStat C, Design Expert, DD Solver, Chem Draw, Zotero, Graph Pad, Prism, and Bio Stat. It was expected from participants to learn those research tools from the said training workshop in order to fully utilize them in their research work and professional endeavors. Post-workshop assessment of the participants was also carried out to see their level of comprehension regarding course contents, resource person, hands on training



Prof. Dr. Muhammad Akram Shaikh, Director General PASTIC delivering welcome address to participants of the training workshop.



Glimpse of Participants during Training Workshop at PASTIC IT Lab.

session and over all workshop arrangements.

All the participants found the training useful and felt that they had achieved course learning objectives already conceived by them before attending the said training workshop. The participants suggested that such training programmes should be organized for one week duration from 09:00 am to 04:00 pm and separate training workshops should be organized for students of



A group photo of participants and resource persons with Director General, PASTIC at the Concluding Session of Training Workshop.

different disciplines. research work and jobs. Prof. Dr. Muhammad Akram Shaikh At the closing of the workshop, Prof. Dr. Muhammad Akram distributed certificates to Shaikh, Director General, successful participants in the PASTIC advised the presence of training workshop participants to fully utilize the coordinator & sectional heads said software tools for of PASTIC National Centre, accomplishment of their Islamabad.

Seminar on Intellectual Property Protection “Guidelines for Researchers & Industry” at Karachi

Pakistan Scientific and Technological Information Centre (PASTIC) Sub Centre, Karachi in collaboration with Faculty of Civil Engineering, NED University of Engineering & Technology, Karachi organized a one-day seminar on “Intellectual Property Protection, Guidelines for Researchers and Industry” on May 28, 2014 at the Civil Engineering Video Conference Hall NED University, Karachi. Prof. Dr. Muhammad Afzal Haque, Vice Chancellor, NED University, was the Chief Guest, and Prof. Dr. Muhammad Akram Shaikh Director General, PASTIC was the Guest of Honour. The aim of the seminar was to create awareness about Intellectual Property Rights amongst scientists, entrepreneurs and the SMEs and to deliberate on the importance of patents & their benefits in economic development. Expert speakers were invited from law firms. About 61 participants representing academia, Industry, R&D organizations and the legal professionals attended the seminar. Prof. Dr. Muhammad Afzal Haque, Vice Chancellor, NED University said that IPRs cover assets (both tangible and intangible) which arise from people's creativity and innovation, or discovered /



Prof. Dr. Muhammad Afzal Haque, Vice Chancellor NED University, Karachi, Prof. Dr. Muhammad Akram Shaikh, D.G., PASTIC during the IPR Seminar.

prospected & evolved over the years in particular geographical locations, while IPRs are now recognized as an important asset that qualifies for protection, its enforcement has always been a major problem. Prof. Dr. Muhammad Akram Shaikh Director General, PASTIC, said that This is the need of the hour to promote innovation and patentability. He also said that the main objective of the workshop was to create awareness among scientific researchers and industrial community about the importance of Intellectual Property, especially Patent as a tool for economic growth and wealth creation.



Prof. Dr. Muhammad Akram Shaikh, Director General, PASTIC addressing the inaugural session of IPR Seminar.



Group photo of Participants of one-day seminar on “Intellectual Property Protection, Guidelines for Researchers and Industry”.

National Conference on Sustainability in Process Industries (SPI 2014)

A one-day National workshop on Sustainability in Process Industries (SPI 2014), was held on 22nd May 2014, at UET Peshawar. The workshop was organized in collaboration with Chemical Engineering Department, UET Peshawar & National Academy of Young Scientists (NAYS). Director General PASTIC Dr. Akram Shaikh and Vice Chancellor, UET Engr. Imtiaz Hussain Gillani were the guests of honor. Proceedings of the inaugural session started with recitation of the Holy Quran. Addressing on the occasion, Dr. Saeed Gul Head of Chemical Engineering Department/ Secretary Workshop welcomed the Director General PASTIC and worthy guests. He elaborated the aims and objectives of the Seminar, and thanked PASTIC /PSF & NAYS for organizing the workshop at UET Peshawar. Dr. Akram Sheikh, Director General, PASTIC, explained the role of PASTIC /PSF and emphasized the participants to take guidance from the PASTIC/PSF authorities during their research. He added that quality of research needs to be at par with the international standards and it can only be possible if researchers concentrate on the problem solving approach.

Engr. Imtiaz Hussain Gillani, Vice-Chancellor, UET Peshawar welcomed the Dr.



Dr. Muhammad Akram Shaikh, DG, PASTIC along with Vice Chancellor, Engr. Imtiaz Hussain Gillani, UET Peshawar and Dr. Saeed Gul, head, Department of Chemical Engineering at the National Workshop on Sustainability in Process Industries (SPI 2014).

Akram Sheikh, Director General, PASTIC and worthy guests. He appreciated the efforts of PASTIC/NAYS and advised the young engineers & faculty members to get maximum benefit from the workshop and also from PASTIC/PSF services. Prof. Dr. Arshad Hussain (HOD, SCME-NUST Islamabad) delivered plenary lecture and elaborately talked on "Application of Membrane Technology for CO₂ Capture from Natural Gas."

