



Governor urges youth for knowledge economy



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Pak-Turk relations to strengthen further

PAKISTAN and Turkiye enjoy strong relations and the feelings of brotherhood prevail over the people of both the countries. The nations of both countries have helped each other in every testing times.

Muhammad Ali Jinnah's ideas were inspired from the Ottoman Empire, while the Muslims of the subcontinent helped a lot in the Khilafat movement. Poet of the East and Thinker of Pakistan Allama Muhammad Iqbal is among one of highly respected personalities in Turkiye.

Turkiye has the highest regards and acknowledge the sacrifices of the Muslims of sub-continent during Khilafat Movement. Due to these affable relations, the nations of both countries have helped each other in calamities like floods and earthquakes. Pakistan was the first to reach Turkiye during the recent earthquake in Turkiye.

Turkiye has also celebrated 75th anniversary of diplomatic relations between the two countries, which is commendable. Turkiye has taken many steps to promote higher education linkages with Pakistan.



HONORABLE MR DARMUS BASTUG
CONSUL GENERAL, TURKIYE

Thousands of Pakistan students are studying in various academic institutions in Turkiye.

Both the countries also share a common stance in support of the oppressed Muslims in Palestine and Kashmir and both the countries

have always come forward to help them. We are happy that the people of Pakistan are taking interest in Turkish culture and language and it will help strengthen our relations further. ■

Knowledge economy a key to progress



PROF. DR. KHALID MAHMOOD
VICE CHANCELLOR UNIVERSITY OF THE PUNJAB

THE latest trends in innovation, technology, knowledge and prevailing circumstances of economy have transformed the landscapes of academic qualification and its scope. Knowledge economy is now key for development of the nations and individuals. Any higher degree program, which does not equip the graduates with market-oriented skills, is becoming irrelevant and worthless. Our teachers and students must understand that knowledge, training and skills are more important than degrees. If we are committed to the development of our country, our nation and ourselves, we need to learn relevant skills associated with our relevant fields. It has become compulsory for the institutions of higher learning to produce skilled human resource in order to move in a competitive world. Development and change in any society cannot come without education and as a state and society we have to realize it. There is a need to ensure such practical steps which can strengthen industry-academia-society linkages. The institutions of higher learning must come forward and bridge gap between the industry and academia. Such platforms should be established where both the sectors could fulfill each other's requirements for overall development of Pakistan. ■

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Editorial Note

PU Chancellor and Punjab Governor Balighur Rehman has said that investment on youth is pivotal for the growth of the county. "Role of youth is important for the development of Pakistan and our youth must contribute fully to make this country a knowledge economy."

He was addressing the Prime Minister's Laptops Distribution ceremony at PU Quaid i Azam campus Al Raazi Hall. He termed the investment on youth as the best investment for the nation building. Punjab University being the largest alma mater of the country with 52,000 enrolled students is playing its part for youth development to the optimum capacity. The lowest tuition

fee, best accomodation facility at hostels, transportation services, sports facilities, special focus on cocurricular activities, enriching classroom environment where students from all sections of society and all provinces including GB and Kashmir have encouraging representation. Every year a huge budgetary allocation is make for the heads of student scholarships and faculty research grants. These all measures make this alma mater a key player in the youth development and nation building. During recent years after increase in number of students, the varsity experienced financial issues and deserves matching support from the federal government, HEC and provincial government. ■

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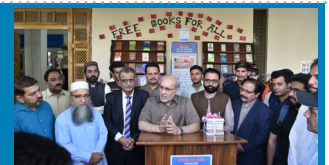
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Governor urges youth for knowledge economy



Governor Punjab / Chancellor Punjab University Muhammad Baligh-ur-Rehman distributes laptops on merit basis among students under the Prime Minister Laptops Distribution Ceremony Phase-III.

GOVERNOR Punjab / Chancellor Punjab University Muhammad Baligh-ur-Rehman has said that the role of youth is important for the development of Pakistan and the youth should play their full role in taking the country towards a knowledge economy. Youth is our the most precious asset, on whom investment is the best investment, he added.

He was addressing the Prime Minister Laptops Distribution Ceremony Phase-III at Al Raazi Hall. On this occasion, PU Vice Chancellor Prof. Dr. Khalid Mahmood, Registrar Dr. Ahmad Islam, Director General Information Technology Prof. Dr. Kamran Abid, Director-in-charge of

Higher Education Commission Lahore Chaudhry Ghafoor Ahmed, representatives of Punjab Higher Education Commission, faculty members and a large number of students were present.

Muhammad Baligh-ur-Rehman, in his address, said that there is a need to develop skills among the youth so that they can shine the name of the country and the nation inside and outside Pakistan. He said that the future of humanity and Pakistan is connected with merit, balance and transparency. He said that in the modern era, the digital divide is increasing and those who have access to technology are moving ahead and those who don't have access are left behind.

He said that Pakistan's software exports are increasing and the world is fan of Pakistani software engineers' gaming products. He said that Pakistan is moving fast among e-lancing countries, which is a welcoming thing. He said that it is a matter of pleasure that laptops are being distributed on merit to encourage students. He said that laptops are being distributed without any political and religious affiliation. He said that the impression on social media that we are giving laptops to the youth to win them is completely wrong. He said that during the time of Nawaz Sharif and Shahbaz Sharif governments, when the laptop scheme was launched, only merit was

given the first priority. He said that we have distributed hundreds of thousands of laptops purely on merit which changed the destiny of young students. He said that educated people make decisions based on logic and facts and our educated youth should also vote for the party they like best. He said that a disappointed nation can never progress and we must identify the elements that are spreading disappointment. He said that we have to get the nation out of disappointments for which positive aspects have to be highlighted.

He said that some elements consider it good to tarnish Pakistan and harm the country and nation. He said that respect for each other's opinion is necessary to make the society beautiful. He said that teachers have to take steps for character building of students. He said that our religion has taught us not to believe in hearsay, but to do research, whereas today everything we hear is accepted and forwarded on social media.

He said that even today, efforts are being made to promote anger and negative thinking among the youth due to the its negative usage. He said that accusations were made against us that the commission was being made out of the hospitals we built, then why didn't the same people build hospitals during their time? He said that by keeping the laptop scheme closed from 2018 to 2022, anger was filled among the hearts and minds of the youth.

He said that from 2018 to 2022, the heaviest loans in the history of Pakistan were taken and people were told about inflation by accepting IMF conditions. He said that in the last year of their government, an attempt was made to default Pakistan by halting the prices of petroleum products. He said that if the government formed under the leadership of



PU VC Prof. Dr. Khalid Mahmood presents a souvenir to Governor Punjab / Chancellor Punjab University Muhammad Baligh-ur-Rehman.

Shahbaz Sharif had not taken timely measures, the dollar and inflation would not have come under anyone's control.

He said that despite the country being on the brink of default, Shahbaz Sharif did not forget to give laptops to the shining students. He said that the world is paying tribute to us for the teaching of the Holy Quran in schools and laptops. He said that in 2015, we formed the National Curriculum Council, which was greatly encouraged by Nawaz Sharif. He said that in 2018, the Holy Quran was being taught in all the schools in Islamabad.

He said that our next goal is to ensure Quran education in private schools as well, while the translation of the Quran will be taught from the sixth to the twelfth grade. He said that during our previous regime, the first combined translation of the Holy Quran was prepared in which scholars of all religions were included.

He said that during 2018 to 2022, the

number of out-of-school children has increased as a result of poor policy and unfortunately Pakistan has become number 1 country on this issue. He said that the higher education budget was increased from 34 billion rupees in 2013 to 120 billion rupees in 2018 during the PML-N regime. He said that the ranking of Transparency International is an indicator that corruption has increased in the country under whose government.

Dr. Khalid Mahmood, while addressing the ceremony, said that on the instructions of the Governor Punjab, Punjab University is working according to merit and law. He said that 117,000 children applied online for admissions in Punjab University this year and 18,000 students were given admission on 100% merit.

He said that hostels were also given to 2 thousand children on merit. He said that 3,600 students are getting laptops in Punjab University, which has certainly encouraged our children. He hoped that the use of laptops would help students in research.

Dr. Kamran Abid said that students are playing their role in the digital knowledge-based economy with laptops and the trend of freelancing is developing in the country. He said that we are starting various computer programs with the support of various institutions. He said that free internet facilities are being provided to the students in the campus while many issues in the campus are now being handled under the digital system.

Later, Governor Punjab distributed laptops among 26 students in the ceremony. ■



A group photo of students along with Governor Punjab / Chancellor Punjab University Muhammad Baligh-ur-Rehman and PU VC Prof. Dr. Khalid Mahmood on the occasion of Prime Minister Laptops Distribution Ceremony Phase-III.

PU's 26 scientists declared among top 2 percent best researchers worldwide



A group photo of PU VC Prof. Dr. Khalid Mahmood with top 2 percent best researchers.

In another evaluation sheet of the top two percent researchers of the world prepared by Stanford University California in its 6th version, as many as 17 more faculty members of Punjab University have been ranked among the best researchers and now the total number of PU teachers stands 26.

The list has been compiled by Prof. John Ioannidis of Stanford University and his team. The list has on the top 100,000 scientists from several disciplines from higher education institutions across the globe. In the evaluation of life-time research work, ten PU Professors were figured in top two percent researchers of the world while in the evaluation of one year research work; another 17 teachers of Punjab University have been ranked among top two percent.

