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From the Chairman



The power and influence of the print and electronic media to set a nation's agenda and to focus people's attention on public issues is immense and well acknowledged. Not only do people acquire factual information about the public affairs from the news media, readers and viewers also learn how much importance to attach to a topic on the basis of the emphasis placed on it in the news.

Understanding science and technology is a pre-requisite for making wise choices in the acquisition and utilization of knowledge resources which are to be fully deployed towards human development and welfare. Attempts to bring the benefits of science to society require a certain threshold of capacity to understand science and its applications and to recognize the daily opportunities to make the science work for people.

The media works as a bridge between scientific community, technologists, industrialists and

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PSF, National Press Club sign MoU of collaboration

Pakistan Science Foundation (PSF) and National Press Club (NPC) Islamabad signed a Memorandum of Understanding (MoU) at PSF on October 25, 2016.

PSF Chairman Prof. Dr. Muhammad Ashraf and NPC President Mr. Shakeel Anjum signed the MoU on behalf of their respective organizations.

Federal Minister for Science and Technology (S&T) Rana Tanveer Hussain was the Chief Guest.

Federal Secretary S&T Fazal Abbas Maken was also present at the signing ceremony attended by the office bearers of NPC, journalists, senior scientists and heads of S&T



PSF Chairman Prof. Dr. Muhammad Ashraf and National Press Club (NPC) President Mr. Shakeel Anjum sign MoU of collaboration in science communication at Pakistan Science Foundation on October 25, 2016. Federal Minister for S&T Rana Tanveer Hussain and Federal Secretary S&T Mr. Fazal Abbas Maken and office-bearers of NPC are also present.

organizations. The MoU is aimed at developing cooperation and collaboration for the promotion of scientific culture in the society; to strengthen

the links between PSF and National Press Club for sharing their expertise with each other in science popularization through mass media.

Under the MoU, it is mutually understood and agreed by PSF and National Press Club that both organizations will work together for joint training programmes for journalists and scientists to enhance their capacity for science and technology reporting, article writing, documentary production and photo journalism etc.

PSF and NPC will arrange joint activities such as science



PSF Chairman Prof. Dr. Muhammad Ashraf and National Press Club President Mr. Shakeel Anjum exchange documents after signing MoU of collaboration in science communication at Pakistan Science Foundation on October 25, 2016.

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general public by highlighting the scientific R&D within the country. For the promotion of a culture of scientific thinking and entrepreneurship for socio-economic development of the country, the scientists and technologists also require a medium from where their research outputs could be comprehended and disseminated to the general public for getting maximum benefit from their research findings.

The role of science and technology in our daily life is very important and the goals of national development without it cannot be achieved without actively involving both print and electronic media for educating masses on importance of science and provision of prompt information to them on this vital subject. In present era of information technology the role of Media has become imperative for promotion and popularization of science and technology in the country.

The PSF has established a Science Media Cell for prompt dissemination of scientific information and science and technology activities through electronic and print media. The Media realizing the importance of science in national development has started playing its role to highlight science and technology activities in the country. PSF and Media have planned some specific joint activities for development of science and highlighting S&T activities/ achievements of R&D organizations of Ministry of Science and Technology. PSF will publicize these joint activities through media and hopes that the S&T organizations, media organizations and journalists will proactively not only give their output for making these joint ventures meaningful but also actively participate in this cause of national interest and development.

exhibitions, science quiz programs, science declamation contests, nature photography, flower arrangement and science poster competitions etc.

Awards for journalists on best science reporting in print and electronic media, science articles etc. will be instituted to encourage science reporting and article writing.

Both the organizations will arrange joint science conferences, seminars on science communication for capacity building of journalists. PSF and NPC will mutually share and exchange information and materials like literature, videos, and other data for designing of common activities.

Speaking on the occasion, Rana Tanveer Hussain said the media works as a bridge between scientific community, technologists, industrialists and general public by highlighting the scientific R & D activities within the country. For the promotion of a culture of scientific thinking and entrepreneurship for socio-



Federal Minister for S&T Rana Tanveer Hussain addresses the audience at the signing ceremony of MoU between PSF and National Press Club.

economic development of the country, the scientists and technologists also require a medium from where their research outputs could be comprehended and disseminated to the general public for getting maximum benefit from their research findings. He added that media could play a vital role in catering this need.

