



Newsletter

PAKISTAN ACADEMY OF SCIENCES

Promoting Science, Technology and Innovation for Socio-economic Development

Message by the President

January 2024

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President

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HI, SI, TI

Secretary General

Prof. Dr. M. Aslam Baig
HI, SI, TI

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First of all, my very sincere gratitude to the Fellows of the Pakistan Academy of Sciences (PAS) for electing me as President of the Academy for the term 2024-2026. I would like to acknowledge and appreciate the hard work of all my predecessors in streamlining the scientific program of the Academy during their respective terms for uplifting the scientific outputs and status of the Academy among the arena of other similar science academies world-wide.

Since its inception in 1953, the Pakistan Academy of Sciences has been playing a pivotal role in promoting innovation in scientific, academic, and technological output for socio-economic development in the country and the Academy needs to make this effort a sustainable one. Presently, the Academy has on its roll some 86 Pakistani Fellows, 37 Foreign Fellows, and 30 Pakistan national Members. Their achievements are well recognized by the Government of Pakistan in terms of 3 Nishan-i-Imtiaz, 14 Hilal-i-Imtiaz, and 34 Sitara-i-Imtiaz apart from many Pride of Performance and Tamgha-i-Imtiaz decorated scientists. The achievements of PAS are well narrated on the website of the Academy (www.paspk.org). To date, PAS has signed MoUs with over 20 Academies of Science, worldwide. Some of these MoUs are quite productive such as the MoU with Chinese Academy of Sciences (CAS), The World Academy of Sciences (TWAS), and the Islamic World Academy of Sciences (IAS). Presently, the Academy is working to sign the MoUs with Tajikistan and Belarus through the Ministry of Foreign Affairs, Government of Pakistan. Under the ongoing PSDP Project awarded by Planning Commission of Pakistan in March 2020, the Academy has created state of the art facilities at its Secretariat including Video-Conferencing Facility Rooms, Scientific Advice to Government Unit (Policy Unit) to assist the government stakeholders (Ministries) for compilation, review, and upgradation of national policies by the Fellows of the Academy. Through this project, the Academy has organized several national & international science conferences and awarded grants for research, travel, and conference participation and revision of curricula of various science subjects.

Under the present economic situation in the country, the newly elected PAS Council has a role to play for the socio-economic uplift of the country whereby, the Council with the support of talent pool of the Academy may foster efforts to invest in research, education, and regional collaboration for sustainability, resilience, and human well-being in the country.

Prof. Dr. Kauser Abdulla Malik *HI, SI, TI*
President PAS

**Fellows and Members
may submit news and
views related to Science
and Technology to:**

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New Council of Pakistan Academy of Sciences

The newly elected office bearers of the Pakistan Academy of Sciences for the term 2024 – 2026 are:



Dr. Kauser Abdulla Malik
President



Dr. Mohammad Qaiser
Vice President



Dr. Muhammad Ashraf
Vice President



Dr. Khalid Mahmood Khan
Past President



Dr. M. Aslam Baig
Secretary General



Dr. Abdul Rauf Shakoori
Associate Secretary General



Dr. Saleem Asghar
Treasurer



Dr. M. Waheed Akhtar
Secretary Punjab Chapter



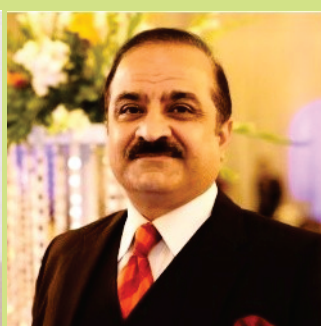
Dr. M. Raza Shah
Secretary Sindh Chapter



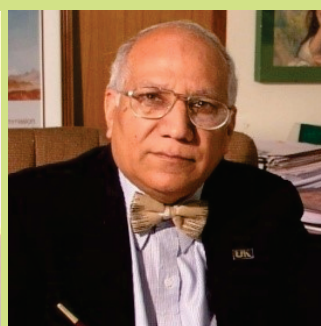
Dr. Sardar Khan
Secretary KP Chapter



Dr. Saqib Ali
Member



Maj. Gen. Dr. Aamer Ikram
Member



Dr. Ahmad Mukhtar Khalid
Member



Dr. Asghari Maqsood
Member

Note: The General Body (GB) approved the successful candidates for the period 2024-2026. Secretary Quetta Chapter is yet to be elected. Similarly, nominations are awaited from the Ministry of Education, Higher Education Commission, and Ministry of Science & Technology for three Members of the Council.

