

Prof. Dr. Muhammad Ashraf
Chairman
Pakistan Science Foundation

M. Javed Iqbal
Education Programmer



PSF NEWS

August 2017

Monthly Newsletter of Pakistan Science Foundation

Vol. 15 No. 08

From the Chairman



Teachers in Germany have the highest salary in the country, and when judges, doctors and engineers asked the Chancellor of Germany Angela Merkel for the same salary, she told them: How can I compare you to those who taught you? In other countries teachers are not common people and common people are not teachers. That's why the countries and nations who follow certain rules and principles are ruling the world through their socio-economic progress and social

Continued on page 2

Planetarium Inaugurated at Faisalabad Science Centre

The inaugural ceremony of the PSF-Planetarium was held on August 07, 2017 at Science Centre Faisalabad. It was the first planetarium opened for public after PIA planetarium in Pakistan.

Mr. Fazal Abbas Maken, Federal Secretary Ministry of Science and Technology, was the Chief Guest on this occasion. Prof. Dr. Muhammad Ashraf, Chairman Pakistan Science Foundation (PSF), Member Science PSF & DG PASTIC Prof. Dr. Muhammad Akram Shaikh were also present. About 230 guests from different circles of educational/ S & T organizations and FCCI



Secretary S&T Mr. Fazal Abbas Maken addresses the inaugural Ceremony of PSF Planetarium at Science Centre, Faisalabad on August 7, 2017

attended the ceremony. A group of teachers, students, scientists, university professors and business community also participated in the ceremony.

The chief Guest was warmly welcomed by the Chairman PSF and a squad of school cadets presented guard of honour the chief guest.

Addressing the ceremony, the PSF Chairman highlighted the achievements of the Foundation in the field of Science and Technology (S&T). He introduced the purpose, importance and future benefits of the planetarium. He invited all the community to visit the Science Center and planetarium in order to promote science awareness among public, especially the students. The Chairman said that aim of the Science Centre was to provide latest knowledge of (S&T) to public and this



Secretary S&T Mr. Fazal Abbas Maken and Chairman PSF Prof. Dr. Muhammad Ashraf unveils plaque to inaugurate PSF Planetarium at Science Centre, Faisalabad on August 7, 2017

INSIDE

Awareness Seminar on "EU Research & Innovation Program HORIZON-2020"



3

Project Formulation Workshop Organized in Bahawalpur



3

Training workshop on "Make your research life easier with Mendeley Tool" at PASTIC



7

From the Chairman

values.

One of the major reasons in Pakistan for lagging behind other countries and nations in the field of science and technology is our faulty education system right from primary to higher education.

We need to do soul searching, re-evaluate our education system and education policy, especially the selection criteria for the teachers and the people should not become teachers until they are worth it.

Is it advisable to establish university in every nook and corner of the country in the absence of quality faculty?

It is a national responsibility to improve higher education standards through drastic changes in our education system and the people who don't have worth of a teacher should not be given this responsibility of building the nation as incompetent and ineligible people will produce people like them who will lead the country to nowhere but destruction.

planetarium will provide one of the great tools for achieving the aim.

Ex-president Faisalabad Chamber of Commerce Ch. Muhammad Nawaz appreciated the efforts of Science Centre Faisalabad for creating a significant and interesting thing in the form of planetarium.

The Chief Guest, Mr. Fazal Abbas Maken described the importance of S&T in growing world. He appreciated the efforts of PSF for promoting S&T. He termed the Planetarium a great achievement of PSF.

The Chief Guest also inaugurated the STFS Mobile labs by cutting ribbon. He also visited the mobile lab buses and appreciated the PSF efforts. He also visited the natural hall and physical hall of the Science Centre and took an interest in every science model. All the students and guests also visited the planetarium they graced us with their valuable words.

Tandojam: The inauguration ceremony of Science Talent Farming Lab was also held on August 29, 2017 at Science Caravan Sindh Unit Tandojam. Prof. Dr. Mujeeb udin Memon, Vice Chancellor, Sindh Agriculture University, Tando Jam, Dr. Muhammad Ismail Kumbhar, Director UA & FA,

introduced the activities of his organization.