The 26 PU professors include PU Vice Chancellor Prof. Dr. Khalid Mahmood (ranked in the field of Information & Library Sciences), Dr. Muhammad Akram, Department of Mathematics (ranked in the field of Artificial Intelligence & Image Processing), Dr. Adeel Afzal, Institute of Chemistry (ranked in the field of Analytical Chemistry), Dr. Ejaz Ahmad, Institute of Chemistry (ranked in the field of Networking & Telecommunication), Dr. Talat Islam, Institute of Business Administration (ranked in the field of Business & Management), Dr. Usman Mahmood, Centre

for Remote Sensing (ranked in the field of Environmental Sciences), Dr. Arshad Javaid, Department of Plant Pathology (ranked in the field of Plant Biology & Botany), Dr. Zeeshan Yousaf, Department of Mathematics (ranked in the field of Nuclear & Particle Physics), Dr. Saima Arshed, Department of Mathematics (ranked in the field of Optics), Dr. Abdul Rehman, Institute of Microbiology & Molecular Genetics (ranked in the field of Zoology), Dr. Nauman Raza, Department of Mathematics (ranked in the field of General Physics), Dr. Muhammad Imran Din, Institute of Chemistry (ranked in the field of Chemical Engineering), Dr. Muhammad Riaz, Department of Mathematics (ranked in the field of Artificial Intelligence & Image Processing), Dr. Zahoor H. Farooqi, Institute of Chemistry (ranked in the field of Polymer), Dr. Robina Begum, Institute of Chemistry (ranked in the field of Chemical Physics), Dr. Muhammad Hassan (ranked in the field of Applied Physics), Dr. Misbah Sultan, Institute of Chemistry (ranked in the field of Polymers), Dr. Kaleem Ullah, PUCIT (ranked in the field of Artificial Intelligence & Image Processing), Dr. Muhammad Shafiq, Department of Industrial Engineering & Management (ranked in the field of Inorganic & Nuclear Chemistry), Dr. Abdul Rauf Shakoori, School of Biological Sciences (ranked in the field of Zoology), Dr.

Saira Riaz, Centre of Excellence in Solid State Physics (ranked in the field of Materials), Dr. Zaeem-ul-Haq Bhatti, Department of Mathematics (ranked in the field of Nuclear & Particle Physics), Dr. T. Hussain, Centre for High Energy Physics (ranked in the field of Nuclear & Particle Physics), Dr. Aziz Ullah Awan, Department of Mathematics (ranked in the field of General Physics), Dr. Zia-ul-Haq, Department of Space Science (ranked in the field of General & Internal Medicine) and Dr. Abdul Nasir Khalid, Department of Botany (ranked in the field of Mycology & Parasitology).

PU Vice Chancellor Prof. Dr. Khalid Mahmood has congratulated the PU professors for achieving this prestigious rank and appreciated their efforts for boosting the ranking of the university. He said that this is really good news on the eve of Teacher's Day. The VC said that the administration has taken several initiatives for improvement in international ranking of the university due to which PU's subject-wise and overall ranking has improved manifold.

He said that the PU administration would provide full support to the faculty members and researchers who were doing research having positive socio-economic impact and making efforts for improvement in international ranking of the university. ■

THE ranks PU first in 3 subjects across Pakistan

THE Times Higher Education has ranked Punjab University no. 1 in Pakistan in the subjects of social sciences, education and psychology. In the recent ranking, this year Pakistani HEIs have been ranked in 9 subjects.

In 2018, a dedicated ranking committee was established in the Punjab University under the leadership of Prof. Dr. Khalid Mahmood. Since then, the university has significantly raised its position in various international rankings.

PU VC Prof. Dr. Khalid Mahmood, in a

press statement, has expressed hope that the faculty and students of these disciplines will focus on retaining their leading position in Pakistani HEIs.

He said that this development was not possible without the dedicated effort of faculty, students and staff. ■

PU faculty member participates in International workshop



PUNJAB University Space Science's Associate Professor and Co-PI of Remote Sensing GIS and Climatic Research Dr. Khalid Mahmood hosted an international session on collaboration and linkages pertaining to earth observation during the 30th workshop titled 'Space Technology for Socio-economic

Benefits: Challenges and Capacity Building Opportunities for Emerging Space Nations'. The workshop was jointly organized by the United Nations Office for Outer Space Affairs (UNOOSA) and the International Astronautical Federation (IAF) in Baku, Azerbaijan.

Dr. Khalid said that the session stands as a testament to the global commitment

towards harnessing space technology for the larger benefit of humanity and the planet. He said that the workshop is another step forward in creating a more inclusive, cooperative and technologically advanced future for Earth Observation.

According to Dr. Khalid, the session was a confluence of thought leaders, experts, and policymakers from both developing and developed nations. He said that a special focus was accorded to the concerns faced by emerging space nations, which include but are not limited to data availability, processing limitations and the potential for international partnerships to address these issues.

He said that one of the pivotal points of discussion revolved around the incapacity of undeveloped nations to process complex EO data. As climate change becomes an increasingly pressing issue, the significance of leveraging earth observation data for effective decision-making can't be stressed enough, he added.

Dr. Khalid said that the collaborative nature of the discussions underscored the mutual benefits that can be derived from shared knowledge and resources. He said that the earth observation systems hold enormous potential for socio-economic development and collaborative efforts between nations can bridge the gaps in knowledge and resources, ensuring that every nation, regardless of its technological prowess, can benefit from the insights offered by these systems.

He said that with climate change at the forefront of global challenges, the discussions also touched upon future collaborative perspectives to address its ramifications using earth observation data. ■

PU HCC graduates get 9 CA papers exemptions



A group photo of PU VC Prof. Dr. Khalid Mahmood along with other participants at RDAI Certificate Award ceremony.

PUNJAB University Hailey College of Commerce (HCC) has received RDAI Certificate Award from Institute of Chartered Accountants of Pakistan (ICAP), making history as first public sector institute to achieve this milestone with 9 CA Exemptions for BS Accounting and Finance graduates.

HCC Principal Dr. Hafiz Zafar Ahmad, in his press statement, has said that the journey to this significant milestone began with the visionary efforts of ex-Principal Prof. Dr. Hassan Mobeen Alam, who initiated the development of the BS Accounting and Finance program while former Principal of college Prof. Dr. Zulfqar Ahmad, launched the degree program during his tenure.

He said that the incumbent college administration worked to enhance the value of the BSAF program.

He praised the efforts of a member of ICAP and HCC faculty member Prof. Salaih Muhammad along with Librarian and focal person for course mapping Asif Ali to achieve this remarkable recognition.

The commitment and hard work of all faculty members played a vital role in turning this vision into a reality, he added. In this regard, the award ceremony was organized by HCC and ICAP in which PU VC Prof. Dr. Khalid Mahmood, President of ICAP Ali Latif, Principal HCC Prof. Dr. Zafar Ahmad, Dr. Hassan Mobeen Alam, Dr. Zulfqar Ahmad, faculty members and students were present on this occasion.

Prof. Dr. Khalid Mahmood, in his address, acknowledged and applauded the ceaseless efforts of HCC's principals, faculty and staff who tirelessly worked to enhance the value of the degree programs and the college itself.

Ali Latif congratulated HCC's faculty and students for reaching this significant milestone and acknowledged the college's illustrious

history, noting that many chartered accountants in Pakistan are proud alumni of HCC.

Prof. Dr. Zafar Ahmad extended his heartfelt appreciation to all those involved and presented souvenirs to the dignitaries. He underlined the college's commitment to further augment its degree programs. He expressed a strong determination to align other degree programs with ICAP and collaborate with other professional bodies to continue elevating the significance of the degree programs offered by HCC.

He said that RDAI Certificate Award from ICAP is a testament to HCC's dedication to academic excellence and its pioneering efforts in the field of accounting and finance education.

He said that this achievement opens up new doors for students at HCC, as graduates from the BS Accounting and Finance program will receive exemptions for nine papers of the CA program offered by ICAP, providing them with a substantial advantage in their accounting careers. ■

Volleyball team gets runner up trophy



Punjab University Volleyball Team holding All-Pakistan Inter-University runner-up trophy.

PUNJAB University Volleyball Team won the runner-up trophy in the finals by demonstrating excellent performance in the All-Pakistan Inter-University Competitions.

The team of Punjab University had a tough competition with the team of University of Central Punjab in the final.

Teams from 200 universities from all over Pakistan including Lahore, Karachi, Peshawar, Quetta participated in the event. Punjab University team manager was Additional Director Sports Zubair Butt and Coach Umar Riaz. ■

Students clinch team trophy in quiz competition



PU team consisted of Ahmed Ijaz from Hailey College Banking & Finance and Ali Husnain from University Law College pose for a photo with their shields and certificates at Inter Pakistan Quiz Competition 2023.

PUNJAB University team comprised of Ahmed Ijaz from Hailey College Banking & Finance and Ali Husnain from University Law College has lifted the team trophy at the Inter Pakistan Quiz Competition 2023 organized by Fatima Jinnah Medical University. Director Students Affairs Dr. Muhammad Ali congratulated the students on this achievement. ■

CEMB projects receive thumbs up from PHEC evaluation team

A team from the Punjab Higher Education Commission (PHEC) visited the Centre of Excellence in Molecular Biology (CEMB) and evaluated two projects that were funded by PHEC. The team members gave positive feedback on both projects.

The first project, led by Dr. Abdul Qayyum and Dr. Ahmad Ali Shahid, focused on the genetic modification of aloe vera using human serum albumin to improve its cosmetic impact on human skin. The project received funding of 5 million Pakistani rupees from PHEC and successfully produced transgenic aloe vera plants with a high concentration of human serum albumin.

This breakthrough will lead to the commercialization of aloe vera that expresses human serum albumin, which will revolutionize the skin care product industry. The PHEC project evaluating team praised the project's outcome, stating that human serum albumin is costly in the market, and this research outcome will make it possible to have an alternative, cheap, and natural product.

The second project, led by Dr. Bushra Ijaz, received funding worth 8 million PKR from PHEC. The project focused on "Generation of SARS-CoV-2 spike and protease cell culture system screening of medicinal plants, plant-based compounds and molecular basis of interaction with host".

The project's completion resulted in the identification of six indigenous plants and nine plant-based compounds with anti-SARS-CoV-2 potential. The team members appreciated the efforts put into successfully achieving the project's objectives and said that it would help identify cost-effective and cytotoxic-free compounds from plant sources as an alternative medicine.

Overall, the successful completion of these two projects is a significant achievement for CEMB and PHEC. The breakthroughs made in these projects will have a positive impact on the development of alternative anti-SARS-CoV-2 medicines and the skin care product industry. ■



A team from the Punjab Higher Education Commission evaluating the projects of Centre of Excellence in Molecular Biology (CEMB) funded by PHEC.

Pak, Turkiye take strong position on Palestine, Kashmir



Turkiye's Consul General Mr. Durmus Bastug, PU VC Prof. Dr. Khalid Mahmood, Dr. Iram Khalid, Dr. Mahboob Hussain, Dr. Muhammad Hameed and Hafiz Muhammad Hassan sit on stage during a seminar organized by PU Department of Political Science, Department of History and Pakistan Studies, Department of Archaeology in collaboration with Turkiye Urdu on '100th anniversary of Turkey's and Pak-Turk Relations'.