2023 General Body Meeting of the Pakistan Academy of Sciences



The General Body Meeting of the Pakistan Academy of Sciences (PAS) was held on 02 December 2023 in the Auditorium of the Academy. On the request of the Secretary General PAS, the General Body offered Fatiha for the departed soul of Prof. Dr. Misbah-ud-Din Shami. The main agenda of the GB meeting was to induct Fellows and Members elected during the year 2022; announcement of new Fellows and Members elected during the year 2023, announcement/award of PAS Gold Medals and Prizes to the winning scientists, academicians, and engineers in recognition of their novel contributions to Science in Pakistan during the year 2022; as well as to inform the

Academy Fellows and Members about the salient scientific & academic achievements and upgradations of the Academy during the year 2023.

The GB Meeting was chaired by Prof. Dr. Khalid Mahmood Khan (*S.I.*), President PAS. Prof. Dr. Tasawar Hayat (*H.I., S.I., T.I.*), Secretary General PAS gave a power point presentation to the attendees of the GB Meeting portraying the vibrant and extraordinary contributions of PAS in terms of collaborations with other scientific organization and institution within Pakistan and abroad during the year 2022-2023.

Induction of Fellows Elected during the Year 2022

Secretary General PAS informed the General Body (GB) that the following four (04) scientists, who were elected by the GB as Fellow in the year 2022 and formally inducted as PAS Fellows.

Dr. Mujahid Abbas, Professor, Department of Mathematics, Government College University, Lahore, was elected as Fellow of the Academy in 2022. The Secretary General introduced him by reading his brief citations and given a medallion and certificate by the President PAS, Dr. Khalid Mahmood Khan, during the GB meeting held in Islamabad on December 2, 2023.



Dr. Faqir Muhammad Anjum, Ex Vice Chancellor, University of The Gambia, was elected as Fellow of the Academy in 2022. The Secretary General introduced him by reading his brief citations and given a medallion and certificate by the President PAS, Dr. Khalid Mahmood Khan, during the GB meeting held in Islamabad on December 2, 2023.



Induction of Fellows Elected during the Year 2022

Dr. Shahid Mahmood Baig, Chairman, Pakistan Science Foundation (PSF), 1-Constitution Avenue G-5/2 Islamabad, was elected as Fellow of the Academy in 2022. The Secretary General introduced him by reading his brief citations and given a medallion and certificate by the President PAS, Dr. Khalid Mahmood Khan, during the GB meeting held in Islamabad on December 2, 2023.



Dr. Jamshed Iqbal, Professor, Centre for Advance Drug Research (CADR), COMSATS University Islamabad, Abbottabad Campus, was elected as Fellow of the Academy in 2022. The Secretary General introduced him by reading his brief citations and given a medallion and certificate by the President PAS, Dr. Khalid Mahmood Khan, during the GB meeting held in Islamabad on December 2, 2023.



New Fellows of PAS Elected during the Year 2023

The following eminent scientists were elected as Fellows of the PAS during 2023.

Dr. Zaheer ul Haq

Professor

Dr. Panjwani Centre for Molecular Medicine and Drug Research,
ICCBS, University of Karachi, Karachi



Dr. Zahir Ahmad Zahir

Professor

Institute of Soil and Environmental Sciences, University of
Agriculture, Faisalabad



New Foreign Fellows of PAS Elected during the Year 2023

The following eminent scientists were elected as Foreign Fellows of the PAS during 2023.

Prof. Yongguan (Y-G) Zhu

Science Director

Institute of Urban Environment

Chinese Academy of Sciences 1799 Jimei Road Xiamen 36102, China



Prof. Dr. Jian Lin

Deputy Executive Director

Southern University of Science and Technology, Chair Professor, since 2020 China-Pakistan Joint Research Center on Earth Sciences (CPJRC) and

Director

Ocean and Marginal Sea Geology Key Laboratory at South China Sea Institute of Oceanology (Chinese Academy of Sciences)



Prof. Xiao-Jun Yang

Professor

State Key Laboratory for Geomechanics and Deep Underground Engineering and School of Mathematics China University of Mining and Technology, No.1, Daxue Road, Xuzhou 221116, Jiangsu China



New Members of PAS Elected during the Year 2023

The following eminent scientists were elected as Members of the PAS during 2023.

