



**Fifty Golden Years of  
Zoological Society of Pakistan  
(1968-2018)**



Abdul Aziz Khan

**Zoological Society of Pakistan**

**Fifty Golden Years of  
Zoological Society of Pakistan  
(1968-2018)**

*A Journey of Milestone Activities and Achievements*

**Abdul Aziz Khan**

**Secretary General**

Zoological Society of Pakistan



**ZOOLOGICAL SOCIETY OF PAKISTAN**

**2022**

# ZOOLOGICAL SOCIETY OF PAKISTAN

## Mission Statement

“Promoting Original Research in Zoological Sciences”

### Editor

Prof. Dr. A.R. Shakoori

T.I., Aizaz-i-Kamal, ECO Laureate

President, Zoological Society of Pakistan



@ Abdul Aziz Khan: Fifty Golden Years of Zoological Society of Pakistan

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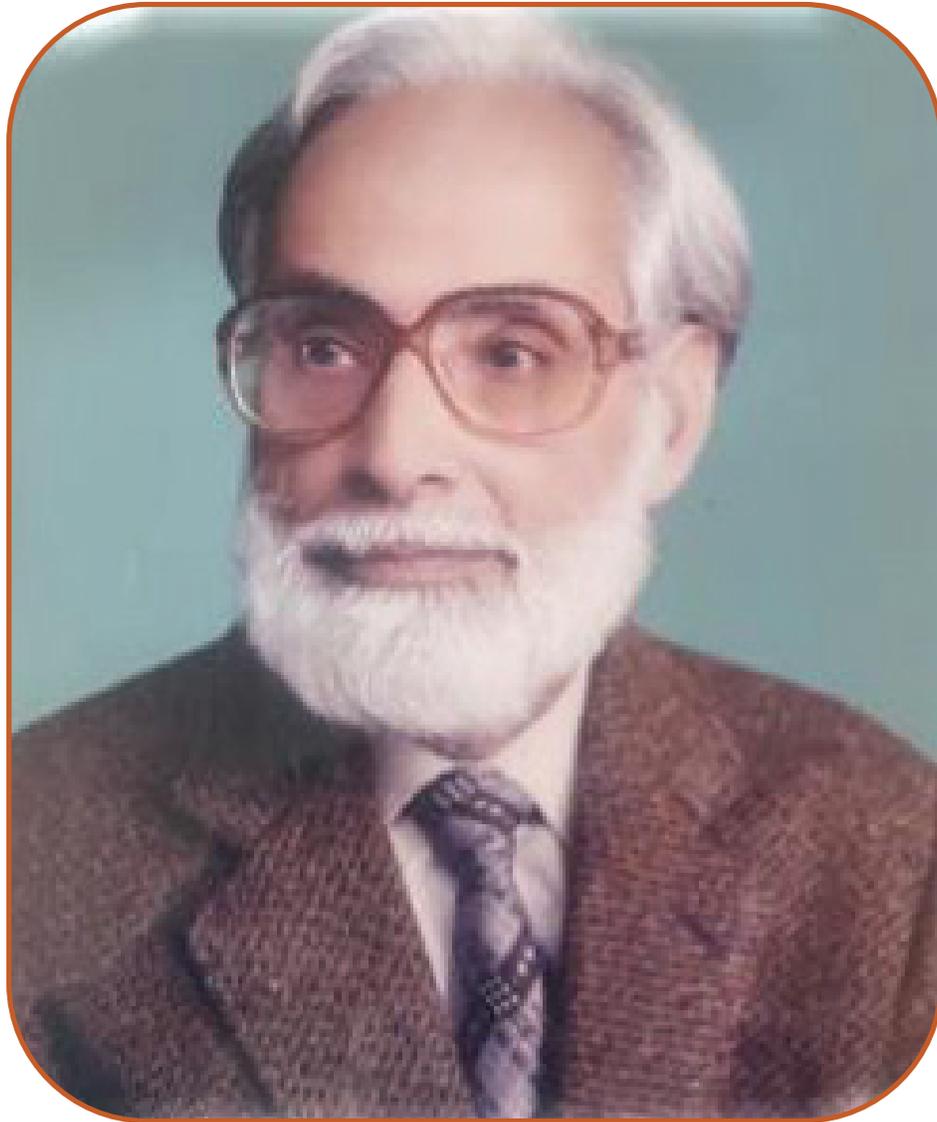
2022

Sindh Ibex, *Capra aegagrus*:

(Logo designed by Z.B. Mirza)

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**Prof. Dr. Muzaffer Ahmad**

Legend Founder Fellow  
Zoological Society of Pakistan  
Who nurtured the society for 50 years



# FOREWORD

I am pleased to learn that the Zoological Society of Pakistan is celebrating Golden Jubilee of its foundation. At this auspicious occasion, the Society is launching a commemorative book. This document highlights the major achievements and contributions of this legendary professional body.



Science societies play a key role in the advancement of relevant disciplines and subjects. These prestigious bodies, comprise of senior academician, scientists, young researchers, and students constantly strive to positively impart the status of education, research applications, and ethics of the fields they represent.

The Zoological Society of Pakistan, established in 1968, is among the most influential science societies of Pakistan. The Society has made tremendous contributions in the strengthening of education, promotion of research, and encouraging innovation and best practices in important field of zoology. Most importantly society has also been constantly engaged in developing understanding and appreciations of this subject in general public.

I am extremely delighted to witness that in last 5 decades, most prominent scientists of the country has worked selflessly and tirelessly to promote zoological sciences in Pakistan from the platform of the Society. They have played a major role in the strengthening of science and technology in the country. Their contributions and excellence are widely acknowledged nationally and internationally in the forms of fellowships, and honors.

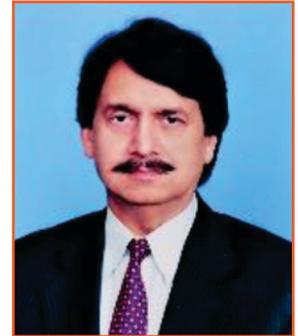
I would like to congratulate the President, Vice Presidents, Secretary General, other office bearers, as well as distinguished fellows and members of the society on this landmark occasion, and wish them an immense success in their mission of promotion of Zoological Science, and its application in national development.

**Prof. Dr. M. Iqbal Choudhary**  
*Mustafa (PBUH) Prize Laureate, H.I., S.I., T.I.*  
Director ICCBS /  
Distinguished National Professor/  
UNESCO Chair  
Coordinator General COMSTECH



# PREFACE

The Zoological Society of Pakistan (ZSP) was established by senior zoologists from both wings of the country in 1968 in Dacca with an aim to promote the subject of Zoology, at the occasion of an All Pakistan Science Conference organized by the Pakistan Association for the Advancement of Science. The first Executive Council (EC) was nominated by the founding fellows, representing all universities and the then relevant research organizations with a mandate to look after initial affairs (such as registration) of the Society, to mobilize all zoologists of the country by frequent contacts, framing Constitution of the Society and holding the election of the first elected EC of the Society. This herculean task was spear headed by Prof. Dr. Muzaffer Ahmad, Chairman, Department of Zoology, University of the Punjab, which was exquisitely accomplished by team of his younger dedicated students and colleagues.