Technical session I was divided into three groups, first group focused on Bioprocesses which was chaired by Dr. Arshad Hussain and Co-Chaired by Dr. Jamil Ahmad. Prof. Dr. Suleman Tahir UOG, Gujrat delivered key note speech on "Bio-Refinery: An Integrated and Sustainable Alternative to Fossil Fuel," while six

engineers from NUST Islamabad, Faisalabad, and UET, Peshawar presented their work.

While, second group focused on Energy Engineering-1. This session was Chaired by Dr. Noor Ul Amin and Co-Chaired by Dr. Waqar Ali Khan. Prof. Dr. Shahid Raza Malik, NFC IE&FR, Faisalabad, delivered key note speech on "Energy Crisis in Pakistan and its Solution." During this session, six engineers from PCSIR, Karachi, SCME-NUST Islamabad, Cherat Cement Nowshera, PARCO & UET Taxila presented their work.

The third group focused on MODELING and SIMULATION and key note speech was delivered by Dr. Ishaq Ahmad, UET Peshawar about "Determination of Empirical Modeling Parameters

for the Processing of Bauxite Ore." In this group, six presenters were from UET Peshawar.

Plenary Lecture 2 was delivered by Dr. Michael Harasek, TU Wien, Austria via Skype. After this secession II was started and it was divided into two groups, first group focused on Energy Engineering-II, second on Process and Product Engineering. First group was Chaired by Prof. Dr. Suleman Tahir and Co-Chaired by Dr. Gul e Rana Jaffri. Engr. Waheed Ur Rehman, PCSIR, Peshawar delivered key note speech on "Forward Osmosis and Emerging Separation Techniques," while, second group was Chaired by Prof. Dr. Shahid Raza Malik and Co-Chaired by Dr. Ishaq Ahmad and Prof. Dr. Suhail A. Soomro, MUET, Jamshoro delivered key note speech about "Prospects of Bioprocess Industry and Chemical Engineering." Five presenters in each group presented their work from reputable organizations.

Last session was Panel discussion between University & Industry representatives. During this session a fruitful discussion was made between students, scholars, and industrialists. The conference was wrapped-up by Dr. Muhammad Younas. A total of 50 Engineers/Scientists attended the conference.



Dr. Akram Shaikh, Director General, PASTIC, talking on role of PASTIC /PSF during National workshop on Sustainability in Process Industries (SPI 2014).

Consultative Workshop on Encouraging Problem-Solving Research



Dr. Jamsheed Director, CHRCU University of Peshawar, Mr. Ishtiaq Kiani Secretary General, Hattar Industrial State, Mr. Abid Sohail, Deputy Director DOST, KPK, Dr. Tariq Bashir from PCST, Mr. Rehmat Ullah, Director, IRP, Dr. Khalid Khan, Additional Secretary Higher Education Department, KPK., Dr. Ahmed Bilal, Deputy Director, Commercialization Cell MoST and Mrs. Ghazala Yasmeen Malik, Deputy Director, PASTIC Sub-Centre, Peshawar speak at Consultative Workshop.

A one-Day Consultative Workshop on Encouraging Problem-Solving Research R&D Policy for Enabling Environment was organized in collaboration with PASTIC, IRP, PCST and University of Peshawar. A total of 85 scientists attended the workshop from all major S&T Industrial State, Mr. Abid and Public / Private Universities of KPK. Dr. Khalid Khan, Additional Secretary for Higher Education of Peshawar and Muhammad Department (HED), Ahmed, CEO, KCL Pharma. Government of KPK was the

Chief Guest. The speakers were Dr. Tariq Bashir, PCST, Mr. Rehmat Ullah, IRP, Dr. Ahmed Bilal, Deputy Director, Commercialization Cell MoST, Mrs. Ghazala Yasmeen Malik, Deputy Director PASTIC Sub-Centre, Peshawar, Mr. Ishtiaq Kiani, Secretary General Hattar Industrial State, Mr. Abid Sohail, Directorate of Science & Technology (DOST), Dr. Jamsheed Shinwari, University of Peshawar and Muhammad Department (HED), Ahmed, CEO, KCL Pharma. Government of KPK was the



A view of the Consultative Workshop.

PASTIC Organizes Services Stalls in Karachi and Peshawar

Karachi: PASTIC Sub Centre Karachi arranged a PASTIC services stall during "7th PowerGen & Energy Forum 2014" held on May 22, 2014 at Marriot Hotel, Karachi. A large number of participants visited PASTIC stall.



A visitor reviews information literature at PASTIC Services Stall in Karachi.

Peshawar: PASTIC Services stalls was also held during one-day National workshop on Sustainability in Process Industries (SPI 2014), on 22nd May 2014, at UET, Peshawar and PASTIC free registration forms and brochures were distributed among the participants.



A glimpse of PASTIC Services Stall in 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: 9252086, 9252087
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