Dr. Shah Fahad

Assistant Professor

Department of Agronomy,

Abdul Wali Khan University | Mardan, Khyber Pakhtunkhwa



Dr. Faisal Shahzad

Associate Professor

Department of Metallurgy and Materials Engineering, PIEAS, Islamabad



Dr. Zia ur Rehman Mashwani

Assistant Professor

Department of Botany

PMAS Arid Agriculture University, Rawalpindi



PAS Gold Medals and Prizes during the Year 2023

The General Body has approved the PAS Gold Medals and Prizes 2023 in various disciplines for the following scientists.

Agricultural Sciences

Dr. Muhammad Ijaz

Professor

Department of Veterinary Medicine

University of Veterinary and Animal Sciences, Lahore



PAS Gold Medals and Prizes during the Year 2023

Biological Sciences

Dr. Najeeha Talat Iqbal

Associate Professor

Dept. of Pediatrics and Biological & Biomedical Sciences, The Aga Khan University Karachi



Chemical Sciences

Dr. Muhammad Yaseen

Associate Professor,

Institute of Chemical Sciences, University of Peshawar, Pakistan



Earth and Environmental Sciences

Dr. Syed Ali Musstjab

Associate Professor

COMSATS University Islamabad



Emerging Technologies

Dr. Zafar Hussian Ibupoto

Associate Professor

Dr. M. A. Kazi Institute of Chemistry, University of Sindh, Jamshoro



Engineering Sciences

Dr. Syed Ali Hassan

Professor

School of Electrical Engineering & Computer Sciences, NUST, Islamabad



Health Sciences

Dr. Kanwal Rehman

Associate Professor

Department of Pharmacy, The Women University, Multan



Mathematical Sciences

Dr. Muhammad Akram

Professor

Department of Mathematics, University of Punjab, Lahore



Dr. Atta-ur-Rahman Gold Medal in Chemistry for Scientists under 40

Dr. Muhammad Khalid

Assistant Professor

Department of Chemistry, Khwaja Fareed University of Engineering & IT, Rahim Yar Khan



Dr. M. Raziuddin Siddiqi Prize in Mathematics for Scientists under 40

Dr. Asad Ullah

Associate Professor

Department of Mathematical Sciences, Karakoram International University, Gilgit



Prof. Zabta K. Shinwari Gold Medal in Biotechnology for scientists under 50

Dr. M. Daud Khan

Professor

Dept. of Biotechnology & Genetic Engineering, Kohat University of Science and Technology, Kohat



Abdus Salam Prize in Basic Sciences in Chemistry for Young Scientists under 40

Dr. Muhammad Siraj ud Din

Associate Professor

Department of Chemistry, University of Science and Technology, Bannu



Salimuzzaman Siddiqui Prize in Applied Science-Technology in Agricultural Sciences for Scientists under 40

Dr. Saddam Hussain

Assistant Professor

Department of Agronomy, University of Agriculture, Faisalabad



Prof. Anwar Gilani Gold Medal in Pharmacology

Dr. Abdul Jabbar Shah

Professor

Department of Pharmacy, COMSATS University, Abbottabad Campus



Visit of Vice President of the African Academy of Sciences to PAS (November 8, 2023)

The Vice President of the African Academy of Sciences (AAS) visited the Pakistan Academy of Sciences (PAS) on November 8, 2023. Prof. Dr. Tasawar Hayat (Secretary General, PAS) welcomed him and briefed him about the

academic & scientific role of PAS and its achievements. They also discussed the possibilities of collaboration on scientific and technical matters of mutual interest.



9th International Conference on “Recent Developments in Fluid Mechanics, Environmental Sciences and Renewable Energy” (November 27-29, 2023)

Pakistan Academy of Sciences (PAS) in collaboration with the Islamic World Academy of Sciences (IAS) and Fluid Mechanics Group (FMG), organized a 3-day International Conference from November 27-29, 2023 at the PAS Auditorium, Islamabad.

Prof. Dr. Khalid M. Khan, Patron & President PAS, Prof. Dr. Tasawar Hayat, Secretary General PAS, and Prof. Dr. Saleem Asghar, Senior Fellow PAS, addressed and welcomed the conference participants. Prof. Dr. Zia-ul-Qayyum, Executive Director, HEC, was invited as a Chief Guest.

The conference aimed to provide a forum to advance the frontiers of knowledge, cross-fertilization of ideas and to remove the isolation among the scientists and to help the

researchers in exchanging ideas for diverse disciplines and in the consolidation of research collaboration with the leading foreign investigators.