Sindh Agriculture University, Tando Jam, Chinese delegation participated in the event.

Dr. Mujeebuddin Memon, Vice Chancellor, Sindh Agriculture University, Tando Jam inaugurated the Science Talent Farming Lab. Mr. Khalid Hussain Soomro, Assistant Director, Science Caravan Sindh Unit Tando Jam briefly

Sukkur: The Officers / Officials of Regional Office Sukkur of AIOU visited the Mobile Science Lab on August 30, 2017 and appreciated the activity launched by PSF.

Training Session: A Training session for New STFS Mobile Science Labs for Caravan teams from Sukkur, Tandojam, Jaffarabad and Quetta was arranged regarding handling and operation of Mobile Science Lab and Learning Management System (LMS) at Science Centre Faisalabad on August 25, 2017. Mr. Zulfiqar Ali Soomro and Mr. Muhammad Usman, Web Manager-PASTIC conducted the training session.



Training session for New STFS buses for Caravan Teams from Sukkur, Tandojam, Jafarabad and Quetta at Science Centre-Faisalabad



The Officials of AIOU Regional Office Sukkur visiting the Mobile Science Lab



The Science Talent Farming Lab being inaugurated in Tandojam

Quote of the Month

Science means constantly walking a tightrope between blind faith and curiosity; between expertise and creativity; between bias and openness; between experience and epiphany; between ambition and passion; and between arrogance and conviction - in short, between an old today and a new tomorrow.

– Heinrich Rohrer

Awareness Seminar on "EU Research & Innovation Program HORIZON-2020

Pakistan Science Foundation (PSF) organized an awareness seminar on "EU Research & Innovation Program HORIZON-2020" at Bahauddin Zakairya University, Multan on August 24, 2017.

The researchers from academia and R&D institutes of the Southern Punjab were participated in the Seminar.

Speaking on this occasion, Chairman PSF Prof. Dr. Muhammad Ashraf called upon the scientific community of Southern Punjab to take benefit from the available exotic funding by participating in the HORIZON-2020 Programme. He said that seven Pakistanis have already been successful in securing funding under this



(L to R) Prof. Dr. Saeed Akhtar, Director ORIC, Bahauddin Zakairya University, Multan, Prof. Dr. Muhammad Ashraf H.I., S.I., Chairman, Pakistan Science Foundation, Ms. Anne Marchal, Chargé d' Affaires, a.i. the delegation of the European Union to Pakistan and Prof. Dr. Masood Akhtar, Acting Vice Chancellor, Bahauddin Zakairya University, Multan on the occasion of Awareness Seminar on "EU Research & Innovation Program HORIZON-2020" on August 24, 2017 at BZU, Multan

programme with overall success rate of 30 percent. Pakistan has a lot of potential and we must make sure that we get enough international linkages to take benefit from such programmes and play our

role in the socio-economic development of the country, he added.

Ms. Anne Marchal, Chargé d' Affaires, the Delegation of the European Union (EU) to Pakistan herself delivered a

detailed presentation at the seminar and apprised the scientific community about the ways and means to hunt grants from the EU Research & Innovation Program HORIZON-2020. She also guided the researchers about different types of research grants available and the procedures to look for the relevant disciplines, deadlines and find the collaborating partners through the Contact Points available on EU website. However, she said that the innovation and quality is the only merit at EU.



Souvenirs being presented to guests at the Seminar

Project Formulation Workshop Organized in Bahawalpur

Pakistan Science Foundation (PSF) organized a two-day Workshop on Project Formulation at Government Sadiq College Women University, Bahawalpur on August 22-23, 2017. The workshop was organized to empower researchers in preparing fund winning proposals. Prof. Dr.

Muhammad Ashraf, Chairman PSF, Islamabad graced the closing session as the chief guest.

Prof. Dr. Talat Afza, Vice Chancellor, Government Sadiq College Women University (GSCWU), Bahawalpur was also present on the occasion. Prof. Dr. Talat Afza welcomed Chairman, PSF, guests and



The Chief Guest, Chairman PSF, Prof. Dr. Muhammad Ashraf at the Closing Ceremony of Project Formulation Workshop at Government Sadiq College Women University, Bahawalpur.