TURKIYE'S Consul General Mr. Durmus Bastug has said that Pakistan and Turkiye have a strong stance regarding the oppressed Muslims in Palestine and Kashmir and both the countries have always come forward to help each other in difficult times. He was addressing at a seminar organized by Punjab University Department of Political Science, Department of History and Pakistan Studies, Department of Archaeology in collaboration with Turkiye Urdu on '100th anniversary of Turkey's and Pak-Turk Relations'.

On this occasion, PU Vice-Chancellor Prof. Dr. Khalid Mahmood, Chairperson Department of Political Science Dr. Iram Khalid, Chairman Department of History Dr. Mahboob Hussain, Chairman Department of Archeology Dr. Muhammad Hameed, Executive Director of Turkiye Urdu Muhammad Hassan, faculty members and students were present.

Mr. Durmus Bastug, in his address, thanked Punjab University and Turkiye Urdu for organizing the event. He said that there are deep and friendly relations between Pakistan and Turkiye and the nations of both countries have helped each other in calamities like floods and earthquakes. He said that many of Muhammad Ali Jinnah's ideas were inspired from the Ottoman Empire, while the Muslims of the subcontinent helped a lot in the Khilafat movement.

He said we celebrated 75th anniversary of diplomatic relations between Turkiye and Pakistan in Turkiye. He said that Pakistan was the first to reach Turkiye during the earthquake, which is commendable. He said that there are many scholarship programs between the two countries to promote education and last year 145 government scholarships have been given to Pakistanis.

He said that in ten years, 1518 scholarships have been distributed to Pakistani students while more than 3800 Pakistani students are getting education in Turkiye. He said that experts from Turkiye are helping to protect the manuscripts in Punjab University Library. He said that we are happy that the people of Pakistan are taking interest in Turkish culture and language because increasing language contact will further promote relations.

Dr. Khalid Mahmood congratulated Turkiye on the completion of 100 years. He said that the people of Turkiye have made unprecedented sacrifices for their land and traditions, which the Muslim Ummah is proud of. He said that Turkiye has always supported the oppressed. He said that during the Khilafat Movement and the 1965 War, the people of both the regions have fully supported each other.

Dr. Iram Khalid said that the people of both countries love each other. She said that Pakistan and Turkiye have the common position in international affairs. She said that the model of Turkiye should be adopted for the development of the agricultural sector in Pakistan. She said that there is a need to increase the relationship between the public universities of Turkiye and Pakistan. She said that the Turkish nation is very proud of its national traditions and there is a need to adopt this spirit. She emphasized the need to promote joint productions of Turkish and Pakistani dramas.

Dr. Mahboob Hussain said that Pakistan and Turkiye have always stood by each other in difficult times. He said that Turkiye and Pakistan are also working on many joint projects. He said that relations between the two countries are being promoted through Pak-Turkish school system.

Hafiz Hassaan said that there is a symbolic grave of Allama Iqbal at the mausoleum of Maulana Jalaluddin Rumi in Konya. He said that Tayyab Erdogan openly supported Pakistan's position on the Kashmir issue. He said that TIKA is funding various development projects in Pakistan. He said that steps are being taken to further promote trade between Turkey and Pakistan. ■



PU VC Prof. Dr. Khalid Mahmood presents a souvenir to Turkiye's Consul General Mr. Durmus Bastug.

VC inaugurates the Miyawaki Forest



PU VC Prof. Dr. Khalid Mahmood along with Chief Executive Officer Total Parco Asif Iqbal inaugurate the Miyawaki Forest at Botanical Garden, New Campus.

PUNJAB University Vice Chancellor Prof. Dr. Khalid Mahmood along with Chief Executive Officer Total Parco Asif Iqbal inaugurated the Miyawaki Forest at Botanical Garden, New Campus.

On this occasion, Director Institute of Botany Prof. Dr. Abdul Nasir Khalid, Director ORIC Prof. Dr. Shakil Ahmad, Resident Officer-II Muhammad Kashif Nazir Hanjra, faculty members and students were present.

Dr. Khalid Mahmood, while addressing the ceremony, said that as many as 12,000 Miyawaki saplings have been planted in 2 acres of land. He said that Punjab University is taking steps to make it greener.

He said that Miyawaki forests are the need of the hour to deal with environmental challenges. He said that the institution wants to develop strong links with the industry and hopes that other institutions will also follow his example.

Asif Iqbal said that climate change is a



PU VC Prof. Dr. Khalid Mahmood plants a sapling.

global problem that everyone has to play a role in solving. He said that Total Energy and Parco are working on renewable energy. He

said sustainability is essential for the success of projects. He said that we have to change our ways of living to overcome the problems. ■

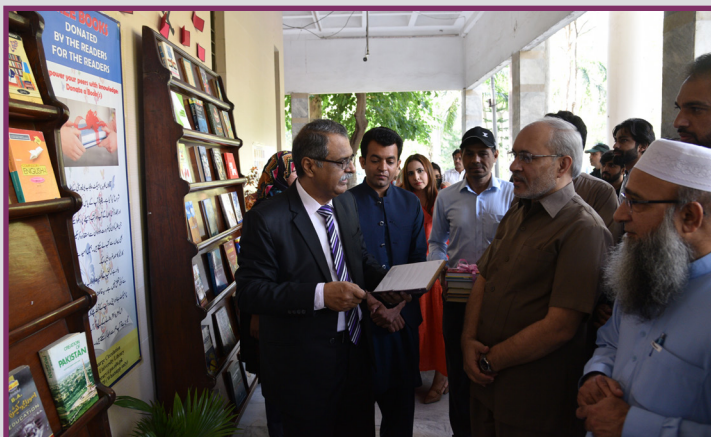
Free book project launched

PUNJAB University VC Prof. Dr. Khalid Mahmood has said that book reading is very important for personality development, mental growth and increasing academic knowledge. He was addressing the opening ceremony of a new project of the PU Library named "Free Books: Donated by the Readers for the Readers".

PU Chief Librarian Haroon Usmani, PU Librarians Organization President Chaudhry Saif-ur- Rehman and others were present on the occasion. He said that international societies are familiar with this concept of street libraries and have benefitted collectively for a long time. He was hopeful that although our society is not fully aware of the ethics, pattern of the use, and advantages of these libraries, soon it would become a popular practice. He encouraged the students that all should participate in this project by donating their books to other needy students. He further said that by this practice more can be benefitted in limited financial resources. To actively put his contribute in the project he donated some books on the occasion.

Dr. Muhammad Haroon Usmani thanked Dr. Khalid Mahmood and said that with his support, the library is promoting the trend of positive activities among the students of Punjab University.

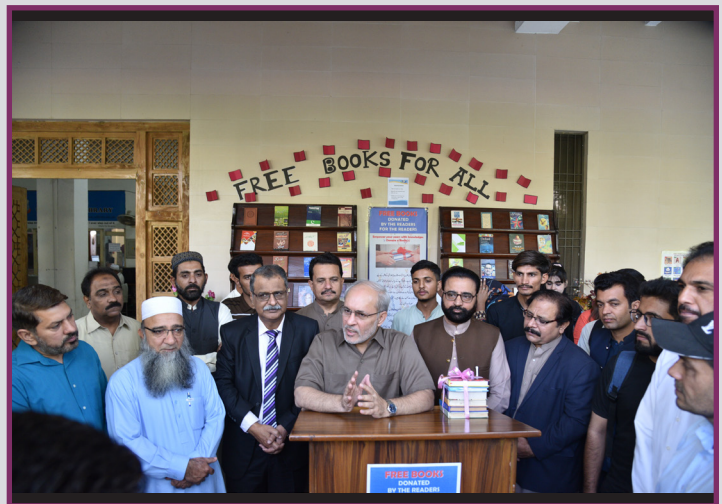
PU Chief Librarian Muhammad Haroon Usmani gives briefing to PU VC Prof. Dr. Khalid Mahmood about newly launched project of the PU Library. ■



PU Chief Librarian Muhammad Haroon Usmani gives briefing to PU VC Prof. Dr. Khalid Mahmood about newly launched project of the PU Library.



PU VC Prof. Dr. Khalid Mahmood inaugurates a project of the PU Library named "Free Books: Donated by the Readers for the Readers".



PU VC Prof. Dr. Khalid Mahmood addresses the participants of the opening ceremony of "Free Books: Donated by the Readers for the Readers".

Knowledge, skills more important than degrees, Vice Chancellor



PU VC Prof. Dr. Khalid Mahmood, VC Allama Iqbal Open University Prof. Dr. Nasir Mehmood, former VC and author Dr. Shahid Siddiqui, Dr. Tariq Rehman, Dr. Tayyaba Tamim and Director IER Prof. Dr. Abdul Qayyum Chaudhry sit on stage during a book launching ceremony titled 'Pakistan: Education and 21st Century' organized by PU Institute of Education and Research.

PUNJAB University Vice-Chancellor Prof. Dr. Khalid Mahmood has said that our teachers and students must understand that knowledge and skills are more important than degrees. He was addressing a book launching ceremony titled 'Pakistan: Education and 21st Century' by former Vice Chancellor Allama Iqbal Open University Dr. Shahid Siddiqui, organized by PU Institute of Education and Research.

On this occasion, Vice Chancellor Allama Iqbal Open University Prof. Dr. Nasir Mehmood, former VC and author Dr. Shahid Siddiqui, educationist Dr. Tariq Rehman, Dr. Tayyaba Tamim from LUMS, Director IER Prof. Dr. Abdul Qayyum Chaudhry, faculty members and a large number of students were present.

Dr. Khalid Mahmood, in his address, said that change in any society cannot come

without education and as a state and society we have to realize it. He said that more than two and a half crore children do not go to school in Pakistan, which needs time to implement educational policies. He said that Dr. Shahid's writing as an educationist is commendable and students should also study it.

Dr. Nasir Mehmood said that instead of transfer of knowledge, work should be done to realize its importance so that problems can be resolved through their understanding. He said that fortunately, students recognize the education given by their teachers, the correct use of this power can change the lives of our children. He said that reading the works of Shahid also has its own pleasures.