The conference covered a total of 27 talks (16 International and 11 National speakers) on a wide spectrum of subjects including peristalsis, blood flow, gliding motility of bacteria, mathematical modelling, mathematical methods, industrial and environmental heat and mass transfer, environmental pollution management, nanomaterial synthesis, solar cell assembly, solar energy materials, materials characterization, energy and water resources, climate change thermodynamics, systems ecology and Nanofluid modelling.



Pakistan Academy of Sciences (PAS) and Pakistan Science Foundation (PSF) Joint “PAK-SWISS Workshops on Genomic Medicine and Earthquake Engineering” (November 21, 2023)

Pakistan Science Foundation (PSF) jointly organized the “PAK-SWISS Workshops” on “Genomic Medicine” and “Earthquake Engineering” in collaboration with the Pakistan Academy of Sciences (PAS) at the PSF and PAS auditoriums, respectively. The inaugural session of both of the workshops was held at the PAS auditorium on November 21, 2023.

Prof. Dr. Shahid Mahmood Baig (*H.I., S.I.*), Fellow PAS & Chairman PSF; Prof. Dr. Khalid Mahmood Khan (*S.I.*), President PAS and Mr. Alberto Groff, Deputy Head of Mission, Swiss Embassy of Switzerland addressed the inaugural session. Dr. Igor Tomic, Prof. Dr. Irshad Ahmad, Dr. M. Usman and Prof. Dr. Amjad Naseer talked on various topics about the Earthquake Engineering.



Invited Talk: “Mysteries of Quantum Mechanics” by Prof. Dr. Muhammad Suhail Zubairy (Fellow PAS) (January 4, 2024)

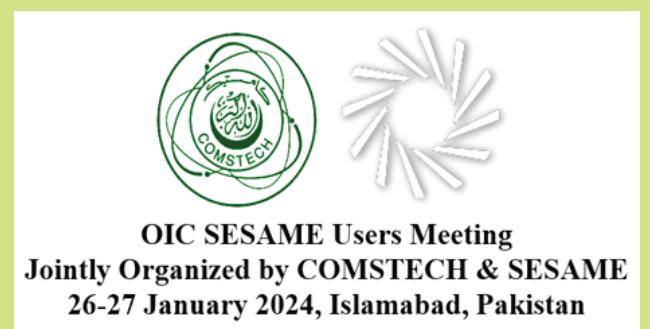
Pakistan Academy of Sciences (PAS) organized a popular talk on “Mysteries of Quantum Mechanics” by Prof. Dr. Muhammad Suhail Zubairy (*HI, SI, FPAS*), University Distinguished Professor, Department of Physics and Astronomy, Texas A&M University (USA) in the Auditorium of the Academy on January 4, 2024. Prof. Dr. Aslam Baig (*HI, SI, TI*), Secretary General PAS welcomed the honorable speaker and the participants. Around 180 participants from various academic institutions such as PAEC Model College (Nilore, Islamabad), Siddeeq Public School & College (Rawalpindi), Islamabad College for Boys (G-6, Islamabad), Super Nova School (Islamabad), as well as academicians and professionals from local universities and R&D institutions (QAU, AIOU, PSF, NILOP) attended the lecture. Some Fellows of the Academy also attended the lecture physically and virtually. In his talk, Prof. Suhail Zubairy discussed the importance of quantum mechanics

in relation to concepts of classical mechanics to understand the nature and significance of various scientific phenomenon and shared recent advancements and challenges in the field of Quantum Mechanics. There was an active question/answer session after the talk. A representative of the Pakistan Science Foundation (PSF) congratulated Prof. Suhail Zubairy for his very impressive talk and for explaining some of the very complex phenomena of quantum mechanics to young science students in an easy and understandable way. The event concluded with a demonstration of scientific models (robots) developed by students of Islamabad College for Boys. The students also facilitated observation of sunspots using an Astronomical Telescope gifted by a space scientist working at CERN (The European Organization for Nuclear Research) to the team of Pakistani students who participated in a science competition at CERN in 2023.



A Two-day International Conference from OIC Countries (January 26-27, 2024)

COMSTECH & SESAME jointly organized a Two-day International Conference from OIC Countries at the auditorium of the COMSTECH Secretariat from 26-27 January 2024. Prof. Dr. M. Aslam Baig (*HI, SI, TI*), Secretary General PAS; and Dr. M. Javed Akhtar, Editor PAS, were the resource persons of the event and they also presented the following talks, titled: Synchrotron Radiation: A Versatile Source for Atomic Structure Studies; and SESAME Beamlines and Tips for successful proposals, respectively.