Now 50 years have passed. ZSP is in place in its full bloom and with the same enthusiasm as it was in 1968. It has been regularly holding elections as provided in its constitution, regularly organizing annual scientific meetings under the banner of Pakistan Congress of Zoology, and regularly publishing an Impact Factor journal - Pakistan Congress of Zoology and Proceedings of Pakistan Congress of Zoology uninterrupted.

Prof. Dr. Muzaffer Ahmad has been a beacon light for successive elected ECs, who worked selflessly for the promotion of zoological sciences and research culture in the universities and other educational educations. This was achieved under the exemplary leadership of stalwarts like Prof. Dr. Ahmed Mohiuddin, Prof. Dr. Mehmood Hussain Qazi, Prof. Dr. Abdul Qadir Ansari, Prof. Dr. Daler Khan, Prof. Dr. Muhammad Arslan, Prof. Dr. Imtiaz Ahmad, Prof. Dr. Shahzad Ahmad Mufti, and Prof. Dr. Muhammad Afzal Kazmi.

Mr. Abdul Aziz Khan, an authority on Vertebrate Pest Control in Pakistan, in his capacity as Secretary General of ZSP has worked tirelessly in the promotion of the Zoological Society over the past four years. He undertook this onerous task of compiling 50 years history of ZSP highlighting the evolutionary development of the Society and documenting the academic achievements of the Fellows. I am sure this document will act as reference material for researchers.

## **Dr. Abdul Rauf Shakoori**

*Aizaz-I-Kamal, Tamgha-I-Imtiaz, ECO Laureate*

Fellow The World Academy of Sciences (TWAS)

Fellow Pakistan Academy of Sciences

Full Member SIGMA Xi

Academician Shandong Academy of Agricultural Sciences, Jinan, Shandong

Distinguished National Professor and Professor Emeritus

School of Biological Sciences, University of the Punjab, Lahore.



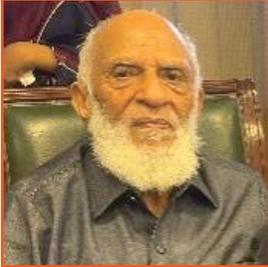
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## Septuagenarian and Octogenarian Zoologists Living Legends



**Prof. Dr. M. Anwar Malik**



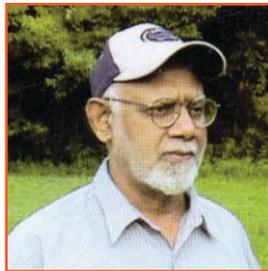
**Prof. Dr. Abdul Rauf Shakoori**



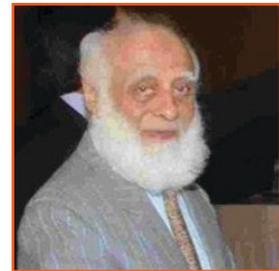
**Prof. Dr. Azizullah**



**Prof. Dr. Imtiaz Ahmad**



**Prof. Dr. Muhamad Sharif Khan**



**Prof. Dr. Abdul Qadir Ansari**



**Prof. Dr. Muhammad Arsalan**



**Prof. Dr. Syed Shamim Ahmed**



**Dr. Sajjad Aslam Shami**



**Prof. Dr. Afsar Mian**



**Prof. Dr. Mirza Azhar Beg**



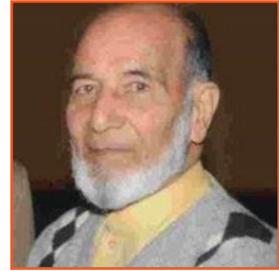
**Prof. Dr. Masood Anwar Quraishi**



**Mr. Zahid Beg Mirza**



**Mr. Abdul Aziz Khan**



**Dr. Fazle Majid Khan**



**Prof. Dr. M. Afzal Kazmi**



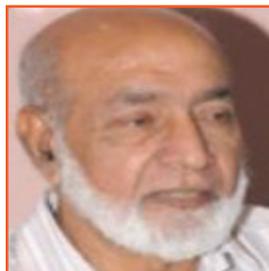
**Dr. M. Nazir Bhatti**



**Dr. Muhammad Irshad**



**Prof. Dr. Juma Khan Kakar**



**Dr. Abdul Aleem Ch.**

# 1. ORIGIN AND ORGANIZATION OF THE SOCIETY

## 1.1. Origin of the Society

The senior zoologists of Pakistan, gathered at Dacca in 1968 on the occasion of the Annual Conference of the Pakistan Association for the Advancement of Science, decided to form a society for the promotion of science of Zoology and its allied branches. The Society was named Zoological Society of Pakistan with its headquarters in the Department of Zoology of University of the Punjab, Lahore. The sole purpose of the Society was highlighted as “encouragement of original research in zoological sciences, both pure and applied”. It was unanimously agreed to achieve the objectives through (i) holding of conferences, symposia, seminars and consultative meetings; ii) publication and distribution of a scientific journal, monographs and books devoted to zoological research and education.

The senior and eminent Zoologists at that time, such as Dr. Muzaffar Ahmad from Lahore, Dr. Nurul Alam from Dacca, A.K.M. Aminul Haque from Mymensingh, Dr. Hamid Khan Bhatti from Lahore, Dr. Zakir Hussain from Dacca, Mian M. Afzal Hussain from Lahore, Dr. Ahmed Mohiuddin from Jamshoro, Dr. M.A.H. Qadri from Karachi, and Dr. Akbar Ali Khandker from Dacca, played pivotal role in explaining and disseminating the information about the functions and activities of the Society and persuaded young and senior zoologists of the universities, research institutions/organizations and colleges to become Fellows/ Members of the Society. In accordance with the objectives and functions of the Society fifty-four senior zoologists and scientists were inducted as Founding Fellows of the Society (Annexure VI) prior to framing its constitution and Bye-laws.

An ad hoc Governing Body was formed unanimously by the Founding Fellows to manage the of the Society till election of the first Executive Council which would take over the management of the Society (Table 1).