Dr. Tariq Rehman said that today is the era of specialization and Dr. Shahid is also an

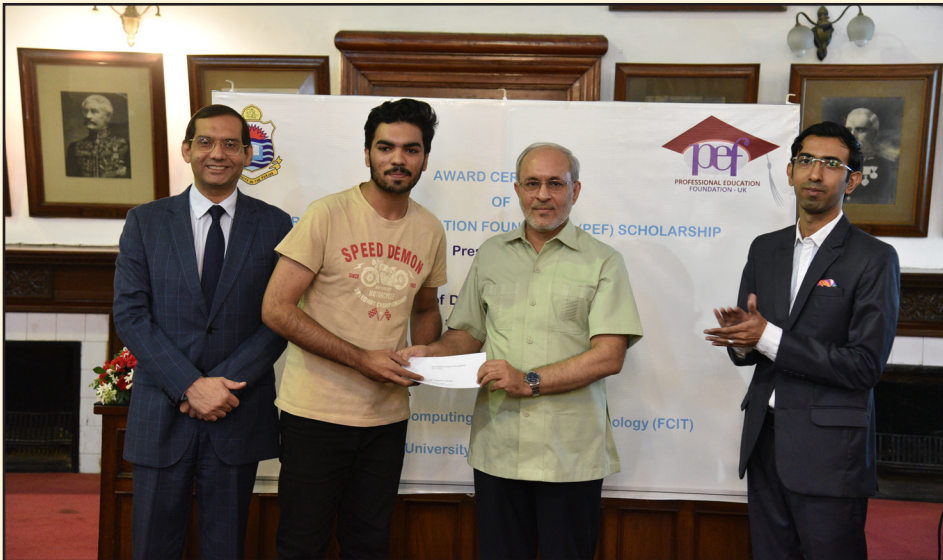
expert in sciences like education, pothohar and social science. He said that many aspects of education have been highlighted in this book which is worth reading.

Dr. Tayyaba said that we publish so many research papers and articles which are in English are not so understandable for students for which the Higher Education Commission should take steps.

Dr. Shahid Siddiqui said that society can be changed only through education. He said that the teacher is only a source of knowledge which can be increased in the critical thinking of the students by providing a free and friendly environment in the classrooms.

Dr. Abdul Qayyum Chaudhry said that positive attitudes can be promoted by reading books and following them. He said that today's students know good and bad. He thanked the

PEF distributes scholarships among students of FCIT



PU VC Prof. Dr. Khalid Mahmood presents the PEF scholarship to a brilliant student of FCIT while PEF's Scholarship Program Head Ma'rab Bashir and Prof. Dr. Shahzad Sarwar are also present.

PROFESSIONAL Education Foundation (PEF) has organized a scholarships distribution ceremony for the students of Punjab University Faculty of Computing & Information Technology. On this occasion, PU Vice Chancellor Prof. Dr. Khalid Mahmood, Dean Faculty of Computing & Information Technology Dr. Shahzad Sarwar, PEF's Scholarship Program Head Ma'rab Bashir, faculty members and students were present.

Prof. Dr. Khalid Mahmood, in his address, said that philanthropists should come forward to help deserving intelligent students because it is a great deed. He said that he had been able to continue his studies in school only due to the scholarship. He said that helping someone in difficult times is an important part of our religion. He said that due to inflation in the country, bearing education expenses has become a problem for many families. He urged

the students to think how they can help others in any capacity.

Dr. Shahzad Sarwar said that an MoU was signed with PEF in 2022 to provide scholarships to brilliant FCIT students. He said that scholarships are being provided to 400 students every year. He said that the scholarships included university fees and hostel expenses. He said that it is amazing to find out that Mr. Asad Jamal is the single largest donor of PEF who contributes more than 500 scholarships. He said Mr. Asad attended London School of Economics and afterwards settled in silicon-valley USA. Mr. Asad Jamal was founding investor of the Chinese search engine BAIDU. He said that now holds 76% market share and has a worth of multi-billion dollars. He said that Mr. Asad Jamal is serial venture capitalist and wants to invest in IT future of Pakistan.

Ma'rab Bashir said that meritorious students are unable to complete their education simply because of expenses. He said that so far these scholarships are being offered to the brilliant students of 41 Universities all over Pakistan. In year 2022-23, two-hundred (200) Million rupees are granted which supports 2650 students of professional education.

He said that so far, the alumni network spans over 2700 professionals who are already contributing 100s of scholarships, he added. He said that the students taking the scholarship are requested to serve Pakistan. Later, the PEF Lounge was inaugurated in Punjab University Old Campus. ■



PU VC Prof. Dr. Khalid Mahmood and PEF's Scholarship Program Head Ma'rab Bashir inaugurate the PEF Lounge in Punjab University Old Campus.



A group photo of PU VC Prof. Dr. Khalid Mahmood, Dean Faculty of Computing & Information Technology Dr. Shahzad Sarwar and others along with the students of PU Faculty of Computing & Information Technology after the scholarships distribution ceremony organized by Professional Education Foundation.

Philanthropists urged to help deserving students

PUNJAB University Vice Chancellor Prof. Dr. Khalid Mahmood has said that philanthropists and institutions should come forward to financially assist deserving students who suffer from financial difficulties face problems in completing their education. He was addressing scholarship ceremony organized by Qasim Ali Foundation's Taleem Mumkin project.

On the occasion, Chairman Foundation Qasim Ali Shah, senior journalist Salman Abid, renowned anchor Zohaib Saleem Butt, podcaster Hafiz Ahmed and students were present.

Dr. Khalid Mahmood, in his address, said that it is our vision that no deserving student should miss out on education due to lack of fees. He said that PU with the support of various NGOs, foundations and alumni will play a role in providing affordable and quality education. He appreciated the efforts of Qasim Ali Shah for the promotion of education in the country.

Qasim Ali Shah said that when the foundation was started, there were 70 students, while today they are giving scholarships to 770 students of 7 universities in two or three years. He said that the purpose of Qasim Ali Shah Foundation is to provide financial support to the students as well as personality building.

Salman Abid said that today's students have better opportunities and resources for education which should be taken advantage. He said that humanization with financial support is a unique project.

Zohaib Saleem Butt said that education is the right of every child for which all sections of the society should work together. He said that



Chairman Qasim Ali Shah Foundation presents a souvenir to PU VC Prof. Dr. Khalid Mahmood in a scholarship ceremony organized by Qasim Ali Foundation's Taleem Mumkin project.

knowledge should be spread so that the society can be beautiful.

Hafiz Ahmed said that doing good to someone without hurting self-esteem is certainly a commendable act for which Chairman Qasim Ali Shah Foundation deserves praise. He said that education and skills are the things that can bring any person to a higher position. ■

Sports vital for health - PU VC

PUNJAB University Vice Chancellor Prof. Dr. Khalid Mahmood has said that sports are very important for physical health and mental growth. He was addressing the opening ceremony of the All Pakistan T-20 Cricket Tournament organized by Punjab University in collaboration with 47Sports at the New Campus Cricket Ground.

On this occasion, Director PU Sports Department Prof. Dr. Zaffar Iqbal Butt, Additional Director Zubair Butt, Director Students Affairs Dr. Muhammad Ali Klasra, Mian Bilal Khalid, Rahat Abbas and players participated.

Dr. Khalid Mahmood, in his address, said that Punjab University would continue to play a proactive role in promoting sports activities along with education. He said that the efforts of Punjab University Sports Department are commendable who organized such a wonderful event in collaboration with Pakistan Cricket Board and other institutions.



PU VC Prof. Dr. Khalid Mahmood reveals the trophies in the opening ceremony of All Pakistan T-20 Cricket Tournament organized by Punjab University in collaboration with 47 Sports at the New Campus Cricket Ground.

Dr. Zaffar Iqbal Butt thanked Dr. Khalid Mahmood and said that with the support of the administration, they are promoting the trend of positive activities among the students of Punjab University with collaboration of

other organizations.

As many as 16 teams consisting of first class and national players participating in the event while winning team will be awarded Rs 2 lakh and Rs 1 lakh to the runner-up team. ■

Agricultural development stressed



PU VC Prof. Dr. Khalid Mahmood, Former adviser to Prime Minister of Pakistan Shaza Fatima Khawaja and Dean Prof. Dr. Saleem Haider sit on stage during a seminar on agricultural technology organized at Faculty of Agricultural Sciences.

PU VC Prof. Dr. Khalid Mahmood has said that agricultural development is indispensable for the development of Pakistan. He was addressing a seminar on agricultural technology organized at Faculty of Agricultural Sciences.

Former adviser to Prime Minister of Pakistan Shaza Fatima Khawaja, Dean Prof. Dr. Saleem Haider and others participated in the event.

Shaza Fatima Khawaja, while addressing the seminar, said that Pakistan will develop only if agriculture develops, for this, students have to play a very important role and special attention is needed on education.

Prof. Dr. Saleem Haider said that the teachers in agricultural sciences are the best to guide the students. He said that for this reason, Agricultural Sciences has got its place

in QS Ranking.

He appreciated the efforts of Abbas and Muhammad Zubair, and thanked Dr. Muhammad Bilal Chatta Chief Organizer for organizing the program.

Apart from this, the seminar was also addressed by agricultural experts Dr. Abdul Manan, Waqas Shahid and Alain Shi, a guest speaker from China, Alain Shi. ■

IAP highlights depression, suicide among youth

THE Institute of Applied Psychology held a seminar on World Mental Health Day, addressing the rising issue of "Depression and Suicide Among Youth."

Dr. Iram Zehra Bokharey, a highly experienced clinical psychologist with 35 years of clinical practice discussed how to improve the well-being of young people and their communities. Dr. Iram's presentation provided valuable insights and guidance about clinical management to deal with psychological challenges faced by youth and their caregivers.

The seminar also featured an engaging question-and-answer session where faculty members and students actively discussed their queries. This interactive Q & A session added conceptual clarity about the topic.

The event ended with Prof. Dr. Saima Ghazal,



Dr. Iram Zehra Bokharey addresses to the participants of a seminar on rising issue of "Depression and Suicide among Youth" in connection to World Mental Health Day.