Invited Talk: “Disruption of Glymphatic Circulation in Neurotrauma and Environmental Risk Factors” by Dr. Rashad Hussain (February 22, 2024)

Pakistan Academy of Sciences (PAS) organized a popular talk on “Disruption of Glymphatic Circulation in Neurotrauma and Environmental Risk Factors” by Dr. Rashad Hussain, Assistant Professor, University of Rochester, NY, USA, in the Auditorium of the Academy on February 22, 2024. Prof. Dr. Aslam Baig (HI, SI, TI), Secretary General PAS welcomed the honorable speaker and the participants. Prof. Dr. Kauser Abdulla Malik (HI, SI, TI), President PAS; and Prof. Dr. M. Aslam Baig (HI, SI, TI), Secretary General PAS, were the main organizers of the presented talk. Dr. Muhammad Ali, Member, PAS was the focal person of the event.

The talk aimed to provide crucial insights into the interconnected pathways of Traumatic Brain Injury (TBI) and Alzheimer's Disease (AD), glymphatic flow, and air pollution impact, opening new avenues for damage

prevention and therapeutic intervention; to elaborate how TBI disrupts glymphatic functionality, hindering the removal of metabolic wastes and cellular debris from the brain; the role of glymphatic flow in mitigating cerebral edema, a critical factor in TBI-related morbidity and mortality; to emphasize the potential of targeting adrenergic receptors to restore glymphatic function in TBI, and highlight the need for environmental strategies to preserve glymphatic health in the context of AD.

The event concluded with a brainstorming session among the participated neuroscientists, environmentalists, and research students from various institutions about the emerging link between air pollution exposure and cognitive decline in AD. Prof. Dr. M. Aslam Baig along with Prof. Dr. Tasawar Hayat, Ex-Secretary General, PAS, presented the shield to the invited speaker.



Annual Science Fest at Islamabad Model College for boys, G-6/3, Islamabad (January 31, 2024)

Pakistan Academy of Sciences co-sponsored an “Annual Science Fest” held on 31 January 2024 at Islamabad Model College for boys, G-6/3, Islamabad. Prof. Dr. M. Aslam Baig (HI, SI, TI), Secretary General PAS, was the Chief Guest at

the occasion. Prof. Aslam Baig inaugurated the science exhibition and distributed cash prizes (first three cash prizes were awarded by PAS) to winners of science models developed by young students of ICB.



OWSD Pakistan Chapter Hosts Landmark Biosafety Conference "Navigating Biorisk Management in Pakistan" (December 29-30, 2023)

and a pre-conference workshop on "Effective Biological Risk Mitigation Training Strategies"

The Organization for Women in Science for the Developing World (OWSD) - Pakistan National Chapter in collaboration with the Pakistan Academy of Sciences (PAS) arranged its second national conference at Dr. A.Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi. The theme of the conference was based on biosafety and biosecurity. Prior to the main event, a pre-conference workshop was organized on December 28, 2023. The "OWSD Conference on Biosafety: Navigating Biorisk Management in Pakistan" was held on December 29 and 30, 2023 with a focus on addressing key challenges and fostering excellence in biosafety practices. The pre-conference workshop on "Effective Biological Risk Mitigation Training Strategies" convened a distinguished panel of biosafety experts. Organized in collaboration with the Pakistan Biological Safety Association (PBSA) and the Pakistan Academy of Sciences (PAS), the event aimed to equip professionals and enthusiasts with robust strategies for managing biological risks. Led by renowned speakers in the field, including Prof. Saeed Khan, Dr. Zulfiqar Ali Naqvi, Ms. Aneeta Hotwani, Dr. Maria Zahid, and Mr. Furqan Kabir, the workshop delved into crucial aspects of biosafety such as SOP development, infectious substance transportation, waste and spill management, and risk assessment methodologies.

The conference featured plenary lectures by experts such as Prof. Erum Khan, Ms. Qandeel Zehra Zameer, Ms. Shahida Qureshi, and Dr. Huma Baqai, covering topics ranging from the national biosafety framework to environmental safety and socio-political dimensions of biorisk management. Students presented their research

through posters and oral presentations, evaluated by a panel of distinguished scientists. The event culminated in a grand ceremony, highlighting the inauguration of the Institutional Biorisk Management Committee (IBRMC) at KIBGE, University of Karachi.