The Minister said that the MoU between PSF and NPC will help popularize science in the country. He said no country could make progress without science and technology. Rana Tanveer Hussain hoped that the collaboration between PSF and NPC will help in promoting science culture in the country

by highlighting the importance of science in our daily life and R&D activities. He appreciated the management of NPC and PSF for joining hands to promote science culture in the country through effective science communication.

PSF Chairman Prof. Dr. Muhammad Ashraf highlighted various PSF programmes aimed at promoting science culture in the country.

He said PSF is the pioneer organization which established Science media Cell to effectively highlight S&T activities. Dr. Ashraf said that the Foundation is establishing a consortium of libraries and the NPC library will be made part of the consortium. He said that the Foundation has instituted a Journalist Award amounting to Rs 100,000 each and gold medal on best reporting and article writing. He added that the Foundation in collaboration with National Press Club will arrange joint capacity building workshops and training programmes for the journalists. NPC President Mr. Shakeel Anjum in his address said the MoU will help boost S&T activities and media will play its role in highlighting the R&D activities by disseminating the information promptly.



A group photo on the occasion of signing ceremony of MoU between PSF and NPC on October 25, 2016.

Quote of the Month

“It does not help that some politicians and journalists assume the public is interested only in those aspects of science that promise immediate practical applications to technology or medicine.”

–Steven Weinberg

Popular Science Lecture on Real Time Communication

Introducing and benefiting from new technologies top priority: PSF Chairman

Pakistan Science Foundation (PSF) is working to make Pakistanis to be the technology leaders not followers by creating an environment of invention and innovation in science and technology, said PSF Chairman Prof. Dr. Muhammad Ashraf on October 27, 2016.

He was speaking as the Chief Guest at the Popular Science Lecture on “Real Time Communication” by Salman Nayyar, Chief Executive Officer and country Xura, at PSF. Scientists, teachers and students from educational

institutions of twin cities of Rawalpindi and Islamabad attended the lecture.

He said PSF under its popular lecture series invites renowned scientists, researchers and technologists to deliver lecture for the mixed audience of students, teachers and general public to make them aware of latest developments in science and technology.

Dr. Ashraf sought Xura cooperation in making PSF's Mobile Science Labs more information technology oriented and equipped Web Real Time communication so



Prof. Dr. Muhammad Ashraf, Chairman PSF addresses the audience as the Chief Guest during Popular Science Lecture on “Real Time Communication” at PSF on October 27, 2016.



Mr. Slaman Nayyar delivers a lecture on “Real Time Communication” at PSF on October 27, 2016.

that students having no labs in their schools could be enabled to perform experiments.

In his lecture, Mr. Salman Nayyar said “Real Time Communication (RTC)” has revolutionized the communication technology. It allows us to seamlessly integrate high quality live videos and voice and messaging directly into any website or application, he said adding the RTC has invaluable importance in science & technology having no risk of spying and malwares.

He said that the RTC needs no downloads or plug-ins for the end users only need a compatible browser. Mr. Nayyar said many activities in our daily life have become e-activities like banking, learning and shopping etc. “Everyone is shifting toward online, he said. The organizations must find new ways to communicate and connect for forging internal collaboration for achievement of objectives.

During his lecture he gave practical demonstration through videos.



PSF Chairman Prof. Dr. Muhammad Ashraf speaks to audience on the occasion of announcement of winners of 25th Inter-Board Science Poster Competition on “Importance of Light in Our Life” at PSF on October 18, 2016.



PSF Chairman Prof. Dr. Muhammad Ashraf visits the exhibition of 25th Inter-Board Science Poster Competition on “Importance of Light in Our Life” at PSF on October 18, 2016.



Judges busy evaluating the posters to declare top position holders of PSF's 25th Inter-Board Science Poster Competition on “Importance of Light in Our Life” at PSF on October 18, 2016.

