



News Letter

PAKISTAN ACADEMY OF SCIENCES

Promoting Science, Technology and Innovation for Socio-economic Development

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2017 General Body Meeting of Pakistan Academy of Sciences



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Dr. Anwar Nasim
SI

Secretary General

Prof. Zabta K. Shinwari
TI

Treasurer

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The General Body Meeting of Pakistan Academy of Sciences was held on 1st November 2017. The meeting comprised of the induction of a Fellow elected in 2016, Foreign Fellows elected in 2016 & 2017 and conferment of Gold Medals and Prizes to the winning scientists for their contributions to Science in Pakistan.

Prof. Dr. Zabta Khan Shinwari, Secretary General, Pakistan Academy of Sciences gave a presentation portraying the remarkable contributions of PAS in terms of collaborations with other scientific institutions in the country and international scientific forums during 2015-2017. It also included all the MoUs, Conferences, Seminars, Visit of Foreign Scientists to the Academy and consultative workshops on "Making Pakistan Science Conscious".

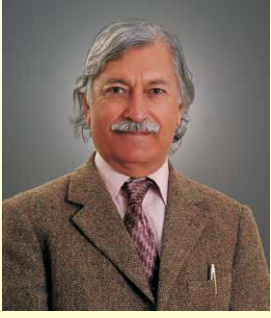
Prof. Dr. M Qasim Jan, the in-coming President of Pakistan Academy of Sciences, in his address complimented the outgoing Council. He particularly congratulated Dr. Anwar Nasim and Dr Zabta K. Shinwari for a very successful and engaging term of three years. He also stated that now the Academy has become more vibrant internationally, leading to a greater global recognition.

Prof. Dr. M. Aslam Baig, the in-coming Secretary General of PAS and **Dr. Kausar Abdulla Malik** also appreciated achievements of the Academy during the past three years.

Dr. Anwar Nasim, President of Pakistan Academy of Sciences, thanked all Fellows for their support to the Council. He wished all the best to the future Council.

New Council of Pakistan Academy of Sciences

The newly elected office bearers of the Pakistan Academy of Sciences for the term 2018–2020 are:



President
Prof. Dr. M. Qasim Jan



Vice President
Prof. Dr. Kauser A. Malik



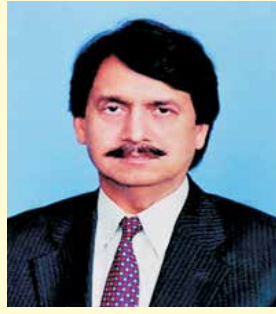
Vice President
Prof. Dr. M. Ajmal Khan



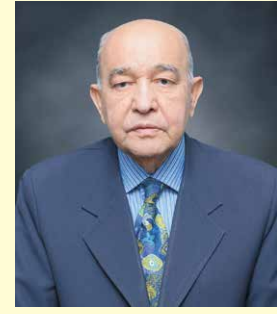
Past President
Dr. Anwar Nasim



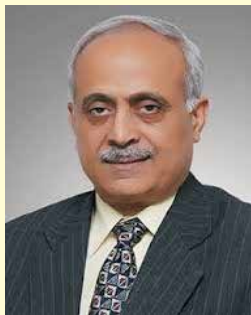
Secretary General
Prof. Dr. M. Aslam Baig



Associate Secretary General
Prof. Dr. A. R. Shakoori



Treasurer
Prof. Dr. G. A. Miana



Secretary Lahore Chapter
Prof. Dr. Iqrar Ahmed Khan



Secretary Karachi Chapter
Prof. Dr. Khalid M. Khan



Secretary Quetta Chapter
Prof. Dr. Masoom Yasinzai



Member
Prof. Dr. Asghari
Maqsood



Member
Prof. Dr. M. Waheed
Akhtar



Member
Prof. Dr. Saqib Ali



Member
Prof. Dr. Viqar Uddin
Ahmad

Note: Secretary Peshawar Chapter is yet to be elected. Similarly, nominations are awaited from Ministry of Education, Higher Education Commission and Ministry of Science & Technology for three Members of the Council.

Induction of Fellow Elected during 2016

Prof. Dr. Tayyab Husnain, Acting Director, Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore was elected as Fellow of the Academy during the year 2016. He was formally inducted and given medallion and certificate by the President PAS, Dr. Anwar Nasim, during the General Body Meeting held in Islamabad on November 1, 2017. The inducted Fellow signed the Charter Book of the Pakistan Academy of Sciences.