**Table 1. Ad hoc Governing Body of Zoological Society of Pakistan, 1968**

---

President:	Dr. M. Rahimullah Qureshi Retired Director of Fisheries, Karachi	
Vice-Presidents	Dr. Z. A. Hashmi Chairman, Pakistan Science Foundation, Islamabad	
	Dr. Ahmed Mohiuddin Professor of Zoology and Dean of Sciences Faculty, University of Sind, Jamshoro.	
Secretary:	Dr. Hamid Mahmood Registrar, University of Karachi, Karachi	
Treasurer:	Dr. M. Aslam Khan Associate Professor of International Medicine, Pakistan Medical Research Centre, Lahore	
Editor:	Dr. Muzaffer Ahmad Professor of Zoology, University of the Punjab, Lahore	
Councilors:	Dr. Abu Bakr Associate Professor of Zoology, University of the Punjab, Lahore	
	Dr. Mrs. Nasima Tirmizi Associate Professor of Zoology, University of Karachi, Karachi	

---

Dr. Hafiz Abdul Qayyum  
Professor of Entomology,  
University of Agriculture, Faisalabad



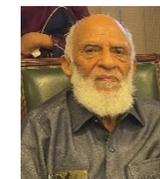
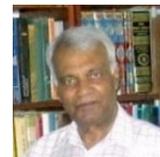
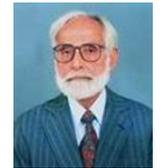
Dr. Nasim Siddiqi  
Associate Professor of Zoology,  
Peshawar University, Peshawar



---

The application for Registration of the Society was submitted with the names and signatures of the following senior zoologists.

1. Dr. Muzaffar Ahmad, Founder Fellow ZSP,  
Professor of Zoology, University of the Punjab, Lahore
2. Dr. Muhammad Aslam Khan, Life Fellow ZSP,  
Associate Professor of International Medicine,  
Pakistan Medical Research Centre, Lahore
3. Dr. Daler Khan, Founder Fellow ZSP,  
Professor of Zoology, University of the Punjab, Lahore
4. Dr. Fazle Majid Khan, Fellow ZSP,  
Resident Officer, University of the Punjab, Lahore
5. Dr. Muhammad Saleem Mahoon, Founder Fellow ZSP,  
Professor of Zoology, Government College, Lahore
6. Dr. Muhammad Anwar Malik, Fellow ZSP,  
Associate Professor of Zoology, Government College, Lahore
7. Dr. Abdul Rauf Shakoori, Fellow ZSP,  
Assistant Professor of Zoology,  
University of the Punjab, Lahore
8. Dr. Aziz Ullah, Fellow ZSP,  
Assistant Professor of Zoology, Government College, Lahore

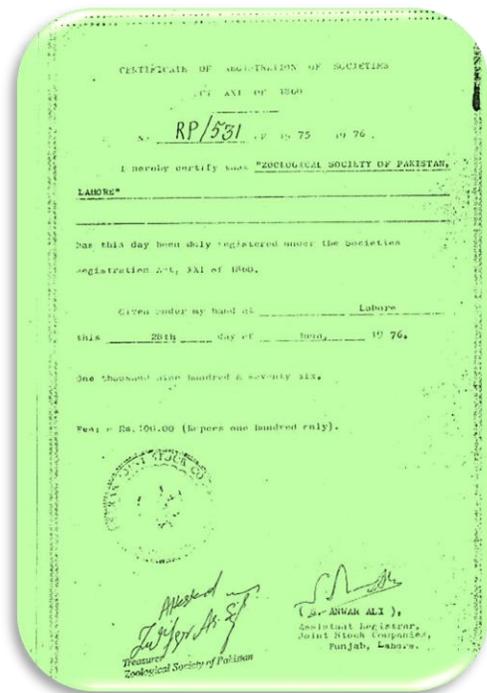


Thus, the Zoological Society of Pakistan came into being on 3<sup>rd</sup> March, 1968 and was registered as non-profit and non-political body, under Societies Registration Act XX1 of 1980 of Pakistan (Fig. 1).

## 1.2 Organization of the Society

The organization of the Society is divided into the Active Fellowship and the Inactive Membership. An Inactive Member, registered at the time of Annual Congress of Zoology, may become Active Fellow any time after the endorsement of Active Fellow and the payment of current dues. The Active Fellows maintain active association with the Society by making payment of annual dues. Life Fellows are inducted at the age of 50 years and above. The fellowship of an individual scientist to the Society is primarily based on the quantitative assessment of the scientific achievements with an aim to develop personal academic profile and acknowledging the contributions towards the development and promotion of the discipline of Zoological and Biological sciences. At present, the Society has, on its roll, 274 Life Fellows (Annexure I), 317 Fellows (Annexure II), and 48 Honorary Fellows (Annexure III).

Some of the eminent Zoologist Fellows of the Society have achieved prominence by being elected as the Fellow of Pakistan Academy of Sciences (PAS) and The World Academy of Sciences (TWAS) (Table 2). In addition, several mid-career researchers, who are Fellows of the Society have been honoured with the membership of the IUCN Species Specialist Groups (Annexure IV).



**Fig.1.** Image of the Registration of Zoological Society of Pakistan

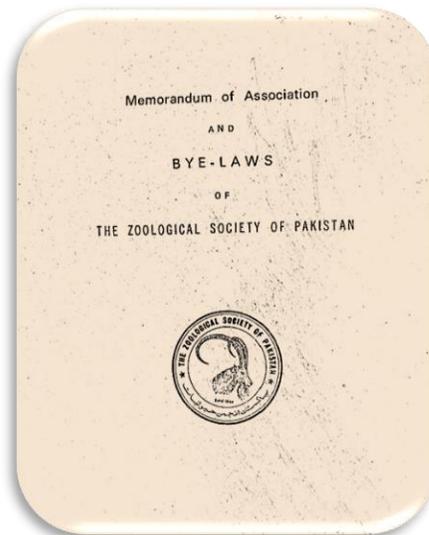
**Table 2. List of Fellows of ZSP who were elected as Fellows of Pakistan Academy of Sciences and the World Academy of Sciences (TWAS) of the Developing World\***

S. No	Name	Elected PAS Fellow in the Year	Elected TWAS Fellow in the Year
1	Prof. M. Afzal Hussain	1953	-
2	Prof. Dr. M. Sharif	1953	-
3	Prof. Dr. Hamid Khan Bhatti	1953	-
4	Prof. Dr. M. Afzal Hussain Qadri	1956	-
5	Prof. Dr. Nazir Ahmad	1958	-
6	Prof. Dr. Muzaffar Ahmad	1970	-
7	Prof. Dr. Ahmad Mohiuddin	1974	-
8	Dr. Heshamul Haque	1978	-
9	Prof. Dr. Mrs. Nasima Tirmazi	1980	-
10	Prof. Dr. Imtiaz Ahmad	1990	1996
11	Prof. Dr. Abdul Rauf Shakoori	1991	2004
12	Dr. Agha Ikram Mohiuddin	1992	-
13	Prof. Dr. M. Arslan	1993	-
14	Prof. Dr. M. Anwar Waqar	1995	-
15	Dr. Kausar Abdulla Malik	1995	1996
16	Dr. Nasir-ud-Din	1996	1996
17	Prof. Dr. Sheikh Riazuddin	1997	1989
18	Prof. Dr. M. A. Hafeez	1999	-
19	Prof. Dr. M. Perwaiz Iqbal	2002	-
20	Prof. Dr. Shahzad A. Mufti	2003	-
21	Prof. Dr. Muhammad Ashfaq	2006	2011
22	Prof. Dr. Abdul Hameed	2020	-

The control of Society's organization, programmes, and activities is vested with the elected Executive Council (EC) and General Body (GB), the meetings of which are held regularly, at least two of EC and one of GB, every year. "The organization shall be known as the Zoological Society of Pakistan, hereinafter called ZSP.