Acting Director (IAP) and Faculty members including Dr. Fatima Kamran, Dr. Affifa Anjum and Dr. Omama Tariq presented a bouquet of appreciation for sharing her expertise

and contributions. The seminar not only shed light on the challenges but also guided about the effective clinical management for a healthier and supportive environment for the psychological wellbeing of young individuals. ■

Gender-based violence challenges discussed

PUNJAB University Department of Social Work organized a seminar on 'Gender-Based Violence (GBV) and Inspiring Change'. PU VC Prof. Dr. Khalid Mahmood, Chairperson Department of Social Work Prof. Dr. Uzma Ashiq, Executive Director of Initiatives for Sustainable Development Gul Hassan, INL Director Lori Antolinez, Muhammad Arshad Abbasi, faculty members and a large number of students were present on the occasion.

Dr. Khalid Mahmood and Dr. Uzma Ashiq conveyed heartfelt gratitude to the organizers of the event.

Gul Hassan introduced the GBV-JSSP Project, demonstrating its noble objectives. Testimonies from Peace Ambassadors showcased the project's positive impact. The event included a GBV debate, a painting showcase and concluded with an inspiring address by INL Director Lori Antolinez. The event highlighted the potential for positive change through unity and awareness, addressing GBV issues collectively. ■



Chairperson Department of Social Work Prof. Dr. Uzma Ashiq presents a souvenir to PU VC Prof. Dr. Khalid Mahmood.

School of Economics counsels youth on career



Dean Faculty of Business, Economics and Administrative Sciences Prof. Dr. Mumtaz Anwar Chaudhry presents a souvenir to honorable guest after a seminar organized by Punjab University School of Economics.

PUNJAB University School of Economics organized a seminar on "Career counseling: Exploring global opportunities". On this occasion, Dean Faculty of Business, Economics and Administrative Sciences Prof. Dr. Mumtaz Anwar Chaudhry, senior faculty members and a large number of students were present.

Dr. Mumtaz, in his address, while welcoming the participants said that our students have potential to compete the world. He said that we should work together to make the country economically strong.

Mubeen Rasheed guided the students about the higher education opportunities available in numerous countries such as the USA, UK, Canada, etc. ■

184 million people in Pakistan can't afford healthy diet: speakers

PUNJAB University Faculty of Agricultural Science's Department of Food Sciences in collaboration with the Helping Hand for Relief and Development (HHRD) of Pakistan organized an awareness seminar on 'Impact of climate change on food security' and walk under the theme of 'Water is Life Water is Food'.

On this occasion, Dean Faculty of Agriculture Science Prof. Dr. Muhammad Saleem Haider, Head of Operations at HHRD Sajid Ali, faculty members and a large number of students were present.

The distinguished guest speakers at the seminar included Dean Faculty, Dr. Saleem Haider, Chairman Department of Food Sciences Dr. Shanawar Waseem Ali, President of the National Alliance for Safe Food Rana Awais Khan, Head of Quality Assurance at Yums Group and former DD Food, Dr. Mubeen Awan and climate specialist Dr. Arshad Javed.

of Climate Change on Food Security'. Regional Coordinator Central Punjab Tauseef Sardar Awan introduced HHRD and the Manager of Operations highlighted HHRD's contributions towards the zero-hunger goal. It was highlighted that the production in the Asia region is currently lower than its consumption.

Moreover, climate change has posed severe food security threats to the region, with floods in 2022 causing \$3.7 billion in losses to food systems. There is a pressing need to enhance production through support to smallholders and the introduction of high-yield varieties and improved breeds.

In Pakistan, 184 million people cannot afford a healthy diet. One-third (1/3) of the world's population faces limited water access and 783 million people worldwide experience food insecurity. Pakistan may confront absolute water scarcity by 2025



population growth, climate change, and inefficient water management.

"Climate change has both direct and indirect impacts on the agricultural production system, driven by rising temperatures and shifting rainfall patterns," experts emphasized. The seminar highlighted sustainable agriculture's role in addressing climate change by optimizing production and minimizing carbon footprint.

It also underscored the importance of resilient farming systems. The event showcased collective action and youth advocacy for climate change, demonstrating HHRD's commitment to fostering sustainable solutions. ■



Dean Faculty of Agriculture Science Prof. Dr. Muhammad Saleem Haider leads an awareness walk under the theme of 'Water is Life Water is Food' organized by Department of Food Sciences in collaboration with the Helping Hand for Relief and Development (HHRD) of Pakistan.

Pakistan Study Centre recalls sacrifices of 1947 migrants



A group photo of PU VC Prof. Dr. Khalid Mahmood along with Prof. Dr. Muhammad Iqbal Chawla, Director Pakistan Study Centre Prof. Dr. Naumana Kiran and Associate Professor Dr. Amjad Abbas Magsi in an international symposium of Young Scholars in the memory of 1947 migration and refugee rehabilitation organized by PU Pakistan Study Centre.

PUNJAB University Pakistan Study Centre organized an international symposium of Young Scholars in the memory of 1947 migration and refugee rehabilitation. PU VC Prof. Dr. Khalid Mahmood, Former Dean Prof. Dr. Muhammad Iqbal Chawla, Director Pakistan Study Centre Prof. Dr. Naumana Kiran, Associate Professor Dr. Amjad Abbas Khan Magsi, Masooma Zafar PhD scholar from Nanyang Technological University, Singapore, PhD scholar from Concordia University, Canada Sunjay Mathuria, Dr. Tahir Khan from Virtual University of Pakistan, faculty members and researchers were also present on the occasion.

Dr. Khalid Mahmood, in his address, said that it was a huge migration; thousands of Muslims were killed during the migration process. He said that it was a great challenge for the new born country to rehabilitate the migrants. He appreciated Pakistan Study Centre on holding International Symposium

on this very important theme.

Dr. Muhammad Iqbal Chawla, in his keynote lecture, focused on the extensive historical literature in Partition Studies. He highlighted historiography on partition and migration. He said that initially historians focused on documenting the contributions of key figures within the British administration, Muslim League, Congress and Sikhs, which was followed by regional history.

The past four decades have seen key developments in the literature on Partition that has especially addressed gender issues and developments at the local level, he added. He said that the Partition of India in 1947 resulted in not only division of Punjab that created a permanent seed of enmity between India and Pakistan. Division of two majority provinces of Punjab and Bengal resulted in a massive cross-border migration, which was accompanied by outbreaks of violence, looting, and the displacement of millions of people, he added.

Prof. Dr. Naumana Kiran welcomed the participants and shed light on the purpose and theme of the symposium. She said that it would serve as a forum for young scholars and would be source of paying gratitude to our ancestors whose sacrifices contributed a lot to make our beloved homeland.

Sunjay Mathuria discussed the ways in which memories are narrated in cities that have experienced conflict or a traumatic event and alternate forms of memory-making.

Masooma Zafar was of the view that in the past decade, partition historiography has undergone a significant shift commonly referred to a new history of the partition.

Dr. Tahir Khan brought to light the refugee-settlement policies, designed by Ayub Khan Regime, which took a lot of initiatives to accommodate refugees on an emergency basis while attempting to redefine the state policy towards refugees' rehabilitation and settlement. ■

IMMG, American Society for Microbiology organize workshop on Agar Art

THE Institute of Microbiology & Molecular Genetics (MMG), University of the Punjab and American Society for Microbiology have jointly organized one day workshop on Agar Art Contest 2023.

The main aim of this one-day workshop was to provide a platform to microbiology students to express their creativity using microbes. This activity also helps students to learn about the bacteria and their special properties along with culture media. Such activities also add colors to the life of researchers while working in a closed environment.

The central theme of this Agar Art workshop and contest was "Microbiology in Space" signifying how micro-organisms thrive in outer space. The workshop was organized under the patronage and supervision of the Director Institute of MMG, Prof. Dr. Anjum Nasim Sabri.

At the start of the event, Faculty Advisor of the ASM International Students Chapter Dr. Imran Sajid presented the chapter's achievements, ASM's introduction and mission and facilitation in the event.

Dr. Mehboob Ahmed discussed the historical context and evolution of agar culture media, while Dr. Saba Riaz added an artistic touch with a poetic tribute to microbiology, enriching the scientific gathering. It is worth mentioning that the participants from various institutions in Lahore, including; University of the Punjab, University of Central Punjab (UCP), University of Management and Technology (UMT), University of Veterinary and Animal Sciences (UVAS), and Gulab Devi Educational Complex, Lahore, showcased their artwork.

Prof. Emeritus Dr. Shahida Hasnain, Prof. Dr. Sikandar Sultan and Prof. Dr. Abdul Rehman served as esteemed judges, evaluating



the student artworks based on both artistic and scientific criteria.

Dr. Imran Sajid, announced the names of the winners, commended their efforts, and expressed gratitude to the students for their active participation in the event. Among the winners were; Mehwish, Sana Husain, Zainab Ijaz, 1st Position (Institute of MMG, university of the Punjab), Warda Attique, Saiqa Sattar, Amina Mahmood, Laiba Arshad, Tehreem Irfan, Ammara Khalid, Ifrah Amjad, Fazal Rahim 2nd position (Institute of MMG, University of the Punjab), Syeda Noor Fatima, 3rd Position, University of Central Punjab (UCP), Mutther Aslam 3rd Position, University of Management and Technology (UMT).

The winners of this institutional competition will submit their artwork in the ASM Agar Art Contest, 2023 being organized by the American Society for Microbiology at the global level. ■

Call to benefit from teachings of Hazrat Muhammad (PBUH)



PU VC Prof. Dr. Khalid Mahmood addresses the participants of Sirat-ul-Nabi Conference and Mahfil-e-Hamd & Naat.

PUNJAB University Administrative and Technical Staff Association has organized Sirat-ul-Nabi Conference and Mahfil Hamd & Naat at Faisal Auditorium.

PU Vice Chancellor Prof. Dr. Khalid Mahmood, President of Ulama and Mashaykh Rabta Council Mian Maqsood Ahmed, Pir Khawaja Moin-ud-din Koreija, Registrar Dr. Ahmed Islam, President of Staff Association Chaudhry Basharat Mahmood, a large number of teachers and employees participated.

PU VC Prof. Dr. Khalid Mahmood, while addressing the conference, said that the month of Rabi-ul-Awwal comes in our lives every year and we celebrate it with great devotion and respect. He said that Muslims should benefit from the teachings of Prophet Muhammad SAWW in every field of life.