Chairman PSF Prof. Dr. Muhammad Ashraf addressing the closing ceremony



Prof. Dr. Talat Afza, Vice Chancellor, GSCWU, Bahawalpur addressing the closing ceremony

participants of the workshop. She asked the participants to take full advantage of the expertise of PSF experts. Prof. Dr. Shafiq-ur-Rehman, Pro Vice Chancellor, Kohat University of Science and Technology and Dr. Mirza Habib Ali were the resource persons at the workshop.



Chairman PSF Prof. Dr. Muhammad Ashraf and VC GSCWU Prof. Dr. Talat Afza awarding certificate to the participants

CEO Education Authority, Chairman PSF Visit Science Centre Faisalabad

PSF Chairman Prof. Dr. Muhammad Ashraf and CEO Education Authority Dr. Javed Iqbal Chishti along with his team including AEOs and DEOs visited the Science Centre Faisalabad on August 25, 2017. A meeting was also held in the office of Deputy Director (STI) PASTIC Sub-Centre/Officer In charge



Chairman PSF Prof. Dr. Muhammad Ashraf and CEO Education Authority Dr. Javed Iqbal Chishti along with his team visit Science Centre, Faisalabad on August 25, 2017.



Science Centre Faisalabad. The meeting was chaired by the Chairman PSF. Problems and issues of science

education from primary to secondary education were discussed in details. The CEO Education Authority and the Chairman PSF made a resolve for future cooperation and coordination for popularization of science throughout the Faisalabad region.

Popular Science Lectures

Peshawar: Science Caravan Peshawar unit arranged Popular Science Lecture on the theme “Components of Human Nutrition” delivered by Dr. Imtiaz Ali, Directorate of Curriculum & Teacher Education, Abbottabad on 24th August, 2017 during Science Caravan Exhibition in GGHSS- Garhi Habibullah district Mansehra. The lecture programme was attended by over 200 students and teachers.



Glimpses of Popular Science Lecture arranged by Science Caravan Peshawar unit

Quetta: The Science Caravan Quetta unit arranged two lectures at Govt. Boys High School Lore Carez Munir Ahmed Road, Quetta on August 30, 2017. Mr. Abdul Khalique Unit Incharge delivered

lecture about World Pollution which is the most serious issues of the modern times. Over 100 students and teachers participated in this programme. The School Principal, Abdul Manan Baloch appreciated PSF role.



Popular Science Lecture arranged by Science Caravan Quetta unit

Jaffarabad: PSF Science Caravan Jaffarabad Unit arranged one Day Popular Science lecture on "Environmental pollution; its effect & Control Measures" at Govt. Girls School Bhagia Khan Usta Muhammad on 19th August 2017. Mr. Sadam Manzoor Abro, Health Safety Environment Officer Uch Power Plant Pot delivered the lecture. Over 140 students teachers and guests also participated in the program. DEO Jaffarabad Mulla Muhammad Umrani, DDOE Usta Muhammad Shah Bux specially participated in lecture.



Popular Science Lecture arranged by Science Caravan Jaffarabad unit

Science Caravan Exhibitions

The Science Caravan Peshawar Unit arranged an exhibition at GGHSS-Garhi Habibullah, District Mansehra on August 21-26, 2017. Over 1,447 students and 62 teachers from six schools participated in the activity. The Unit also celebrated Independence Day on 14th August at GHSS-Pakha Ghulam at Peshawar which



14th August Celebration by Peshawar Unit was attended by 70 students and teachers.



View of Science exhibition arranged by Peshawar Unit

25 STFS Students Participate in LIYSF-2017

A group of 25 students along with two chaperons Mr. Jamil Qureshi, Project Director, Science Talent Farming Scheme (STFS), PSF and Mr. Abdul Rauf, SSO-STFS participated in London International Youth Science Forum-2017 at Imperial College London on July 28 to August 10, 2017. The students took part in different activities of the forum and the group also met with the Pakistani High Commissioner in UK. The activity, on one hand gave healthy competition environment to the students and on the other hand helped a lot in developing their inter-personal skills and capabilities.