Records of the proceedings of EC, GB, and extraordinary meetings are meticulously maintained and reported to the following meeting of EC for approval/ratification and notification. For proper

functioning of the Society Bye-laws were framed in 1969 (Fig. 2). The bye-laws of the Society have laid down procedures for induction of Fellows, election of EC Office Bearers, Members, delegation of administrative and financial powers to EC and Office Bearers of the Society. The bye-laws of the Society may be amended by a two-third votes of members of GB provided the amendment has been considered and adopted by the EC, and thereafter, presented to GB for approval or disapproval.



**Fig. 2. Image of the Title of BYE-LAWS of Zoological Society of Pakistan**

During the early years of its establishment, the Society went through financial hardships, but ultimately with the passage of time, the Society was able to stand on its own feet. This was made possible of the untiring efforts of Prof. Dr. Ahmed Mohiuddin who was the First Secretary of the Society and worked in this capacity for a decade. During this period, by- Laws were framed, membership was raised, donations were obtained and regular grants obtained from the GOP agencies such as Pakistan Science Foundation and University Grant Commission. With the passage of time, the number of donors have increased.

### **1.3. Financial Support to the Society**

For future sustenance of the Society, it was decided by the EC to establish an Endowment Fund. It was created in 1991 with an initial donation of Rs. 5000/- by the University Grants Commission. During subsequent years more donations from Fellows of ZSP and other scientific organizations were deposited in this fund.

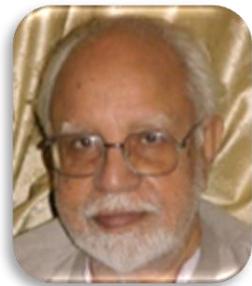
In addition following organizations/institutions have provided funds/donations to support the activities of the Zoological Society of Pakistan (Table 3).

**Table 3. List of funders / donors of ZSP**

Organization / Intitutions	Individual Donors
1. Pakistan Science Foundation, Islamabad	1. Prof. Dr. Naeem Tariq Narejo, Jamshoro
2. University Grants Commission, Islamabad	2. Prof. Dr. Tanveer Akhtar, Faisalabad
3. Pakistan Agricultural Research Council, Islamabad	3. Dr. Riffat Sultana, Jamshoro
4. Dr. A.Q. Khan Labs, Islamabad	
5. University of the Punjab, Lahore	
6. University of Karachi, Karachi	
7. Quaid-e-Azam University, Islamabad	
8. Hamdard University, Karachi	
9. University of Agriculture, Faisalabad	
10. Government College University, Faisalabad	
11. Government College University, Lahore	
12. University of Azad Jammu & Kashmir, Muzaffarabad	
13. Allama Iqbal Open University, Islamabad	
14. PMAS- Arid Agriculture University, Rawalpindi	
15. Sindh Agriculture University, Tandojam	
16. University of Sindh, Jamshoro	
17. Packages Ltd., Lahore	
18. Pakistan Atomic Energy Commission, Islamabad	
19. Hamdard Foundation, Karachi	
20. ISESCO, Rabat, Morocco	
21. COMSTECH, Islamabad	
22. World Society for the Protection of Animals (WASPA)	
23. World Wildlife Fund (Pak.), Lahore	
24. Bio-Resource Research Center, Islamabad	
25. Welcare Chemicals Corporation Ltd., Sahiwal	
26. Pakistan Academy of Sciences, Islamabad	
27. ECO Science Foundation, Islamabad.	
28. Higher Education Commission, Islamabad	

#### **1.4 Former Office Bearers of the Society (1969-2018)**

The First Executive Council (1968-69) comprised 12 members as shown in the facsimile of the list published in the first issue of Pakistan Journal of Zoology in 1969 (Fig. 3).



**THE ZOOLOGICAL SOCIETY OF PAKISTAN**  
Officers and Council for the year 1968-69

*President*  
**M. AFZAL HUSAIN, H.Q.A.**  
Lahore

*Vice-Presidents*

<b>M. A. H. QADRI</b> University of Karachi	<b>H. K. YUSUFZAI</b> University of Dacca
--	--

*Secretary*  
**AHMED MOHIUDDIN**  
Department of Zoology, University of Sind, Jamshoro

*Joint Secretary*  
**A. K. M. AMINUL HAQUE**  
Department of Fisheries Zoology  
Agricultural University, Mymensingh

*Treasurer*  
**SYED HAMID MAHMOOD**  
University of Karachi

*Editor*  
**MUZAFFER AHMAD**  
Department of Zoology, University of the Panjab, Lahore

*Council (together with Officers as above)*

<b>RAHIMULLAH QUREISHI</b> Karachi	<b>KAZI ZAKIR HUSAIN</b> University of Dacca
<b>MUSTAFIZUR RAHMAN</b> University of Rajshahi	<b>SHAMSUD DOHA</b> Agricultural University, Mymensingh
<b>MUHAMMAD YUNUS</b> Agricultural University, Lyallpur	



**Fig. 3.** Image of the First Executive Council printed in the 1<sup>st</sup> issue of Pakistan Journal of Zoology 1968-69

The detail of Executive Councils from 1968-2018 is shown in the Annexure V, while Office Bearers of the Society for the Year 2017-2020 are shown in Table 4.