He said that Hazrat Muhammad SAWW laid the foundation of human rights and endured hardships. He said that the teachings of Hazrat Muhammad SAWW should be used to solve the economic problems of Pakistan.



PU VC Prof. Dr. Khalid Mahmood, President of Ulama and Mashaykh Rabta Council Mian Maqsood Ahmed, Pir Khawaja Moin-ud-din Koreija, Registrar Dr. Ahmed Islam, President of Staff Association Chaudhry Basharat Mahmood and others sit on stage during the Sirat-ul-Nabi Conference and Mahfil-e-Hamd & Naat organized by PU Administrative and Technical Staff Association.

Mian Maqsood said that the economic conditions of the country required that economic reforms should be introduced in the light of the teachings of Prophet Muhammad (SAWW).

Pir Khwaja Moin-ud-din Korija, in his address, highlighted various economic aspects of the life of Hazrat Muhammad SAWW.

Chaudhry Basharat Mehmood, while

speaking on this occasion, said that every Muslim loves Hazrat Muhammad SAWW more than anything else in the world. He said that the purpose of holding the conference was to highlight various aspects of the life of Prophet Muhammad SAWW so that we can solve our economic problems in the light of his teachings. ■

Turkish manuscript experts visit PU



PU VC Prof. Dr. Khalid Mahmood addresses a Turkish manuscript experts team.

A Turkish manuscript experts team visited the Punjab University Library to collaborate on “Punjab University Library manuscripts collection: preservation conservation project”. The four-member visiting team was consisted of Researcher- Presidency of Republic of Turkiye, Director of State Archives Mesut Demir, Head of Manuscript Conservation and Archive Department Directorate of Turkish Institute of Manuscripts Dr. Ms. Nil Baydar, Expert – Turkish Cooperation and Coordination Agency- TIKa Ms. Saliha Tuna and Country Director TIKa Muhsin Balci. The team inspected the PU Library’s manuscripts and gave several suggestions.

Ms. Nil Baydar provided introductory training to library staff and introduced the salient features of TIKa conservation project. To discuss and explore future steps for next phase of preservation and conservation of manuscripts at Punjab University, Turkish Consul General in Lahore.

Mr. Durmus Bastug invited PU VC Prof. Dr. Khalid Mahmood and Chief Librarian Dr. Muhammad Haroon Usmani along with Turkish team of experts to discuss the



A group photo of Turkish manuscript experts team along with PU VC Prof. Dr. Khalid Mahmood and Chief Librarian Dr. Muhammad Haroon Usmani.

possibilities of Cooperation and train PU Library professionals for preservation and conservation of manuscripts.

He offered that the Turkish government will arrange such training in Turkiya for PU professionals. He also assured full support in establishing the conservation and

preservation unit at PU Library. PU VC Prof. Dr. Khalid Mahmood thanked the Consul General of Turkiye for this offer and advised the Chief Librarian to make all the arrangements for availing this opportunity. The team of experts visited the PU VC office also for further deliberations. ■

PU Library organizes introductory talk on books

PUNJAB University Library organized introductory talk on 'Baqiyat-a-Iqbal' compiled by Dr. Syed Taqi Abadi and 'Political Philosophy of Kautilya: The Arthashastra and after' by Rajvir Sharma.

On this occasion, Chief Librarian Dr. Muhammad Haroon Usmani, Director Institute of Urdu Language and Literature Dr. Muhammad Kamran, Centre for South Asian Studies Assistant Prof. Dr. Mariam Kamal, Dr. Taqi Abadi, faculty members and a large number of students were present.

The Urdu book was a collection of literary residues of Allama Muhammad Iqbal and the talk on this book was presented by Dr. Muhammad Kamran. He shared the biographical sketch of the renowned poet, his style and the themes of the poetry.

Dr. Taqi Abadi shed light on the work of Allama Muhammad Iqbal. He recited some poems from the book which shows that the literary residue of Allama Muhammad Iqbal was equally beautiful and mesmerizing.

Dr. Mariam Kamal presented the talk on the political thought of 'Kautilya'. She explained the change of political ideologies in the subcontinent before the colonial era as narrated by the author of the book.

Dr. Haroon Usmani thanked the speakers for their magnificent talks and the audience for their lively participation. ■

Journalism students visit printing press



A group photo of PU Journalism students along with PU Director Press and Publications Mr. Ali Ahmad and Associate Professor Dr. Shabbir Sarwar.

PUNJAB University Journalism students visited PU Printing Press as part of their study tour to get practical knowledge about design, pasting, plate and printing sections. A 20-member student delegation of BS 6th Semester Print Journalism class headed by Associate Professor Dr. Shabbir Sarwar called on PU Director Press and Publications Mr. Ali Ahmad.

The students had an interactive session with the director, who gave a briefing on the four types of printing with special focus on off-set printing. He also informed the students about various sections of the press and modern trends of printing.

Responding to student queries, Design and Graphic In-charge Muhammad Kamil Qureshi explained about editing softwares, 256 million colour variations and four colour separations under CMYK rule. He also gave briefing about the colour separations mechanism.

Press Supervisor Aqeel Shahzad took students to the round of various sections of the printing press and thoroughly explained how the printing of newspapers, magazines and books is done in offset printing. He explained the process from pre-press work to offset printing, cutting, folding and binding in detail.

Dr. Shabbir Sarwar thanked the press management for their facilitation and practical knowledge dissemination among students. ■

CCP marks World Mental Health Day



PU VC Dr. Khalid Mahmood leads an awareness walk in connection with the World Mental Health Day organized by PU Centre for Clinical Psychology.

IN connection with the World Mental Health Day, Punjab University Centre for Clinical Psychology (CCP) arranged awareness walk. The students and faculty members displayed stalls at various points in the varsity. On this occasion, PU VC Prof. Dr. Khalid Mahmood, CCP Director Dr. Saima Dawood, faculty members and students were present.

PU VC Dr. Khalid Mahmood, in his address, said that the use of digital platforms is affecting the minds of the youth due to which they are getting frustrated. He said excessive use of mobile, laptop is causing distance in the family for which psychologists have to play a proactive role.

Dr. Saima said CCP would continue to aware the public about different psychological issues and their available treatment. She along with faculty members visited these awareness stalls and appreciated the efforts of the students. ■

Prof. Dr. Zulfiqar Ali participates in World Animal Day event

PUNJAB University Department of Zoology's Prof. Dr. Zulfiqar Ali and students have participated in World Animal Day organized by Punjab Wildlife and Parks Department. Director General Wildlife Mubeen Elahi, Muddasar Hassan, Dr. Waseem from Pakistan Wildlife Foundation and Dr. Atif spoke on the occasion.

According to Dr. Zulfiqar, World Animal Day is to celebrate to raise awareness about animal rights, welfare and conservation. He said that the day dedicated to honoring animals and advocating for their well-being. People around the world use this day to take action and participate in various events and activities that promote compassion and understanding for animals, he added. He said that World Animal Day unites the animal welfare movement, mobilizing it into a global force to make the world a better place for all animals. ■

Call to stop Gaza bombing



PU VC Prof. Dr. Khalid Mahmood addresses a rally organized by Punjab University Department of Film and Broadcasting Studies against Israeli brutality and to express solidarity with Palestinians.



Students of Punjab University Department of Film and Broadcasting Studies participate in a rally against Israeli brutality and to express solidarity with Palestinians under the leadership of Chairperson Prof. Dr. Lubna Zaheer.

PUNJAB University VC Prof. Dr. Khalid Mahmood has demanded the world to immediately intervene and stop the Israeli bombing of Gaza where the blood of innocent children and Muslims is being shed. He was addressing a rally organized by Punjab University Department of Film and Broadcasting Studies against Israeli brutality and to express solidarity with Palestinians. The rally was led by the Chairperson of the department Prof. Dr. Lubna Zaheer.

Dr. Khalid Mahmood, while addressing the rally, said even wars had some principles. He said that Israel is an illegitimate state in the Arab world. He said that the area of the Arabs should be given to the Arabs. He said that Israel's illegal occupation of the region should come to an end. He said that we are equal participants in the suffering of Palestinians and pay tribute to their sacrifices. ■

Donation of Punjabi Poet Hashim Shah's manuscripts to PU Library



Punjab University Dean Faculty of Oriental Learning and Principal Oriental College Prof. Dr. Ghulam Moeen-ud-Din Nizami hands over about two hundred years old five precious Punjabi Manuscripts of renowned Sufi Poet Syed Muhammad Hashim Shah to VC Prof. Dr. Khalid Mahmood for PU Library.

PUNJAB University Dean Faculty of Oriental Learning and Principal Oriental College Prof. Dr. Ghulam Moeen-ud-Din Nizami handed over about two hundred years old five precious Punjabi Manuscripts of renowned Sufi Poet Syed Muhammad Hashim Shah to Punjab University Vice Chancellor Prof. Dr. Khalid Mahmood for PU Library.

Chief Librarian Dr. Muhammad Haroon Usmani and other were present on the occasion. These manuscripts are consisted of Ilm-ur-Ramal (Persian Prose) and famous Punjabi epic Sassi Pannu, Epic Sohni Mehiwal, Ilm-ur-Ramal (Punjabi), Dewrhrey (Punjabi Poetry). These manuscripts have been donated to Punjab University Library on the desire of Hashim Shah's heirs in Pakistan.

Hashim Shah was a Punjabi writer and Sufi poet who was born in 1735 while died in 1843. He was known for his story Sassi Punnu (or Sassi Panhu). His family migrated from Holy city Madina to Punjab, India, where they began living at Jagdev Kalan, the biggest village in Ajnala tehsil, Amritsar district. Hashim Shah was born in Jagdev Kalan and lived in that village his entire life. He wrote three stories "Kissa Kaw" named Sassi Punnu, Sohni Mahiwal and Shirin Farhad.

His tomb is in the Thurpal Tehsil Narowal. Hashim, besides following the family tradition of hikmat (physician) and Piri-Muridi, also worked as a carpenter for sustenance. He left the profession of carpentry when

Maharaja Ranjit Singh and his courtiers extended their patronage to Hashim. Thereafter, he devoted his entire life to spiritual attainments and composing Sufistic (mystic) poetry.