A group photo of STFS students with Pakistan High Commissioner at UK

Pakistan Museum of Natural History (PMNH)

Editor: Dr. Muhammad Ismail Bhatti

Geology Students Completing Internship at PMNH

A group of 50 students of BS Geology, University of Haripur, KPK are engaged in Summer Internship Programme with scientists of Earth

Sciences Division. The students are taking keen interest in different practical and theory sessions with the geologists. Mr. Aamir Yaseen, Mr. Khalid

Ahmed Mirani and Mr. Khaliur-Rehman gave them lectures and arranged practical laboratory practices. PMNH and University of Haripur have

already signed MoU for joint research activities and this internship programme is the part Memorandum of Understanding.



Training of students of Haripur University

A group of 25 students of BS Forestry and Wildlife from University of Haripur KPK completed one-week training at

PMNH. During the training, special lectures were arranged for the group. Dr. Muhammad Ismail and Dr. Syed Aneel Ahmed Gilani

gave lectures on different topics like: plant taxonomy, insect pest of forest, forest conservation, role of fungi in forest eco-system. The

students and their teachers appreciated the administration of PMNH for arranging such facility for students.



Geologists Carry Out Field Work in Gilgit-Baltistan

A team of Geologists from Earth Sciences Division of PMNH comprising Mr. Aamir Yaseen, Associate Curator, Mr. Khalil-ur-Rehman, Research Associate, Mr. Zeeshan Arshad, Collection In-charge carried out one month field work in Gilgit-Baltistan and its adjoining areas for the purchase of gemstone specimens from

different mines for the up-gradation/beautification of Gemstone Gallery of PMNH, study and collection of mineral /rock samples.

Rock specimens of rhydacite, Granodiorites, Diorites, Granites, Garnet Mica Schist, Biotite Schist, Blue Slate, Augen Gneiss, Granodiorites, Diorites, Granites and

Agglomerates were collected and also purchased large size gemstones including Topaz plate, Aquamarine + Mica flower, Epidote + quartz plate, Epidote, Fluorite plate, Albite plate, Axinite plate, Garnet + Quartz, Garnet, Axinite + Epidote plate, Quartz + Pyrite plate, Tourmaline + Quartz plate, Quartz+Topaz plate,

Calcite plate, Quartz plate, Feldspar, Mica sheet plate, Quartz crystal small, Calcite crystals small.



PMNH Documentary Aired on PTV News

PTV News telecast documentary on PMNH prepared by reporter Namra Suhail. Such programmes are very helpful in highlighting natural resources of Pakistan and education on their sustainable use. Sach TV and Khyber TV also aired interview of DG PMNH Dr. Muhammad Rafique about the educational and research activities of the organization.

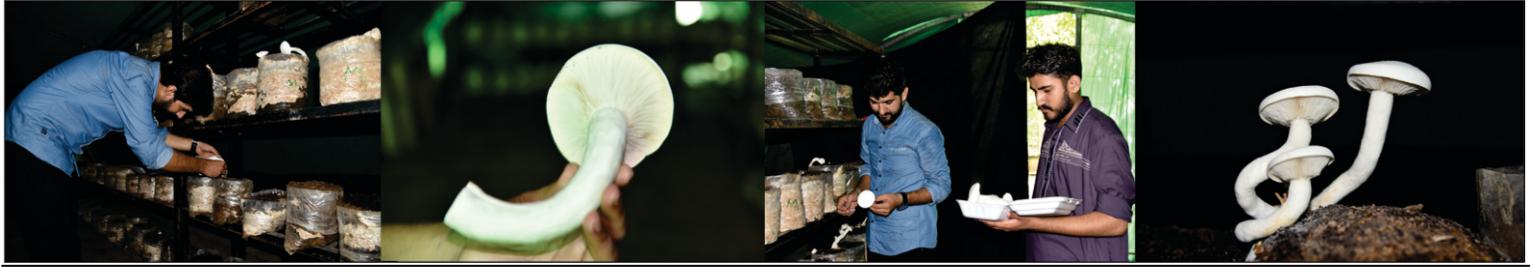
Mushroom Garden at PMNH

Mushrooms are part of a larger group of plants known as Fungi. A fungus is different from an ordinary green plant because it can't make its own food. Fungi have been around since prehistoric days. Remains of fungi have been found in dinosaur pits. The