**Table 4. Office bearers of the Society for the year 2017-2020**

Office		Names and Addresses of Office Bearers	
<b>President</b>		<b>Abdul Rauf Shakoori</b> University of the Punjab, Lahore	
<b>Vice-President</b>	<b>North</b>	<b>Muhammad Ali</b> Government College University, Faisalabad	
<b>Vice-President</b>	<b>South</b>	<b>Naeem Tariq Narejo</b> University of Sindh, Jamshoro	
<b>Secretary General</b>		<b>Abdul Aziz Khan</b> Islamabad	
<b>Joint Secretary</b>	<b>North</b>	<b>Zulfiqar Ali Saqib</b> BISE, Sahiwal	
<b>Joint Secretary</b>	<b>South</b>	<b>Riffat Sultana</b> University of Sindh, Jamshoro	
<b>Treasurer</b>		<b>Abdul Rehman</b> University of the Punjab, Lahore	

<p><b>Chief Editor</b></p>	<p><b>Abdul Rauf Shakoori</b> University of the Punjab, Lahore</p>	
<p><b>Assistant Editors</b></p>	<p><b>Abdul Rehman</b> University of the Punjab, Lahore</p>	
	<p><b>Abdul Aleem Chaudhary, Lahore</b></p>	
	<p><b>Muhammad Khan, Lahore</b> University of the Punjab, Lahore</p>	

## Executive Council Members



Nuzhat Shahi  
Ataf Jinnah & Kashmir



AE Muhammad Yousofzai  
Peshawar



Javed Iqbal Qazi  
Lahore



Asmat Ullah Kakar  
Quetta



Rubina Mushtaq  
Karachi



Khalid Ahmed  
Gijit



Akbar Ali Khan  
Faisalabad



Farah Raza Shakoori  
Lahore



Bushra Mansoor  
Lahore



Muhammad Khan  
Lahore



Abdul Rauf Jauja  
Multan/Faisalabad



Dil Ara Abbas Bakhtari  
Lahore



Muhammad Rauf  
Rawalpindi



Raazia Tasaddiq  
Lahore

## Congress Organization Committee

1. Prof. Dr. Syed Shahid Ali



2. Prof. Dr. Javed Iqbal Qazi



3. Dr. Abdul Rehman



4. Dr. Zulfiqar Ali Saqib



## **2. AIMS, OBJECTIVES AND BYE-LAWS OF THE SOCIETY**

### **2.1. Aims and Objectives**

The main objective of the Society is to promote the Science of Zoology in all its branches, both pure and applied research. The mission covers the efforts of its fellows in the advancement of scientific subject knowledge, through education and research as under:

- To publish Pakistan Journal of Zoology and its Supplement Series, Proceedings of the Annual Pakistan Congress of Zoology (International), Monographs, Books and other subject publications;
- To award medals, mementos, prizes, and certificates of appreciations to Zoologists for i) Life-time contribution in the subject of Zoology and allied sister sciences, ii) for significant research and academic contribution, and to, iii) University Graduate position holder students of Zoology.

### **2.2 Bye-Laws**

Bye-laws are the rules and regulations meant for day to day management of affairs and activities of the Society. The Bye-laws were framed by an adhoc Governing Body of this Society during 1969. Thereafter, in case of the urgency or requirement, these have been amended from time to time, with the consent of the Executive Council and approval of the General Body.

The Bye-laws of the Society, laid down procedures for obtaining membership of the Society, election of the members of the Society's Executive Council, EC meetings, delegation of administrative and financial powers to the Executive Council and Office Bearers of the Society, publication of Pakistan Journal of Zoology and its Editor-In-Chief and Editorial Board

### **3. MEMBERSHIP OF THE SOCIETY**

The membership of the Society comprises of five categories: (i) Founding Fellows, (ii) Fellows, (iii) Life-Fellows, (iv) Honorary Fellows, and (V) Members.

#### **3.1 Founding Fellows**

The Founding Fellows were those Zoologists who applied as Fellows of the Society prior to enforcement of its Bye-laws and Registration of the Society. At that time, 54 eminent zoologists/biologists were incorporated as Founder Fellows of the Society (Annexure VI).

#### **3.2 Fellows**

The Fellows of the Society are Pakistani Zoological Scientists eminent for their original contribution to the existing knowledge on zoology and are elected by the Executive Council according to the procedure laid down in the Bye-laws. The total number of registered Fellows during the 50 years (1962-2018) were 317 They are generally referred as active Fellows. Because they pay annual dues to Society, regularly and without any break. They enjoy the right to vote during election of E.C. and Office Bearers of the Society. There is no bar on the foreign Zoologists to become Fellows of the Society.

#### **3.3 Life-Fellows**

Any person who qualifies to be elected as Fellow and has contributed significantly to the field of Zoology and has attained or crossed the age of 60 years, can, on a lump sum payment of prescribed dues, become a Life Fellow of the Society. The total number of Life-Fellows, so far, registered are 274.

#### **3.4 Honorary Fellows**

Any person may be conferred the Honorary Fellowship of the Society in recognition of his/her long and distinguished services in the field of Zoology or any branch of biological sciences. The EC on a proposal by two EC members or six Fellows submitted in writing to the Secretary General of the Society, shall elect an Honorary Fellow by a 2/3rds majority vote. This elected Fellow is exempted from payment of dues and shall enjoy all the privileges of a Fellow.

### **3.5 Members**

Any person or a university student interested in any aspect of Zoology, is eligible for membership of the Society on the recommendation of a Fellow. On the occasion of Annual Pakistan Congress of Zoology (PCZ), University/ College students registered participation is considered the membership of the Society for one year, and thereafter, he/she can become the fellow of the Society, following the specific Bye-laws, by payment of dues for the prescribed year.

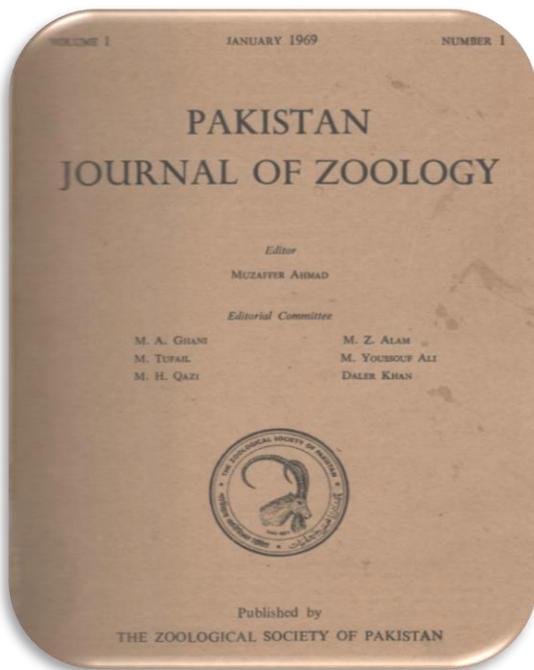
## **4. ACTIVITIES AND ACHIEVEMENTS OF ZSP**

In this booklet, fifty years (1968-2018) of milestone activities and achievements of the Zoological Society of Pakistan (ZSP) have been assessed and quantified. For many years after its establishment, the main activity of the Society was focussed on bringing out a research journal, Pakistan Journal of Zoology, organizing annual Congress of Zoology and publication of its proceedings, Proceedings of Pakistan Congress of Zoology.