PU VC Dr. Khalid Mahmood appreciated the gesture of Hasim Shah's heirs and efforts of Prof. Moin Nizami. He said that these manuscripts shall be a good addition to the manuscript collection of PU Library and provide a great opportunity for researchers as well. ■

Seminar on machine learning fundamentals

PUNJAB University Office of Research Innovation and Commercialization (ORIC) organized a seminar on 'Machine Learning Fundamentals & its Application in Agriculture' at the Institute of Chemical Engineering and Technology.

Director ORIC Prof. Dr. Shakil Ahmed, Scientist at Biological Data Science Institute of Australian National University Dr. Ali Zia, Deputy Director Dr. Aqil Inam, Dr. Khalid Mahmood and Dr. Muhammad Irfan, faculty members and PhD scholars were present on the occasion.

Dr. Ali Zia, Resource Person, delivered a detailed lecture about the topic explaining both fundamental and practical aspects of Machine Learning Fundamentals & its Application in Agriculture.

Dr. Shakil shared his vision about the need to organize the seminar, the importance of machine learning fundamentals & its application in agriculture and strongly urged the faculty to learn emerging technologies. The lecture was followed by a question answer session from the participants. ■

Webinar on breast cancer awareness



INSTITUTE of Applied Psychology Health Psychology team arranged a webinar on Breast Cancer Awareness. Dr. Fatima Arifeen, General Physician and member of ESCA, Switzerland gave an informative talk as a guest speaker.

Dr. Fatima Arifeen talked about the critical need for an early detection and prevention of breast cancer.

She emphasized the need to work in the sociocultural barriers and issues associated with breast cancer in Pakistan. Dr. Fatima Kamran, Associate Professor and Program Coordinator, chaired the session and emphasized the need for organizing hands on training programs for Health psychology trainees and psychologists working in health sector. A number of participants asked questions to clarify the prevailing myths about breast cancer.

It was concluded that a timely diagnosis can lead to a 100% prognosis only in breast cancer therefore community-based services need to spread the message to reduce the alarmingly increasing rate of Breast cancer in Pakistan where 1 out of 9 women is diagnosed with breast cancer. The webinar ended with a Q & A session by the participants followed by a vote of thanks by Dr. Fatima Kamran. ■

HCBF hosts Mehfil-e-Milad



A glimpse of the Mehfil-e-Milad organized by Hailey College of Banking and Finance.

A few glimpses of the Mehfil-e-Milad organized by Hailey College of Banking and Finance where the spirit of love for Prophet Muhammad (SAW) permeated the atmosphere.

Maulana Raghیب Naeemi during his special talk shared insights into Seerat-un-Nabi (SAW) to foster a deeper understanding and appreciation for Prophet Muhammad SAW's early life, teachings on morality and social justice, His (SAW) exemplary relationships, leadership style, commitment to community service, and the enduring legacy. ■

CCP organizes training workshop on wellbeing

PUNJAB University Centre for Clinical Psychology (CCP) organized a two days hand on certification training on "solution focused brief therapy". On this occasion, CCP Director Prof. Dr. Saima Dawood, Director Centre for Mental Health and Wellbeing, Islamabad Dr. Nighat Gillani, PhD scholars and professional clinical psychologist from Lahore, Peshawar, Islamabad etc were present.

According to Dr. Saima this certification training was offered

as part of pre-conference workshop to be organized by CCP on the theme 'Mental Health and Rehabilitation: Innovation and Implementation'. He said that participants in the training acknowledged practical knowledge and clinical acumen shared during this training. She said that in depth extensive training helped the participant to experience and understands a new approach which would help them to deal with various mental health issues.

He thanked Dr. Nighat Gillani for conducting this training. ■

Newly admitted MPhil, MS Health Psychology students welcomed at IAP



THE Institute of Applied Psychology at the University of the Punjab recently organized an Orientation Ceremony for the incoming batch of MPhil and MS Health Psychology students for the session 2023-2025. The ceremony commenced with the Holy Name of Allah.

Acting Director Prof. Dr. Saima Ghazal, warmly welcomed the new students and provided an insightful overview of the institute's overarching goals and mission. She focused on cultivating a culture of collaborative learning, inspiring everyone to come together and actively participate in a shared educational experience.

The orientation program proceeded with a virtual tour of the institute, offering students a glimpse of its facilities and a chance to virtually meet the dedicated staff members at IAP.

Following the virtual tour, senior faculty members from IAP, including

Associate Professor Dr. Iram Fatima, Associate Professor Dr. Afifa Anjum and Assistant Professor Dr. Omama Tariq introduced themselves and shared their respective areas of expertise with the students. The esteemed faculty members offered words of encouragement and motivation, urging the students to excel in their academic pursuits and emphasizing the importance of becoming active and productive contributors to society.

During the Orientation Ceremony, the students introduce themselves and shared their expectations from this course. The Orientation was concluded with a question-and-answer session provided a platform for students to seek clarification on any queries they had, ensuring that they felt well-informed and prepared to embark on their academic journey at the Institute of Applied Psychology, University of the Punjab. ■

University of Miami's delegate visits PU

RESearch on regenerative medicine is crucial in Pakistan, as it has the potential to revolutionize the country's healthcare system and address some of its most pressing medical challenges. Dr. Aisha Khan, the Executive Director of Laboratory Operations at the University of Miami Miller School of Medicine, recently visited the Centre of Excellence in Molecular Biology (CEMB) in Lahore.

During her visit, Dr. Khan met with PU VC Prof. Dr. Khalid Mahmood, Chairman of the Pakistan Science Foundation (PSF) Dr. Shahid Mahmood Baig, CEMB Director Prof. Moaz-ur-Rahman and Dr. Azra Mahmood, along with her team members Dr. Noreen Latief, Dr. Saba Tasneem, and Dr. Maria Tayyab, who are part of the Stem Cells lab at CEMB.

The purpose of the meeting was to discuss potential areas of mutual research interests for future collaborations between the University of Miami Miller School of Medicine and CEMB.

The worthy Vice Chancellor's presence



PU VC Prof. Dr. Khalid Mahmood presents flower bouquet to Dr. Aisha Khan, the Executive Director of Laboratory Operations at the University of Miami Miller School of Medicine on her visit to PU Centre of Excellence in Molecular Biology (CEMB).

at the meeting highlights the importance that CEMB places on fostering international collaborations and partnerships. As the Chairman of the Pakistan Science Foundation (PSF) Dr. Shahid Mahmood Baig's participation in the meeting also underscores the

significance of this potential collaboration for Pakistan's scientific community.

Overall, the meeting was a productive one, with both institutions expressing a keen interest in exploring potential collaborations in the future. ■

Renowned Scientist Prof. Judith Brown visits Centre of Excellence in Molecular Biology

In a momentous event, Prof. Judith Brown, a renowned scientist in the field of plant virology, working at School of Plant Sciences University of Arizona, USA graced Centre of Excellence in Molecular Biology (CEMB), with an enlightening and impactful visit. The visit organized by CEMB proved to be a milestone event in the pursuit of scientific knowledge and innovation.

Dr. Brown not only highlighted her own pioneering work but also emphasized the need of collaboration, curiosity, and the relentless pursuit of knowledge in the scientific community. In addition, she was engaged in an interactive session with CEMB scientists and researchers, further fostering a spirit of scientific inquiry and collaboration within the community. During the visit, Dr. Brown also visited scientific labs and research fields where new cotton varieties were evaluated and various ideas about future work were discussed.

Dr. Brown's visit left an indelible mark on all attendees, inspiring them continue pushing the boundaries of knowledge in their respective fields. To conclude the visit, CEMB Director Prof. Dr. Moaz-ur-Rahman shared his insightful thoughts and thanked Dr. Brown for sparing her time to visit CEMB and urged to continue future interaction



Renowned American Scientist Prof. Judith Brown examines the CKC cotton varieties of PU Centre of Excellence in Molecular Biology (CEMB).

and scientific collaboration. At this moment, Prof. Dr. Bushra Rashid, Prof. Dr. Abdul Qayyum Rao and Dr. Usman Arif were also present on the occasion. ■

Governor distributes tablets among students



STUDENT Advancement Fund Endowment (SAFE), University of the Punjab has organized an event in which tablet and internet devices were distributed among the students of University of the Punjab at Governor's House. Honourable Chief Guest Chancellor/ Governor Mr. Muhammad Balighur Rehman, Dr. Rubeena Zakar, Director Institute of Social & Cultural Studies, Dr. Ahmad Islam, Registrar, Mr. Arsalan Qaisar, Assistant Director of Sughra Begum Centre for Education Policy and Development and selected students attended the event. Honourable Governor Mr. Muhammad Balighur Rehman enlightened the students on various aspects of education system in Pakistan. He said that the education system of Punjab is not only responsible for imparting knowledge and skills but also for instilling values, critical thinking and creativity



in the youth. By nurturing a generation of well-rounded individuals, the education system contributes to the overall growth and advancement of the region that is very

important. Later, the governor distributed tablets among the students. The event was concluded with a note of thanks by Prof. Dr. Rubeena Zakar, Director of ISCS. ■

MoU to enhance **industry-academia** linkages



A few glimpses of MoU signing ceremony between Bin Rasheed Group and PU Institute of Chemical Engineering & Technology (ICET).



BIN Rasheed Group CEO Engr. Moazzam Rasheed and Manager Central Research & Development, Bin Rasheed Group Dr. Zia Mustafa visited University of the Punjab and signed an Industrial-Academic MoU with Institute

of Chemical Engineering & Technology (ICET).

Dean Faculty of Chemical and Materials Prof. Dr. Abdullah Khan Durrani and Director Institute of Chemical Engineering & Technology Prof. Dr. Rafi Ullah Khan along

with ICET Industrial Liaison Coordinator Dr. Yousef Jamal discussed with visitors the importance of the industrial and academic linkages and highlighted the strength of the ICET to solve the current technical issues of the industries. ■

NIBGE delegate to collaborate in health biotechnology

A delegate from the National Institute for Biotechnology and Genetic Engineering (NIBGE) visited the Centre of Excellence in Molecular Biology (CEMB) to discuss potential collaboration in the field of Health Biotechnology. During the meeting, the NIBGE researchers expressed their keen interest in exploring new technologies and innovations that could help enhance the quality of health Biotech products.

Prof. Dr. Mazhar Iqbal discussed his research on the potential of natural products as antiviral agents and their possible application in stem cell research.