The interactive sessions were followed by a poster presentation, showcasing research from various institutes. The workshop concluded with a certificate distribution ceremony, marking a significant step forward in bolstering biosafety practices nationwide.

The event concluded with addresses, lifetime membership awards, and insightful speeches by the Prof. Saeed Khan, President of PBSA, and Prof. Khalid Mahmood Iraqi, Vice-Chancellor, University of Karachi. Ms. Rana Hussain, Provincial Minister for School & College Education and Women Empowerment, Sindh graced the event as a chief guest and highlighted the future of biosafety and emphasized the crucial role of collaborative efforts. She also stressed the importance of ensuring human safety in various aspects of life. The winners of poster and oral presentations, judges, and the speakers were presented cash prizes, shields, and souvenirs, respectively. Prof. Bina Siddiqui, the President of OWSD, expressed sincere gratitude and extended a warm vote of thanks to organizers and participants.

The event concluded with a cultural evening and gala dinner, fostering networking and camaraderie among participants, with a shared commitment to advancing biosafety practices and research in Pakistan.



Participants with Vice Chancellor and President OWSD (Inauguration)



Vice Chancellor and President OWSD Distributing Certificates

International Seminar on “Pharmaceutical Manufacturing in OIC Member States: Status and Future” (January 24, 2024)

Prof. Dr. Mohammad Wasay, Fellow PAS and previous PAS Secretary Sindh Chapter, organized an International Seminar on “Pharmaceutical Manufacturing in OIC Member States: Status and Future” at COMSTECH Secretariat, Islamabad on January 24, 2024.

Dr. Waqar Masood Khan, Special Assistant to the Prime Minister on Finance and Revenue, inaugurated the conference as chief guest. Prof. Dr. Mohammad Wasay, from the Neurology Department, Agha Khan University, highlighted the importance of pharmaceutical

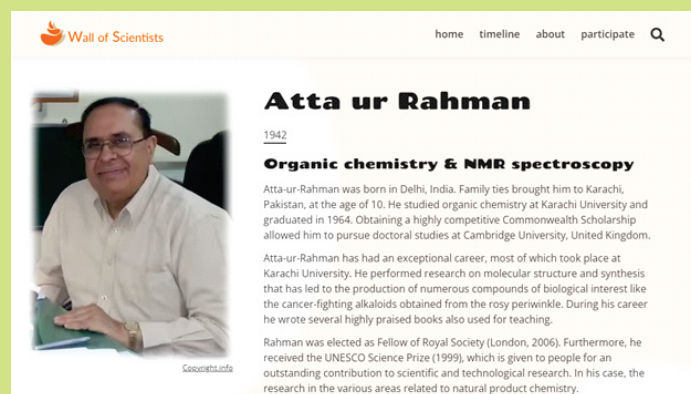
manufacturing in Pakistan. Coordinator General COMSTECH, Prof. Dr. M. Iqbal Choudhary emphasized increasing pharmaceutical exports of the country. In total 5 lectures were delivered at the conference. Mr. Asim Rauf CEO, Drug Regulatory Authority Pakistan; Mr. Zafar Bakhtawar President Islamabad chamber of commerce; Dr. Ubaid, Director DRAP; Dr. Abdul Rasheed, Ex Director DRAP, and Dr. Gul Shahnaz (Quaid i Azam University, Islamabad) were the main speakers at the event.



Prof. Atta-ur-Rahman Included in famous “Wall of Scientists”, Switzerland

Prof. Atta-ur-Rahman (Fellow PAS) has been added to the world famous “Wall of Scientists”, which is exhibited at Swiss Federal Institute of Technology, Eidgenössische Technische Hochschule (ETH).

Only the world's top scientists were included on this wall. It is pertinent to mention here that the Swiss Federal Institute of Technology, Eidgenössische Technische Hochschule is the leading engineering University based in Zurich, Switzerland, and ranked among the top 12 universities of the world by the Times Higher Education World Universities Rankings.



Prof. Atta-ur-Rahman honored by Top Swiss International Science Journal

The largest publisher of scientific books and journals in Switzerland, Molecular Diversity Preservation International, (MDPI), has published a special issue of the leading journal “Molecules” (I.F. 4.927) in honor of Prof. Atta-ur-Rahman. This represents an important recognition by the International academic community of Switzerland for the contributions of Prof. Atta-ur-Rahman to Science and Technology and Higher Education. This special issue contains articles of the top scientists from all over the world dedicated to Prof. Atta ur Rahman, ICCBS Patron-in-Chief and former Federal Minister for S & T.