Over 34,000 Students, Teachers Benefit from Science Exhibitions, IBSE Trainings in Oct. 2016

As many as 34,120 students and teachers from over 150 schools benefitted from science exhibitions arranged by PSF Science Caravan Units all over the country in the month of October 2016. The detail is as under:

Federal: The PSF Science Caravan Federal Unit arranged a planetarium show at Pak-Turk International School & Colleges, Islamabad on October 5, 2016 and 350 students participated in the activity. A one-day IBSE session was also arranged in this school on October 10, 2016, which was attended by 150 students and teachers.

A planetarium show was arranged during World Science Week at Institute of Space Technology, Islamabad on October 19-22, 2016 and 3,750 students from 15 schools participated in the show.

A science exhibition was arranged at Iftikhar Model Academy, Khanna Dak, Islamabad, on October 24-28, 2016. The exhibition was visited by 1,690 students from eight schools. During the exhibition IBSE Training session for the teachers was also arranged. In which 40 teachers participated.



A view of planetarium show and science exhibition arranged by Federal Unit at IST and Iftikhar Model Academy, respectively

Sukkur: The PSF Science Caravan Sukkur Unit arranged an exhibition at Govt. (Boys) High School Rato-Dero District Larkana on October 24-31, 2016. Mr. Mohammad Fazal Saryo, Head Master, Govt. (Boys) High School Rato-Dero inaugurated the science exhibition. About 3,400 students, teachers and other staff of 12 schools visited the exhibition.



Mr. Irfan Ahmed, Assistant Director, PSF, briefing the Sessions Judge Taluka Rato-Dero and others about Science Exhibition and overall activities of PSF

Peshawar: Science exhibition was held at Pakistan Public School and College Peshawar from 3-8 Oct, 2016 while another exhibition was arranged at GCMHS Timergara Dir lower form 24-28 Oct, 2016 4144 student's and 130 Teachers from 12 schools participated during these exhibitions.

A view of planetarium show arranged by Peshawar Unit

Quetta: The Science Caravan Quetta Unit arranged an exhibition on October 3-11, 2016 at Tehsil Muslim Bagh District Qila Saifullah. The exhibition was visited by 3,085 students from 13 schools. Mr. Abdul Khalique, the unit in-charge delivered a lecture on important of water.



In-charge Quetta Unit delivering a lecture on importance of water at Tehsil Muslim Bagh, District Qila Saifullah, Balochistan.

Jaffarabad: The PSF Science Caravan Jaffarabad Unit arranged an exhibition at District Zhob which was visited by 2,686 students and 77 teachers from 21 schools. DEO Zhob Haji Habib ur Rehman inaugurated the exhibition at Govt. Boys High School Wadh Sheikhan and FC Commandant Zhob Mr. Rehan Sathi inaugurated Science Exhibition at Govt. Girls High School Nasirabad Zhob.



Mr. Manzoor Ahmed, Acting In-Charge of PSF Science Caravan Jaffarabad Unit briefs DEO Education Mr. Habibur Rahman and other officials about the exhibition and PSF activities

Tandojam: The Science Caravan Tandojam Unit arranged an exhibition at Govt. Boys & Girls High Schools of Taluka Mithi and Diplo on October 17-28, 2016. About 3,473 students, 145 teachers and 21 Schools visited the exhibition.



Glimpses of Science exhibition arranged by Tandojam Unit

Faisalabad: The Science Caravan Faisalabad Unit arranged exhibitions in schools of District Chakwal on August 27 to October 09, in District Norowal on October 17-22 and at National Museum of Science and Technology (NMST) Lahore on October 24-28. About 11,000 students from 47 schools participated in these exhibitions.



A view of science exhibition arranged by Faisalabad Unit in Narowal District.

Multan: The Science Caravan Multan Unit participated in 2nd International Conference on Zoonoses – 2016, which was organized by Faculty of Veterinary Sciences, Bahaudin Zakariya University, Multan. The Unit organized a stall in the exhibition area regarding PSF, PASTIC activities on October 20, 2016. Prof. Dr. Tahir Amin, VC, BZU, Prof. Dr. Masood Akhtar, Dean Faculty of Veterinary Sciences, BZU along with honorable guests visited the PSF stall and appreciated the PSF activities. Hundreds of visitors including students, teachers, professionals, foreign faculty members and general public visited the PSF stalls during the two days exhibition.