New Fellows of PAS Elected during 2017

The following eminent scientists were elected as Fellows of the Pakistan Academy of Sciences during the year 2017.

Prof. Dr. Mohammad Wassay
Department of Medicine
The Aga Khan University, Karachi

Prof. Dr. Hafeez-ur- Rehman Hoorani
Director General, National Centre for Physics
QAU Campus, Islamabad

New Foreign Fellows of PAS Elected during 2016 and 2017

The following eminent scientists were elected as Foreign Fellows of the Pakistan Academy of Sciences during the year 2016.

Prof. Dr. David Smith
Department of Chemistry
University of Nebraska-Lincoln
USA

Prof. Dr. Jinde Cao
Department of Mathematics
Southeast University
Nanjing, China

Prof. Dr. Berd Michael Rode
Department of Chemistry
University of Innsbruck
Austria

The following eminent scientist was elected as Foreign Fellows of the Pakistan Academy of Sciences during the year 2017.

Prof. Dr. Samar Hasnain
Co-Director of Barkla X-ray Laboratory of Biophysics
Faculty of Health & Life Sciences
University of Liverpool, UK

New Members of PAS Elected during 2016 and 2017

The following eminent scientists were elected as Members of the Pakistan Academy of Sciences during the year 2016.

Dr. Mushtaq Ahmad
Associate Professor
Department of Plant Science
QAU, Islamabad

Dr. Nudrat Aisha Akram
Assistant Professor
Department of Botany
GC University, Faisalabad

Dr. Zia ur Rahman
Assistant Professor
Department of Chemistry
QAU, Islamabad

The following eminent scientists were elected as Members of the Pakistan Academy of Sciences during the year 2017.

Dr. M. Farooq
Associate Professor
Department of Agronomy
University of Agriculture
Faisalabad

Dr. Sammar Yousaf
Assistant Professor
H.E.J. Research Institute
of Chemistry
University of Karachi

Dr. M. Zaffar Hashmi
Assistant Professor
COMSATS Institute of Information
& Technology
Islamabad

PAS Gold Medals, Prizes and Certificates

The following scientists were conferred upon **PAS Gold Medals and Cash Prize** of Rs. 35,000 each. **Certificates** by the President PAS, **Dr. Anwar Nasim**, during the PAS General Body Meeting in Islamabad on November 1, 2017:

PAS Gold Medal in Agricultural

Dr. Muhammad Farooq

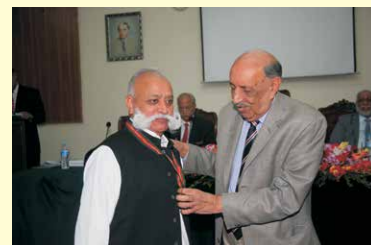
Associate Professor
Department of Agronomy
University of Agriculture, Faisalabad
(The award was received by his brother)



PAS Gold Medal in Biological Sciences

Syed Sohail Zahoor Zaidi

Chief Scientist Officer (Virology)
National Institute of Health
Islamabad, Pakistan



PAS Gold Medal in Chemical Sciences

Dr. Jamshed Iqbal

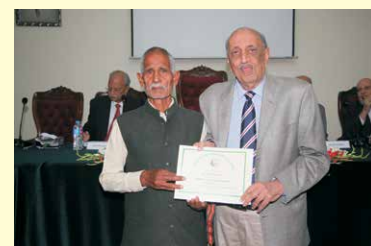
Head, Center for Advance Drug Research
Department of Pharmacy, CIIT
Abbottabad



PAS Gold Medal in Earth and Environmental Sciences

Dr. Shafaqat Ali

Tenured Professor,
Department of Mathematics
Quaid-i-Azam University
Islamabad
(The Award was received by his Father)



PAS Gold Medal in Emerging Technologies

Dr. Muhammad Idrees

Vice Chancellor
Hazara University,
Mansehra



PAS Gold Medal in Mathematical Sciences

Dr. Masood Khan

Associate Professor
Department of Mathematics
Quaid-i-Azam University,
Islamabad



PAS Gold Medal in Physics

Dr. Yaseen Iqbal

Chairman
Department of Physics
Materials Research Laboratory
University of Peshawar
Peshawar