It is pertinent to mention here that Prof. Atta-ur-Rahman is the most decorated scientist in Pakistan having won four civil awards, including Tamgha-i-Imtiaz, Sitara-i-Imtiaz, Hilal-i-Imtiaz, and the highest national award Nishan-i-Imtiaz. He was elected as a Fellow of the Royal Society (London) on 14th July 2006, Prof. Atta-ur-Rahman won the prestigious UNESCO Science Prize (1999). The Austrian government has honored him with its highest civil award (“Grosse Goldene Ehrenzeischen am Bande”) (2007) in recognition of his eminent contributions.

Prof. Atta-ur-Rahman Inaugurated Research Laboratory Established in his name at GCU, Lahore

Prof. Dr. Atta-Ur-Rahman, former Chairman of the Higher Education Commission and former Minister for Science and Technology, unveiled the Central Laboratory of Life Sciences at Govt. College University (GCU), Lahore. The Laboratory is named after him to honor his significant contributions to higher education and scientific advancement. The Central Laboratory, established by GCU, aimed to extend support for research and innovation.



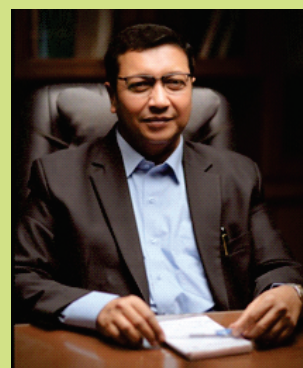
Notable Achievements of Prof. Dr. M. Iqbal Choudhary (Fellow PAS)

Tianjin Institute of Industrial Biotechnology - Chinese Academy of Sciences (TIB-CAS) has appointed Prof. Dr. M. Iqbal Choudhary, as visiting professor. Prof. Yan-He Ma, Director General of TIB-CAS bestowed this prestigious honor in a magnificent ceremony held at Tianjin, China. Prof. Choudhary is the only Pakistani scientist who has been honored with this appointment. This appointment underscores Prof. Choudhary's significant contributions to the field of medicinal chemistry and recognizes his expertise in the industrial biotechnology.

Prof. Dr. Iqbal Chaudhary (Fellow PAS), visited the Pasteur Institute of Iran, and signed a Memorandum of Understanding (MOU) with Dr. Rahim Sorouri, the Director of Pasteur Institute of Iran. The agreement entails the development and implementation of joint educational programs, research, technology, and innovation initiatives.

Prof. Dr. M. Iqbal Choudhary delivered a lecture on “Neglected Tropical Diseases- Unbridgeable Gap” at the prestigious Trieste Next Science Festival, Trieste, Italy.

He was also awarded by the “Indonesia Golden Award 2023” for his outstanding support to promote Education and Cooperation between Indonesia and Pakistan.



Prof. Cui Peng (PAS Foreign Fellow) awarded the Sergey Soloviev Medal of the European Geosciences Union

Prof. Cui Peng, Academician of the Chinese Academy of Sciences (CAS), and Foreign Fellow of the Pakistan Academy of Sciences, was awarded the Sergey Soloviev Medal by the European Geosciences Union (EGU) for acknowledging his outstanding scientific contributions in the formation mechanism, risk assessment, monitoring and early warning, disaster mitigation technology of geohazards such as debris flow, as well as his leading role in promoting international efforts on disaster risk reduction. The Sergey Soloviev Medal is awarded annually only to the scientist who has made outstanding scientific contribution to the basic theoretical research of natural hazards. Prof. Cui Peng is the first Chinese scientist to receive this award, and he has received an exclusive interview from EGU, which pointed out: “Prof. Cui Peng has played a great

leading role in the frontier of mountain disaster science, and promoted the development of disaster risk discipline. His research results have been applied to major disaster reduction in the world, and have been highly recognized by the international academic community.”

Recently, Prof. CUI Peng and his team developed a data-driven and process-based system for mountain torrent and debris flow early warning and risk forecasting. What sets the system apart from traditional early warning systems is that it is fully data-driven and process-based, requiring minimal human intervention. This enables them to provide more accurate early warning information, and their risk forecasting can better support disaster response planning for governmental agencies.