Pakistan Museum of Natural History (PMNH)

Editor: Dr. Muhammad Ismail Bhatti

10,482 Persons Visit PMNH in October 2016

A total number of 10,482 persons including 4,515 students, 2,500 general public, 22 foreigners and 3,445 children under-five-years of age visited Pakistan Museum of Natural History (PMNH) display galleries in October 2016. PMNH staff provided them technical guidance and arranged film shows for the student groups.

The main educational institutions, which visited PMNH in October included The Ambition Shool & College Afzalpur, Mirpur AJK, Bel School System Sialkot, Fakhar-e-Islam Science Foundation School Gujranwala, Al-Flah Higher Secondary School Gujrat, Sir Syed College Jaranwala, Swiss Model School Gujrat, Dawah Academy International Islamic University Islamabad, Beacon House School System Islamabad, Lasha

Iqbal Dar School Gujranwala, Kashmir Institute of Modern Studies AJK, The Quaid-e-Azam Group of Schools KPK, Punjab Lycem School Gujrat, Jamia Ashite-Islam New-Murree, Pak Turk International School & College Islamabad, Madni Public School Mandi Bhauddin, Flying Angels Public School Rawalakot AJK, Pak City Public School Gujranwala, Kotli Public School AJK, Study House School System Gujranwala, The Future Star Education System Sialkot, Pilot Model High School Faisalabad, Govt. Girls High School Gujrat, Pakistan School of Science Gujrat, Oxford Grammar School Sargodha, Ad-dua Educational System Rawalpindi, Chinnar Public School System Mirpur AJK, Education Heart School Gujranwala, Afaq School System



Faisalabad, Morning Star Public School Peshawar, The Chenab School Mianwali, Kid's Heaven Public High School Faisalabad, Dare-Arqam Secondary School Kharian, Aqsa Islamic Model School Jehlum and Ayesha Lasani Model School Rawalpindi.



Sindh Progressive Dates Growers Visit PMNH under National Exposure Programme

A 10 members group of Progressive Dates Growers from Sindh province visited PMNH along with a team of officials including Dr. Allah Dino Shah, Research Deputy Director Agriculture

Extension, Mr. Qamarul Din Solangi, Assistant Director Agriculture Extension and Mr. Shafi Muhammad Larik, Director Agriculture, Sukkur Sindh. The visit was organized by Sindh Agricultural Growth Project under National Exposure Programme. The team members were briefed by Dr. Muhammad Ismail Bhatti. Dates growers appreciated the research and educational activities of Pakistan Museum of Natural History (PMNH).



FAO IPCL Invites PMNH Fruit Flies Expert for Fruit Fly Species Identification

Dr. Khalid Mahmood, Curator, Zoological Sciences Division, Pakistan Museum of Natural History (PMNH), Islamabad,



who is taxonomist and expert of Fruit Flies identification and curation, was invited by Insect Pest Control Laboratory (IPCL) / IAEA / FAO, Seibersdorf, Austria to identify the pest species of genus *Bactrocera* (large genus of tephritid fruit flies, with more than 500 species currently described) being reared in IPCL, on October 3-14, 2016. FAO/IAEA/IPCL maintains the culture of three pest species *B. carambolae*, *B. dorsalis* and *B. kandiensis* in the Oriental fruit fly species complex and other important tephritid pest



species. During this visit for their identity. This is great different populations of honor for PMNH scientists to be invited by international institutions. Dr. Khalid Mahmood also visited the Natural History Museum, Vienna, Austria were morphologically checked

Indus Blind Dolphin, Zebra Specimens Showcased for Visitors



The main function of PMNH is collection, identification, curation and education of natural history (flora and fauna) of the country. Every specimen which is collected by PMNH or contributed to it by someone has importance and these specimens are displayed for general public visiting the Museum.

Keeping in view the importance of Indus blind dolphin and Zebra specimens, PMNH has protected and preserved these specimens in glass showcases and displayed for visitors. Now these specimens look more beautiful and protected.