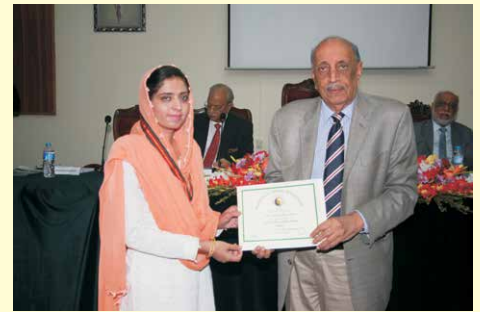
Dr. Atta-ur-Rahman Gold Medal

Dr. Atta-ur-Rahman Gold Medal in Chemistry for Young Scientists, under 40, for the year 2017 was won by **Dr. Zia-ur-Rehman**, Assistant Professor, Department of Chemistry, Quaid-i-Azam University, Islamabad. The Award comprised of a Gold Medal, a Certificate and Cash Prize of Rs. 35000/-.



Dr. Raziuddin Siddiqi Prize

Dr. Raziuddin Siddiqi Prize in Mathematics for Young Scientists, under 40, for the year 2017 was won by **Dr. Noreen Sher Akbar**, Assistant Professor, National University of Sciences & Technology, College of Electrical and Mechanical Engineering, Rawalpindi. The Award comprised of a Gold Medal, a Certificate and Cash Prize of Rs. 35000/-.



Prof. Zabta K. Shinwari Gold Medal

Prof. Zabta K. Shinwari Gold Medal in Biotechnology for Scientists under 50 for year 2017 was won by **Dr. Zulfiqar Ali**, Professor/Chairman, Department of Plant Breeding & Genetics, Muhammad Nawaz Shareef University of Agriculture, Multan. The Award comprised of a Gold Medal, a Certificate and Cash Prize of Rs. 30000/- . His son received the award on his behalf.



Abdus Salam Prize in Basic Sciences

Abdus Salam Prize in Basic Sciences in the field of Biology for Scientists under 40 for the year 2017 was won by **Dr. Tariq Mahmood**, Associate Professor/Chairman, Department of Plant Sciences, Quaid-i-Azam University, Islamabad. The Award comprised of a Certificate and Cash Prize of US\$ 2000/-.



Salimuzzan Siddiqui Prize in Applied Science-Technology

Salimuzzan Siddiqui Prize in Applied Science-Technology (2017) in Engineering Sciences for Scientists under 40 was won by **Dr. Sher Jamal Khan**, Institute of Environmental Sciences and Engineering (IESE), NUST, Islamabad. The Award comprised of a Certificate and Cash Prize of US\$ 1000/-.



Elsevier Publishes Two Books of Prof. Atta-Ur-Rahman

Two volumes of “Studies on Natural Product Chemistry” have been published by *Elsevier Science Publishers* (Volumes 54 and 55). The series was initiated under the editorship of Prof. Atta-ur Rahman, FRS 30 years ago and now has become the most comprehensive encyclopedic series which covers the chemistry and biological activities of natural products derived from terrestrial and marine sources



AASSA-NAST PHL International Symposium

The Association of Academies and Societies of Sciences in Asia (AASSA) organized a Symposium on "Realizing the Full Cycle of Research and Development: From Bench to the Community" in Tagaytay, Philippines. **Prof. Dr. Zabta Khan Shinwari**, represented Pakistan Academy of Sciences on the occasion. It may be mentioned that Prof. Dr. Zabta Khan Shinwari is also Treasurer of AASSA.



Dr. Ikram ul Haq, Fellow of PAS Honored by HEC

The Higher Education Commission (HEC) has conferred the Distinguished National Professor award upon **Prof. Dr. Ikram Ul Haq**, Director ORIC, Institute of Industrial Biotechnology, GC University, Lahore in recognition of his meritorious services in the field of Biology (Botany/Biotechnology). The award is presented to those academicians who exhibit exceptional performance in their respective fields.



2016-2017 Year Book of PAS: Updation of Fellows Profiles

The Pakistan Academy of Sciences publishes its Year Book every two years. The Year Book 2016-17 is currently being compiled for publication. The Fellows of the PAS, who have not updated their profiles as yet, are requested to please send us their updated profiles by December 15, 2017 to enable us to include in the Year Book.