Prof. Dr. Jinde Cao (PAS Foreign Fellow) Appointed Fellow of Artificial Intelligence Industry Academy

In Feb. 2024, Dr. Jinde Cao was elected "Fellow of Artificial Intelligence Industry Academy" within the high-profile "International Artificial Intelligence Industry Alliance (AIIA)" based in Hong Kong, China. AIIA has a network of strong partnerships across the world to promote the development of and innovation for applications of artificial intelligence. Their membership of over 3,000 academicians and scientists possess extensive expertise and a wealth of research achievements. They offer cutting-edge technological insights and drive innovative research forward. The Alliance provides educational programs and events worldwide to drive research and innovation.



Prof. Dr. Jinde Cao (PAS Foreign Fellow), won the 2023 8th IETI Annual Scientific Award

Prof. Dr. Jinde Cao (PAS Foreign Fellow), won the 2023 8th IETI Annual Scientific Award from the International Engineering and Technology Institute (IETI), for their fundamental contributions to mathematical models, dynamical analysis, and control theory of various networked systems and complex dynamical networks with their engineering applications, and their outstanding contributions to international collaborations.

IETI Annual Scientific Award committee said, "This is a globally recognized and supreme reward and we are thrilled to present the 2023 8th IETI Annual Scientific Award to the excellent professors, for their contributions to technologies and engineering have made and continue to do a difference in the world."

Until now, IETI announced 20 winners, recognized for their exemplary performance in their academic years. IETI is a non-profit, non-religious, non-political international academic organization consisting of six Nobel prize laureates, three Turing award laureates, one Field medal laureate, three Wolf prize laureates, two John Bates Clark medal laureates, one MacArthur fellowship laureate, one

Oscar award laureate, and one King Faisal international prize laureate, 200+ academicians, 50+ ACM / IEEE fellows. The main goals of IETI are to provide an active forum for the applications of engineering and science, innovations of technology and science, and sustainability of social science. IETI chooses general education as its vision to promote the coordinated development of natural sciences, engineering sciences, and social sciences.



Obituary

Dr. Hameed Ahmed Khan (1942-2024)

Dr. Hameed Ahmed Khan (*HI, SI, TI*), a versatile Nuclear Physicist and one of the most highly rewarded academicians and researchers of Pakistan, breathed his last on February 12, 2024, in Islamabad. He was born at Rangoon (Burma) in 1942 and migrated to Pakistan in 1947. He received his college and university education at F.C. College and Govt. College, (Lahore) and obtained his B.Sc. (Hons.) and M.Sc. degrees from Punjab University in 1963 and 1964, respectively winning 'Role of Honors'. He joined the Pakistan Academy of Sciences (PAS) as a Fellow in 1990.

Dr. Khan enjoyed a distinguished career in the field of Nuclear Physics, Radiation Physics, and SSNTDs Reactor Physics. During his service, he held prestigious positions such as: Executive Director, COMSATS, 2000-2008; Director General, PINSTECH, 1996-2000. He served the PAEC from 1965-2000.

Dr. Khan was also the Fellow/Member of the various scientific societies/organizations such as: Fellow, Islamic Academy of Sciences, 1988; President, International Nuclear Track Society, UK, 1985; Fellow, Alexander von Humboldt (AVH), Philips University, Marburg, Germany, 1975; Member, Board of Studies in Physics, Quaid-i-Azam University, Islamabad, Pakistan; Member, Editorial Board, Radiation Effects (an International journal), Gordon and Breach Science, UK; Member, Radiation Measurements, a journal published in UK; Editor-in-Chief, The Nucleus, (published by Pakistan Atomic Energy Commission), 1993;

Member, Editorial Board, Science International (a Pakistani Scientific journal), 1993; National Counterpart, Joint UNDP/ PCA/ IAEA Project, "Better Management of Environment, National Resources and Industrial Growth through Isotopic and Radiation Technology", 1997.

In recognition of his academic and scientific achievements, Dr. Hameed Ahmed Khan received prestigious awards, including Hilal-i-Imtiaz, (1999) and Sitara-i-Imtiaz, (1984), Govt. of Pakistan; International TWNSO Prize in Technology, Third World Network of Scientific Organizations (TWNSO), Trieste, Italy, 1998; Khwarizmi Prize, Govt. Iran, 1993; Gold Medal, Pakistan Academy of Sciences, 1975 and 1994; 1st Prize in Physics, National Book Foundation, Govt. of Pakistan, 1991, 1992, 1993.

May Allah Almighty bless the departed soul with eternal Peace. Ameen