Two Tunnels Contributed to PMNH for Growing Plants

The Society of Facilitators and Trainers of Pakistan contributed two tunnels to PMNH for education purpose of visitors. Some important live plants and macro fungi (Mushrooms) will be grown in these tunnels. The tunnel installation work is in progress.



PMNH Scientist Working on Natural Resources Conservation at Chitral Valley

PMNH Botanist Dr. Rizwana Khanum, Associate Curator, with the support of Individual Support Grant is working on conservation of natural resources of Chitral. PMNH scientist assists the community through Village Conservation Committee (VCC) approach in main schools in Booni, Rambur area. The people of the targeted areas are being facilitated about the importance of conservation of natural resources.

Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Mrs Rahila Khurram

PASTIC Launches New Scientific Journal

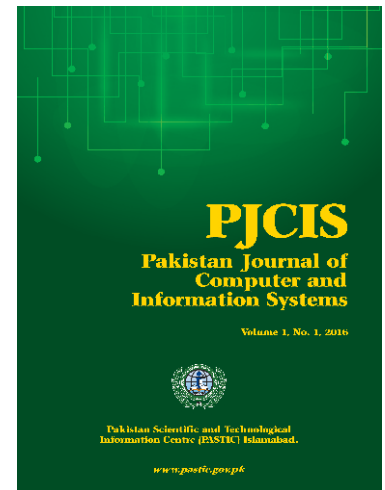
Pakistan Scientific and Technological Information Centre (PASTIC) has launched a primary scientific journal, namely, Pakistan Journal of Computer and Information Systems (PJCIS). The first issue of this journal has been published online and is available at <http://pastic.gov.pk>.

PJCIS is an open access peer reviewed biannual journal, focusing on Computer Science and Engineering. The mission

of this journal is to provide a platform for researchers and professionals of Computer Science & Engineering, Information and Communication Technologies (ICT), Information Systems and Library & Information Science for sharing and disseminating their research findings and publishing their original and cutting edge research.

This journal is intended to publish high quality papers,

short communications, reviews on theoretical development and practical applications in all fields of Computer Science & Engineering and ICT. PASTIC invites and welcomes submission of research and review articles in all the above areas for publication in PJCIS. To view the information and guidelines on how to submit papers and author guidelines, please visit the PASTIC website <http://pastic.gov.pk>.



PASTIC regularly organizes trainings in Research Methodology for capacity-building of researchers all over Pakistan on research and reference management tools



A group photo of the participants of the Workshop on "SPSS" with Director, PASTIC and other Officers.

PASTIC organizes workshop on SPSS

like SPSS, Mendeley, Endnote, etc.

In continuation of this activity, PASTIC National Centre, Islamabad organized a 3-day training workshop on "Research Tools and Techniques using SPSS on October 26-28, 2016. Syed Habib Akhter Jaffri, Principal Librarian/Course coordinator gave the introductory remarks. Mr. Muhammad Aqil Khan, Addl. Director (A&F) during opening remarks deliberated on PASTIC activities and the need



Certificates being awarded to participants at the end of SPSS training workshop.

to promote the research culture in Pakistan.

In the Closing Ceremony, Ms. Nageen Ainuddin, Director PASTIC praised the services and efforts undertaken by the Resource persons. She also

anticipated that participants of training workshop will utilize their learning skills while conducting their research for getting better analysis output with ease.

The participants expressed their appreciation for organizing such need based training, which would be useful in data analysis and interpretation.

Later on, the certificates were also distributed among the participants by the Director PASTIC.

PASTIC, HEC & UET, Peshawar organize a Joint workshop on SPI

The PASTIC Sub-Centre, Peshawar, in collaboration with UET, Peshawar and HEC organized SPI-2016 Conference on Sustainability in Process Industry on October 19-20, 2016 at Department of Chemical Engineering, UET, Peshawar.

The objective of the activity was to bring together researchers, engineers and scientists from academia and industry for future collaborative research.

This workshop provided a

forum to academia and industry to share and discuss their innovative ideas on developments in applied sciences.



Dr. Muhammad Akram Shaikh, Director General, PASTIC talking about importance of sustainability in industrial era.