Egyptian pharaohs (kings) reserved mushrooms for their own plates. It was forbidden for anyone else to eat them. They believed the mushrooms had magical powers. The ancient Romans fed mushrooms only to their warriors because they believed mushrooms gave

them strength. Other than this its edibility and medicinal value to educate peoples about Mushrooms PMNH has established a Mushroom Garden on instruction of worthy Chairman PSF. Recently Milky Mushroom (*Calocybe*

indica) and Oyster Mushroom (*Pleurotus ostreatus*) are grown for educational purpose. Students and general public visited Mushroom Garden during their visit to PMNH and ask questions about mushroom cultivation and edibility value.



PMNH Remained Open for Public on Independence Day

The nation celebrated 70th Independence Day on August 14, with a renewed pledge to safeguard the motherland against any threat and make it a

true Islamic welfare state as envisioned by founding father Quaid-e-Azam Muhammad Ali Jinnah. Keeping in view the importance of the day PMNH

display galleries remained open for visitors. Special documentaries were arranged in the audio visual hall for visitors. PMNH building decorated with

Pakistani flags and special light system was arranged in night time. A large number of visitors visited PMNH galleries during the Independence Day.

18,741 Persons Visit PMNH Display Galleries in August, 2017

A total 18741 persons including 232 students, 14339 general public, 15 foreigners and 4155 children under 5-year of age visited the Museum galleries in August 2017.

Student groups from major institutions of various parts of the country that visited the Display Galleries and Repositories in

August included; General Nursing School (Sargodha), University of Haripur, University of Bunier, Arid Agriculture University Rawalpindi, University of Gujrat, GGHS Rawalpindi, British School (Sawabi), Siraj-ul-Munier Public School Kotli, Chinab Collage Chinote, Kohat University, Islamabad Model School.



Pakistan Scientific & Technological Information Centre (PASTIC)

Editor: Rahila Khurram

Training workshop on “Make your research life easier with Mendeley Tool” at PASTIC

Mendeley is a cross-platform application (Windows, Mac, Linux, iPhone) that helps researchers manage and annotate their Scientific paper collections. Citation data from its cloud library can be accessed across multiple devices e.g., Laptop, PC, iPhone etc.

In order to enhance the research capabilities and to inculcate modern thesis writing trends, PASTIC National Centre

regularly organizes training workshops on Mendeley. In this regard, PASTIC organized a training workshop on “Make your research life easier with Mendeley Tool” at PASTIC National Centre, Quaid-e-Azam University Campus, Islamabad on August 16-17, 2017.

The objective of this workshop was to build the capacity of young researchers and to enhance their skills in literature search, citation, sharing and



A glimpse of the Mendeley Workshop at PASTIC



Dr. Ayesha Rauf, HOD, Department of Health Professionals Education, Shifa College of Medicine, Islamabad distributing certificates to Participants on closing ceremony of Mendeley Workshop.

discovering of new research. The workshop included practical sessions, where an opportunity was provided to learn and practically use different features in Mendeley application starting from creation of Mendeley account to insertion of bibliography in MS Word application.

Dr. Ayesha Rauf, HOD, Department of Health Professionals Education, Shifa College of Medicine, Islamabad was the chief guest

at the closing ceremony. She also distributed certificates among the participants. Dr. Maryum Ibrar Shinwari, Senior Scientific Information Officer (PASTIC) and Mendeley Advisor, was the resource person of the workshop. 29 Participants (student and faculty members) from academia (Quaid-e-Azam University, Shifa College of Medicine, PIDE, AIOU, CIIT, PIMS) participated in this hands on training workshop.

Training workshop on “Strengthening Innovative Library Leaders (SILL)” at Muzaffarabad

PASTIC Sub Centre Muzaffarabad organized a two days training workshop on “Strengthening Innovative Library Leaders (SILL)” with the collaboration of the University of Azad Jammu & Kashmir, Muzaffarabad,

August 10-11, 2017.