Dr. N.M. Butt elected as Vice President of IAS Council

Dr. N. M. Butt has been elected as Vice President of Islamic World Academy of Sciences. The election was held during the 21st Conference of the Islamic World Academy of Sciences in Turkey. Other members of the new Council of the Islamic World Academy of Sciences can be viewed at: <http://www.iasworld.org/council/>



Prof. Dr. Zabta Khan Shinwari inducted as Fellow IAS

Prof. Dr. Zabta Khan Shinwari was elected as Fellow, Islamic World Academy of Sciences in 2016. He was formally inducted as Fellow during the 21st Conference of Islamic World Academy of Sciences,

in Turkey. He was honored by two former Prime Ministers of Jordan, Adnan Badran and A. Salam Majali, President of the IAS.



Scientific Books Published by University of Agriculture Faisalabad

USDA Endowment Fund at University of Agriculture, Faisalabad (UAF) has embarked upon an ambitious 'Books Project' by publishing reference text books. The UAF books shall be made available in both paper and electronic versions for a wider reach and affordability. The Managing Editor, **Prof. Dr. Iqrar A. Khan**, had personally overseen the entire process of short listing of the topics, assemblage of authors, review of contents and editorial work. This series of books cover a very broad range of subjects from theoretical physics and electronic image processing to hard core agricultural subjects and public policy.

It is hoped that the books produced will find a wide acceptance across the country and overseas and will serve a very important purpose of improving quality of teaching and learning. Hopefully, this is a beginning of unleashing the knowledge potential of UAF which shall be continued.

The Books can be viewed at the following Web Link:

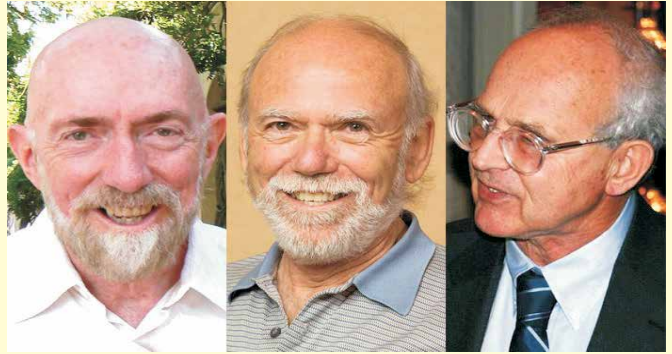
<http://onlinebooks.uaf.edu.pk/>



The 2017 Nobel Laureates

Nobel Prize in Physics

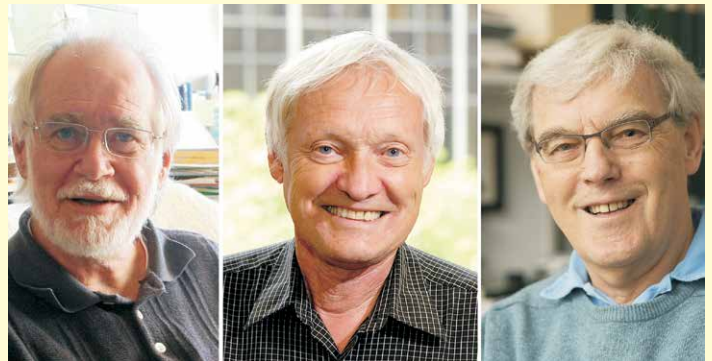
The Nobel Prize in Physics 2017 was awarded with one half to Rainer Weiss, and the other half jointly to Barry C. Barish and Kip S. Thorne "for decisive contributions to the LIGO detector and the observation of gravitational waves".



Kip S. Thorne Barry C. Barish Rainer Weiss

Nobel Prize in Chemistry

The Nobel Prize in Chemistry 2017 was awarded to Jacques Dubochet, Joachim Frank and Richard Henderson "for developing cryo-electron microscopy for the high-resolution structure determination of biomolecules in solution".



Jacques Dubochet Joachim Frank Richard Henderson

Nobel Prize in Physiology or Medicine

The Nobel Prize in Physiology or Medicine 2017 was awarded jointly to Jeffrey C. Hall, Michael Rosbash and Michael W. Young "for their discoveries of molecular mechanisms controlling the circadian rhythm"..



Jeffrey C. Hall Michael Rosbash Michael W. Young

The Sveriges Riksbank Prize in Economic Sciences

The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2017 was awarded to Richard H. Thaler "for his contributions to behavioural economics".



Bengt Holmström