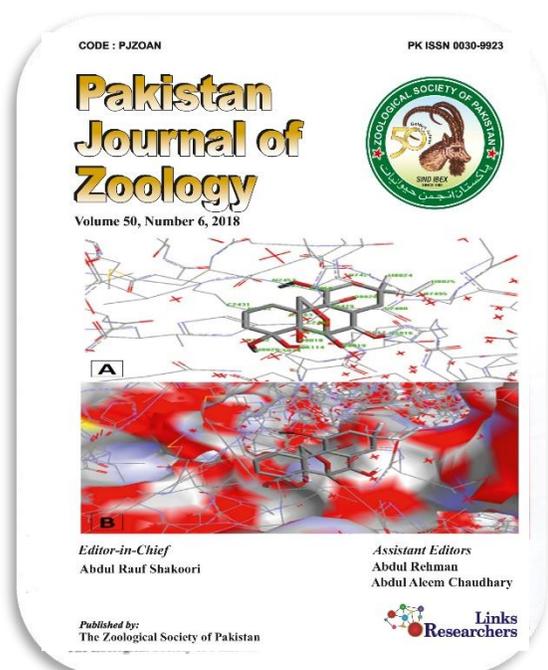
### **4.1 Pakistan Journal of Zoology (PJZ)**

The aims and objectives of PJZ is to disseminate scientific data generated in different disciplines of Zoological Sciences and provide an outlet to Zoologists/Biologists for their scientific discoveries. The first few issues of the journal were published with the humble financial contributions from the Founder Fellows. Prior to the publication of PJZ, the results of the research done by the country zoologists normally appeared in local multidisciplinary science journals or published in foreign journals.

The first issue of the PJZ was published in June 1969 (Fig. 4). At that time, it was biannual publication till 1984. Since 1985, four issues, annually, were published and continued till 2004. From 2005 onwards, it is being published as six issues per volume/year (Fig. 5). The fifty volumes (198 issues) of the journal have been published on time and without any break. These fifty volumes contain 4347 articles covering about 30,713 printed pages (Table 5). During this period, the contribution of foreign authorships from China, Turkey, Iran, Egypt and Saudi Arabia increased tremendously. The Pakistani, foreign and combined authorship contribution was 74%, 20% and 6%, respectively, indicating the predominance of local authors. As a result of this preliminary analysis of the article contributions to PJZ, it can be concluded that the number of publications per year increased (Fig. 6).



**Fig. 4.** Title cover of Pakistan Journal of Zoology Volume I, Number 1, 1969

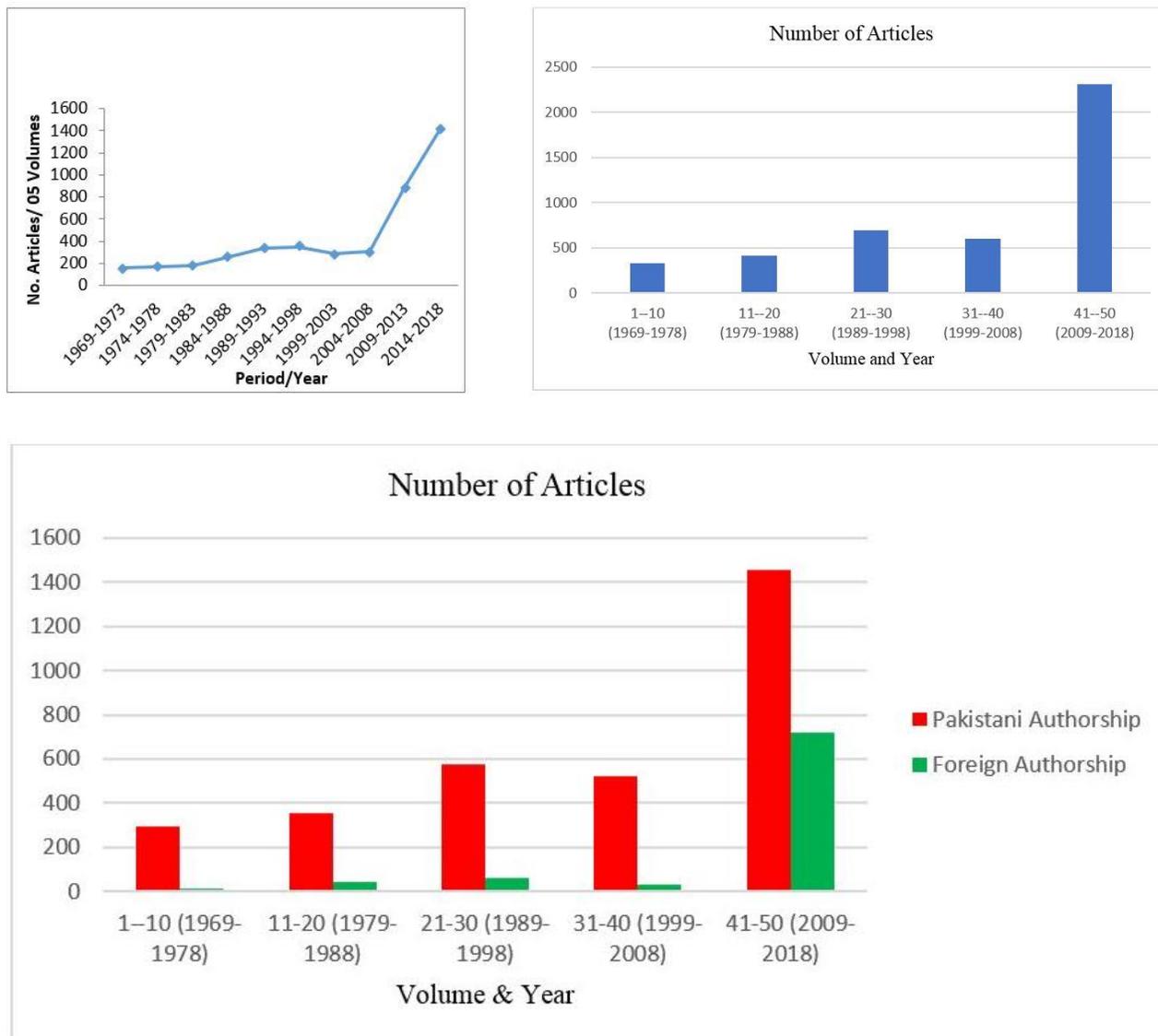


**Fig. 5.** Title cover of Pakistan Journal of Zoology Volume 50, Number 6, 2018

**Table 5. Numbers of Research Articles and Authors who have contributed in PJZ during 1969-2018**

<b>Volume &amp; Years</b>	<b>No. of Articles</b>	<b>Total Pages</b>	<b>Pakistani Authorship</b>	<b>Foreign Authorship</b>	<b>Combined Authorship</b>
1-10 (1969-1978)	331	2,365	296 (89%)	13 (4%)	22 (7%)
11-20 (1979-1988)	417	3,192	355 (85%)	45 (11%)	17 (4%)
21-30 (1989-1998)	690	4,999	575 (83%)	59 (9%)	56 (8%)
31-40 (1999-2008)	599	7,309	520 (87%)	30 (5%)	49 (8%)
41-50 (2009-2018)	2,310	16,448	1,455 (63%)	720 (31%)	135 (6%)
<b>Total of 50 years</b>	<b>4,347</b>	<b>30,713</b>	<b>3,201 (74%)</b>	<b>867 (20%)</b>	<b>279 (6%)</b>