Twenty plenary lectures,

keynotes and talks were delivered. 62 young researchers presented their research work during eight different technical sessions, while, 62 researchers presented their research work in the form of posters.

Professor Dr. Muhammad Akram Shaikh, Director General, PASTIC, Prof. Dr. Noor Muhammad, Dean UET, Peshawar, Prof. Dr. Niaz, Vice Chancellor, Taxila University, Dr. Younis, Chairman Chemical Engineering

Department & Mr. Zahid Arif, Chapter graced the Inaugural Chancellor, UET Peshawar, the Chief Guest of Closing Vice President PEC, KP Session. While, Vice Prof. Dr. Iftikhar Hussain was Ceremony.

PASTIC Sub-Centre, Lahore organizes a collaborative workshop on EndNote

The PASTIC, Sub-Centre, Lahore in collaboration with FAST-National University of Computer & Emerging Sciences, Lahore organized a one-day workshop on Bibliographic Citation Management Tool “EndNote X7.7,” on October 5, 2016. Forty-five persons from FAST and other organizations participated in this workshop.

Dr. Amjad Hussain, Director, FAST National University, presented the welcome note in which he introduced FAST and underlined its role in quality education. Dr. S. M. Sajid, Head of Department, EE, the Keynote Speaker, highlighted the importance of research and application of different tools in this technological era. He described that role of library has totally changed from traditional to electronic. He said that this training was a



Ms. Nageen Ainuddin, Director, PASTIC, addressing the audience.

good initiative taken by PASTIC and it would enhance the library image.

Ms. Nageen Ainuddin, Director, PASTIC, talked about

PASTIC services. She threw light on Endnote as Bibliographic Management Citation tool. She promised to provide her cooperation in



Glimpses of awarding shields and certificates to resource persons and participants at the end of workshop.



organizing such learning events in future too.

Dr. Nazir Hussain, Director General HEC Regional Center Lahore, shared HEC contribution towards promotion of research culture in Pakistan by providing scholarships to scholars and researchers. He valued this training workshop and encouraged to arrange such type of sessions in future to facilitate researchers and scholars.

Mr. Nadeem Sohail, Manager Library, presented theoretical and practical prospects about the Endnote. He and Mrs. Naila Siddiqui, Deputy Manager Library, helped all participants in practical application of this Endnote.

At the end of workshop, shields and certificates were distributed among guests and resource persons.

PASTIC Organizes 7 Services Stalls in Oct. 2016

Karachi: PASTIC Sub-Centre Karachi arranged a 2-day stall at the 3rd Talent Expo Karachi, 2016 at Expo Centre, Karachi



Mrs. Ghazala Ali Khan Deputy Director, PASTIC Sub-Centre, Peshawar briefs visitors at the stall during SPI-2016, 03rd Conference.

on October 18-19, 2016. A documentary about PASTIC, PMNH and PSF was played through multimedia during the stall. Pamphlets of PASTIC services were given to the visitors.

A one-day Stall was organized during the Seminar on the occasion of Diabetes Day at “United Medical & Dental College”, on October 25, 2016. Ms. Afsheen Tariq, ASIO, PASTIC briefed the medical students and other visitors about PASTIC services and forms were distributed.

A One-day stall was arranged

on October 26, 2016 in the Federal Urdu University of Arts, Science & Technology during seminar on Breast Cancer. PASTIC publications were displayed and forms/pamphlets were distributed to all visitors. Mr. Abdul Fatah Shaikh and Mr. Shahid Siddiqui briefed the students/researchers and the faculty members about PASTIC information services.

A one-day stall was arranged during “Dawood University Robotics Contest-2016”, on October 25, 2016 at Dawood University of Engineering & Technology.

Peshawar: PASTIC Sub-Center Peshawar arranged a one-day Stall during SPI-2016 03rd Conference on Sustainability in Process Industry from October 19-20, 2016.

A one-day Stall was arranged during the Breast Cancer Awareness seminar, held at Zoology Department, University of Peshawar, on October 20, 2016.

The third stall was arranged during one Day Breast Cancer Awareness seminar, held at Shaheed Benazir Bhutto Women University (SBBWU), Peshawar, on October 24, 2016.

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