The aim of this training workshop was to provide the instruments and knowledge required to enhance the leadership effectiveness of the librarians to react to rapidly shifting competitive landscape

of changing information technology and users about latest developments in Science & Technology. The role of

PASTIC in this regard was emphasized during the workshop. 42 Librarians from Azad Kashmir attended this



Prof. Dr. Muhammad Kaleem Abbasi (Vice Chancellor) addressing the Inaugural Ceremony of Workshop



Syed Habib Akhtar Jaffri Principal Librarian delivering a presentation during the Inaugural Ceremony of workshop

workshop.
Prof. Dr. Muhammad Kaleem



Prof. Dr. Muhammad Kaleem Abbasi,
Vice Chancellor, AJK University,
Muzaffarabad distributing the certificates
to the participants

Abbasi, Vice Chancellor, University of Azad Jammu & Kashmir, Muzaffarabad was the Chief Guest of the workshop. He also distributed the certificates to the participants of the workshop. Dr. Muhammad Tariq, In-charge, Library Information Services, COMSATS Institute of Information, Lahore and Syed Habib Akhtar Jaffri Principal Librarian, PASTIC were the resource persons.



Group Photo of the Participants of the workshop with Vice Chancellor

PASTIC holds meeting with Lahore Garrison University (LGU)

A Meeting was held between PASTIC and Lahore Garrison University (LGU) on 25



Mr. Kaukab Jamal Zubairi, Director DFRSC,
LGU giving presentation about LGU

August, 2017 in the office of the Director PASTIC to explore joint collaboration between the two organizations. Presentations were delivered by Mr. Saifullah Azim, Principal System Analyst, PASTIC and Mr. Kaukab Jamal Zubairi, Director DFRSC, LGU, highlighting their organization's achievements and focusing on areas of mutual interest.

For the time being it was agreed

by both, LGU and PASTIC, that training programmes on topics such as Information & Cyber Security and digital Forensics can be organized jointly, since LGU has expertise in this area and PASTIC has other training facilities and infrastructure for conducting such programmes. Besides this type of training is in demand in every organization and is the need of the hour.

The first training programme will be launched in the end of September, 2017 at PASTIC, Islamabad to create awareness on Digital Forensics and Cyber Security challenges both for professionals and non-professional groups belonging to public and private sector organizations like State Bank, NAB, Auditor General Pakistan, Police, Prosecutor General Punjab, Ministry of IT, Safe Cities Authorities.

Awareness Seminars for the Promotion of PASTIC Services

PASTIC arranged following three awareness seminars in following Universities:

● Zoology Department, University of Balochistan, Quetta

The PASTIC Sub Center, Quetta arranged a one day seminar on PASTIC activities at the Department of Zoology, University of Balochistan, Quetta on August 04, 2017. Mr. Faisal Hilal, Asstt. Documentation Officer, PASTIC, delivered a presentation on PASTIC Information Services to the students, researchers and faculty members of the department.

● University of Balochistan, Quetta

The PASTIC Sub Center, Quetta arranged a one day seminar on PASTIC activities at Department of Biochemistry, University of Balochistan, Quetta on August 24, 2017. Mr. Faisal Hilal, Asstt. Documentation Officer, PASTIC, delivered a presentation on PASTIC Information Services during this seminar.

● Jinnah University for Women at Karachi

The PASTIC Sub Center, Karachi arranged a one day seminar on PASTIC services at Jinnah University for women, Karachi on August 21, 2017. During the seminar, Mr. Abdul Fateh Shaikh, Deputy Director (STI), PASTIC Sub Center, Karachi delivered a

presentation on PASTIC Information Services to the students, researchers and faculty members. More than 50 faculty members and researchers attended the seminar.



Mr. Abdul Fateh Shaikh, Deputy Director (STI), PASTIC Sub Centre, Karachi,
delivering a presentation on PASTIC Information Services

Pakistan Science Foundation

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

Pakistan Museum of Natural History

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

PASTIC National Centre

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

Layout: Abdul Rasool, PMNH