According to a study conducted by Pakistan Council of Science and Technology on “Some Aspects of Quantitative Characteristics of Selected Pakistani Science Journals” for the period 1981-1990 (Proc. Pakistan Acad. Sci., 31(3):175-186, 1994) more papers have been published in PJZ than any other monodisciplinary journal devoted to biological sciences. Also, more foreign authors have contributed to PJZ than any other Biology journal of Pakistan.



**Fig. 6** Top: Number of research articles published during 1969-2018.

Bottom: The figure also shows the number of local (red bar) and foreign authors (green bar) who contributed in these research articles.

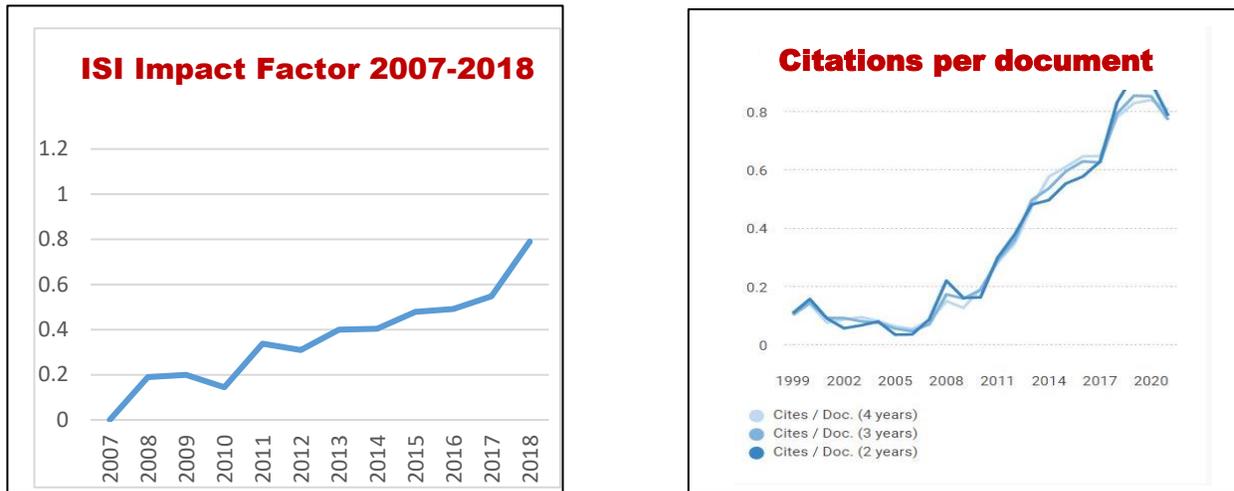
The PJZ publishes original research articles in English on all aspects of animal life. In general, these articles are on, or related to one of these subject areas: Physiology, Cell and Molecular Biology, Genetics, Toxicology, Bio-informatics, Developmental Biology, Entomology, Pest Control, Parasitology, Microbiology, Biotechnology, Molecular aspects of Human and Animal Diseases,

Pathology, Palaeontology, Taxonomy, Environmental Biology, Wildlife, Fisheries, Vertebrate and Invertebrate Biology, Biodiversity. Short Communications are also published. First records/reports and description of known species, case reports/studies and survey reports are NOT published in PJZ. Invited review articles are also published.

Since 2016, submission of manuscripts to PJZ is online. The Society has signed a contract first with Smith and Franklin (S and F) Academic Publishing Corporation, UK, and later with Researchers Links, UK as Manuscript Handler<sup>®</sup>. For all manuscripts submitted, Researchers Links performs plagiarism detection, reference check and misinformation as essential benchmarks for quality control. PJZ is duly recognized scientific journal by the Higher Education Commission of Pakistan (HEC), Pakistan Science Foundation (PSF), Pakistan Council of Science and Technology (PCS&T). It is an ISI Impact Factor publication (Table 6, Fig. 7).

**Table-6. Impact Factor Values of PJZ.**

Year	Volume	Number of Issues	HEC ranking	ISI Impact factor
2007	39	1,2,3,4,5,6	W	0.105
2008	40	1,2,3,4,5,6	W	0.189
2009	41	1,2,3,4,5,6	W	0.200
2010	42	1,2,3,4,5,6	W	0.145
2011	43	1,2,3,4,5,6	W	0.338
2012	44	1,2,3,4,5,6	W	0.309
2013	45	1,2,3,4,5,6	W	0.400
2014	46	1,2,3,4,5,6	W	0.404
2015	47	1,2,3,4,5,6	W	0.478
2016	48	1,2,3,4,5,6	W	0.491
2017	49	1,2,3,4,5,6	W	0.547
2018	50	1,2,3,4,5,6	W	0.790