Prof. Dr. Moaz-ur-Rahman, Director CEMB, discussed the details of vaccine development for human and animal infections, including bursal disease virus and fowl adenovirus. The meeting concluded on a positive note with a vote of thanks by Director CEMB, expressing optimism for future collaboration and joint research efforts. ■



Director CEMB Prof. Dr. Moaz-ur-Rahman discusses the optimism for future collaboration and joint research efforts with a delegation from the National Institute for Biotechnology and Genetic Engineering (NIBGE).

CEMB, Evyol Group launch joint venture in agricultural field

PUNJAB University Centre of Excellence in Molecular Biology (CEMB) and Evyol Group, Multan has signed a memorandum of understanding (MoU) to herald a transformative era in agricultural innovations. In this regard the signing ceremony was held at PU Vice Chancellor's office.

On this occasion, PU VC Prof. Dr. Khalid Mahmood, CEMB Director Prof. Dr. Moaz-ur-Rahman, CEO of Evyol Group Asif Majeed, senior researchers of Evyol Group, Ex-Cotton Commissioner Dr. Khalid Abdullah and renowned cotton breeder Dr. Muhammad Iqbal Bandesha were present.

This strategic partnership will mark a significant milestone in the pursuit of excellence in multiplication, production, sales and development of new cotton varieties by exploiting CKC technology pioneered at CEMB.

This collaboration is set to bring forth innovations that will redefine the landscape of cotton production and drive the sector to new



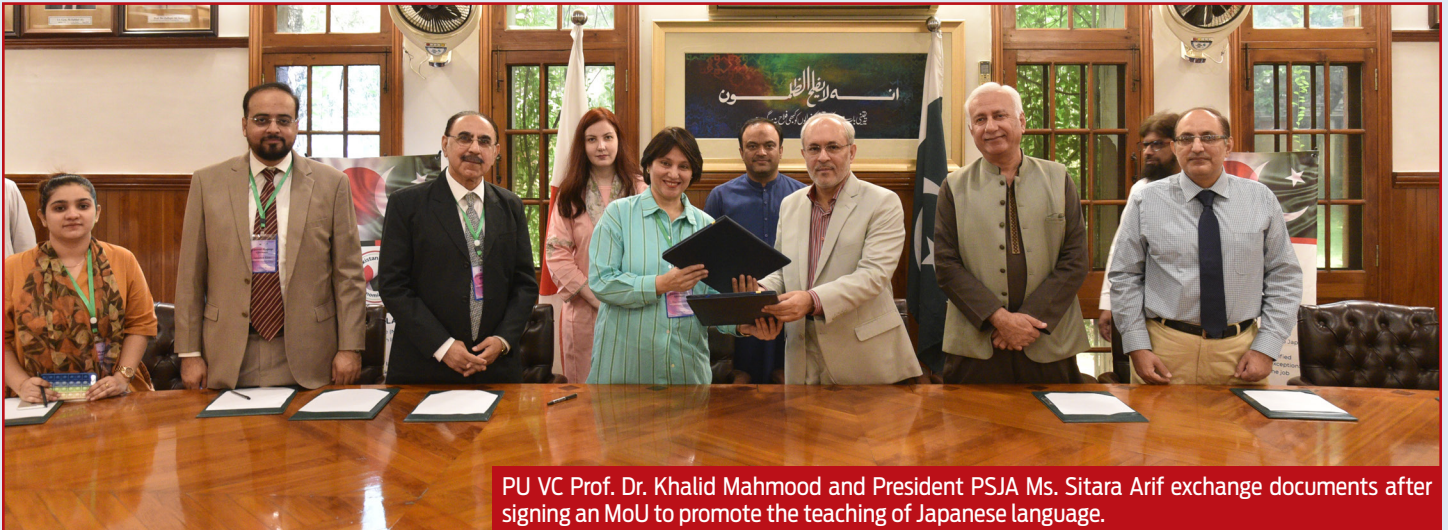
PU VC Prof. Dr. Khalid Mahmood and CEO of Evyol Group Asif Majeed exchange documents after signing an MoU to herald a transformative era in agricultural innovations.

heights of success.

The participants highlighted the importance of this collaboration for the future of agriculture under the guidance of the VC.

They said that combined expertise of CEMB and Evyol Group, the collaborative effort is set to usher in a new chapter of agricultural prosperity. ■

MoU inked to promote Japanese language



PU VC Prof. Dr. Khalid Mahmood and President PSJA Ms. Sitara Arif exchange documents after signing an MoU to promote the teaching of Japanese language.

PUNJAB University Institute of Languages & Linguistics and Pak Japan Socioeconomic Association (PJSA) signed a Memorandum of Understanding (MOU) to promote the teaching of Japanese language.

PU Vice Chancellor Prof. Dr. Khalid

Mahmood and President PSJA Ms. Sitara Arif signed off the document in a ceremony held at VC's office.

On this occasion, Dean Faculty of Oriental Learning Prof. Dr. Moeen Nizami, Director IoLL Prof. Dr. Moqheet Javed Bhatti and all the faculty members of the Institute were present.

Prof. Dr. Khalid Mahmood, while speaking on the occasion, emphasized the importance of Japanese language for students as well as professionals of the country and instructed the Institute to launch the diploma and certificate courses at the earliest with the technical assistance of the PJSA. ■

CEMB, Gourmet to work on biotechnology

OFFICIALS from Gourmet company visited the Centre of Excellence in Molecular Biology (CEMB) to explore potential areas of collaboration in the field of Agriculture, Biopharmaceuticals, and stem cells. The visit included a meeting with Director CEMB Prof. Dr. Moaz-ur-Rahman and researchers, as well as a tour of the labs to discuss and explore key research interests.

During the meeting, the officials from Gourmet company expressed their interest in exploring new technologies and innovations that could help improve crop yields, enhance food quality, develop and commercialize new biopharmaceutical products. They also discussed the potential of stem cells in the field of regenerative medicine.

Overall, both the parties expressed their commitment to exploring potential areas of collaboration in the future. This collaboration



A group photo of Officials from Gourmet company, Director CEMB Prof. Dr. Moaz-ur-Rahman and others after signing an MoU in the field of Agriculture, Biopharmaceuticals, and stem cells.

has the potential to lead to innovations in the field of biotechnology, which could have a

significant impact on the country's agriculture and healthcare industries. ■

Breakthrough in reviving Pakistani cotton production

■ CEMB has developed a new triple gene cotton variety with resistance to pink bollworm and glyphosate

■ PU's new triple gene cotton variety seed will now reduce the cotton production cost of farmers by about 170bn rupees per year

THE Punjab University-Center of Excellence in Molecular Biology (CEMB), Lahore has developed another new variety of triple gene cotton (CKC-05) under the leadership of Prof. Dr. Idrees Ahmad Nasir and Prof. Dr. Tayyeb Hasnain. CKC-05 has all the characteristics of high yielding good cotton variety. Amenable to control all bollworms including pink bollworm, which is otherwise very costly to control conventionally.

Punjab Seed Council has approved the new triple gene variety CKC-5 for general cultivation. CKC technology is a historic achievement of Punjab University scientists to increase cotton production and build Pakistan's economy on a strong foundation. This CKC technology contains double Bt genes (CEMB-Cry1Ac+Cry2A) and one glyphosate resistance gene (CEMB-GTG). CKC varieties help farmers to increase their income by reducing the number of insecticide sprays and saving the cost on hoeing.

The scientists explained that the varieties developed by using CKC technology i.e., CKC-1, CKC-3, CKC-5 and CKC-6 have this year covered nearly 70% (rough estimate) of the total area under cotton and are helping farmers to effectively control bollworms and weeds, making Pakistan self-sufficient in cotton production again. This technology will prove to be an important milestone towards the stabilization of the Pakistan economy as Pakistan's largest export revenue depends on cotton and its related value-added products.

Minister of Agriculture, Commerce and Industry of the Punjab SM Tanveer and Vice Chancellor of the Punjab University, Prof. Dr. Khalid Mahmood visited various laboratories of the CEMB engaged in the application of biotechnology in the field of agriculture and health. He congratulated the team of scientists for giving another new triple gene variety for the benefit of Pakistan's farming community.

SM Tanveer said that the role of scientists in the development of the country is very important; therefore, the nation should encourage the research projects of the scientists.

Prof. Dr. Khalid Mahmood said that the scientists of CEMB are fully capable of solving the biotechnology related country's problems, but there is a dire need for encouragement and funding for the projects of national interest.

Prof. Dr. Moaz-ur-Rahman gave a briefing about various research projects in the fields of agriculture and health. He said that CEMB will continue to play an active role in solving the various challenges faced by the country in the field of agriculture and health.

Prof. Dr. Abdul Qayyum Rao, in-charge Plant Biotechnology Lab said that the initial experiments of genome editing technology are highly encouraging and by applying these findings, Pakistan can revolutionize in the field of agriculture.

Dr. Allah Bakhsh, Lead researcher cotton Breeding programme, added that we will continue integrating this genome edited lines to CEMB cotton breeding programme as source of germplasm to breed resilient cotton varieties.

Meanwhile, in a ceremony at the CEMB, the Vice-Chancellor University of the Punjab Prof. Dr. Khalid Mahmood along with Chairman Pakistan Science Foundation Dr. Shahid Mahmood Baig and Director CEMB Prof. Dr. Moaz-ur-Rahman, distributed certificates among the researchers for their pioneering work in developing new cotton varieties that are poised to revolutionize Pakistan's agricultural landscape.

Prof. Dr. Khalid Mahmood acknowledged and highly appreciated the hard work and efforts of the CEMB researchers who worked tirelessly for decades, day and night, to make this dream come true.

It is worth mentioning here that recently Punjab Seed Council in its 57th Meeting approved transgenic triple gene cotton variety (CKC-05), developed at Centre of Excellence in Molecular Biology, for general cultivation in Punjab. CKC-01 and CKC-03 developed at CEMB are already available on the market while CKC-06 is about to be commercialized by Punjab Seed Corporation. Chairman Pakistan Science Foundation Dr. Shahid Baig congratulated the researchers on their achievement and encouraged them to continue their efforts to develop new technologies and innovations that can benefit Pakistan's economy. The ceremony was celebration of the hard work and dedication of the researchers and their contribution to the development of Pakistan's economy. ■