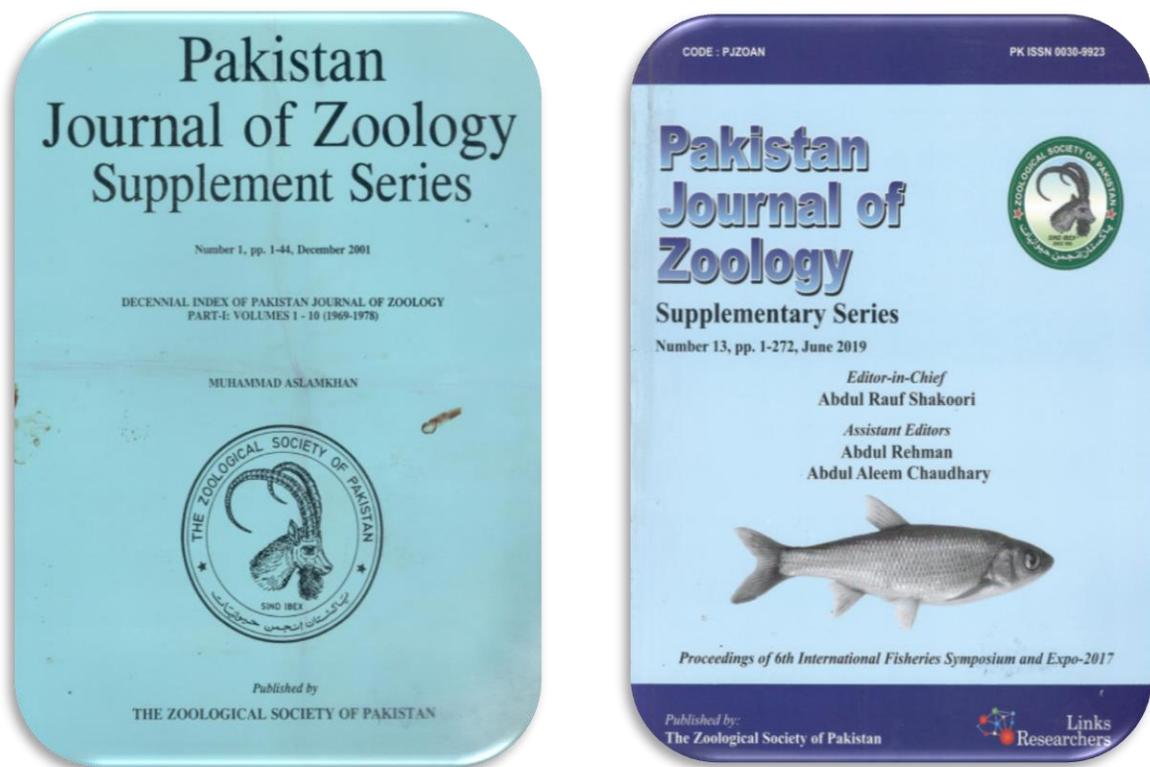
**Fig. 7.** Trend in change of Impact Factor (Left) and the Citation per document (Right) published in PJZ during 2007-2018

The PJZ has a wide circulation within and outside Pakistan. The journal is abstracted / indexed by most of the leading Abstracting Services of the world, like Biological Abstracts, Chemical Abstracts, Current Contents, Zoological Records, Information Retrieval Limited; London, Services Centrale de Documentation de L'ORSTOM, Paris, Cambridge Scientific Abstracts, ISI, National Inquiry Services Centre; South Africa, Elsevier BV, EBSCO host™, ProQuest Content.

The Journal is sent on subscription or in exchange to different Libraries, Universities, Educational and Research Institutions in 72 Institutions in 60 countries (Annexure VII).

#### 4.2 Supplementary Series of PJZ

The Society also publishes a supplementary series of Pakistan Journal of Zoology to accommodate lengthy articles like Memoirs, Checklists, Catalogues, etc. which cannot be included into the regular issues of a volume (Fig. 8). In general, contribution to these series is made by senior zoologists. During these fifty years, 13 such supplements to PJZ have been published (Table 7).



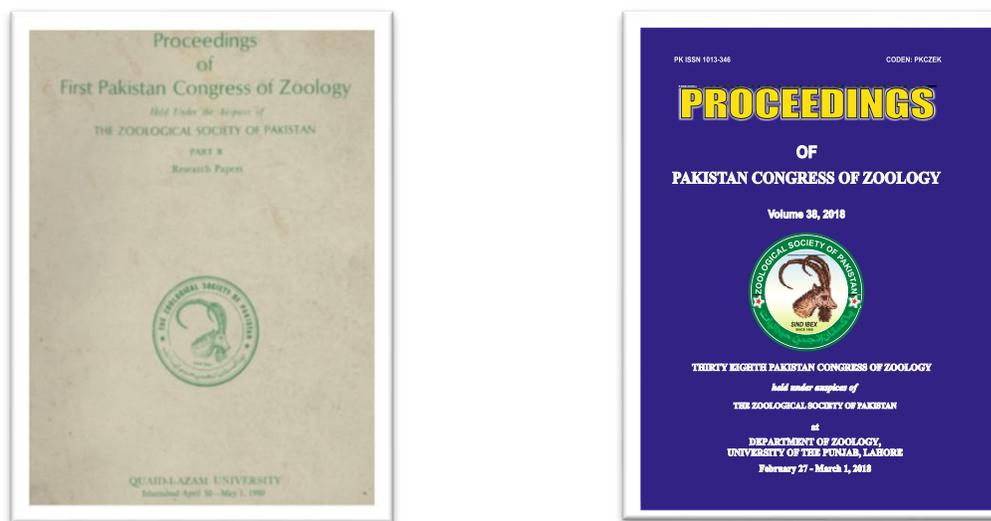
**Fig. 8.** Images of the title covers of Pakistan Journal of Zoology Supplementary Series 2001 No.1 (left side) Supplementary Series 2019 No.23 (right side)

**Table-7. List of Supplementary Series of Pakistan Journal of Zoology**

No	Title	Pages	Year of Publication
1	Decennial index of Pakistan Journal of Zoology, part-1, Volume 1-10 (1969-1978) Compiled by by M. Aslam Khan	1-44	2001
2	Catalogue of Termites (Isoptera) of the Oriental Region Written by Muzaffar Ahmed and Saeed Akhtar	1-86	2002
3	Checklist of Freshwater Fishes of Pakistan, By Muhammad Ramzan Mirza.	1-30	2003
4	Checklist and Key to the Amphibia, Chelonia and Crcodylia of Pakistan by Muhammad Sharif Khan.	1-14	2004
5	Checklist and Key to the Lizards of Pakistan, By Muhammad Sharif Khan	1-25	2004
6	Checklist and Key to the Snakes of Pakistan, By Muhammad Sharif Khan	1-24	2004
7	Revision of sub-family Dacinae (Fruitflies) (Tephritidae: Diptera) of South-East Asia By Khalid Mahmood and S.A. Hassan	1-65	2005
8	Chromium as an environmental contaminant – A review By Muhammad Mashhood Ahsan and Abdul Rauf Shakoori	1-30	2006
9	Proceedings of the 6 <sup>th</sup> Asian Buffalo Congress, October 27-30, 2009 Edited by Abdul Rauf Shakoori	1-569 (Part I)	2009
10	Proceedings of the 6 <sup>th</sup> Asian Buffalo Congress, October 27-30, 2009 Edited by Abdul Rauf Shakoori	571-926 (Part II)	2009
11	The late Miocene Artidactyls in the Dhok Pathan type locality of the Dhok Pathan Formation, the Middle Siwaliks, Pakistan. By Muhammad Akbar Khan, Muhammad Akhtar and Mahboob Iqbal	1-87	2010
12	Some New Remains of Middle Miocene Mammals from the Chinji Formation, Northern Pakistan By Muhammad Akbar Khan, Muhammad Akhtar and Mahboob Iqbal	1-55	2013
13	Proceedings of the 6 <sup>th</sup> International Fisheries Symposium and Expo-2017. Edited by Abdul Rauf Shakoori	1-272	2019

### 4.3. Proceedings of Pakistan Congress of Zoology

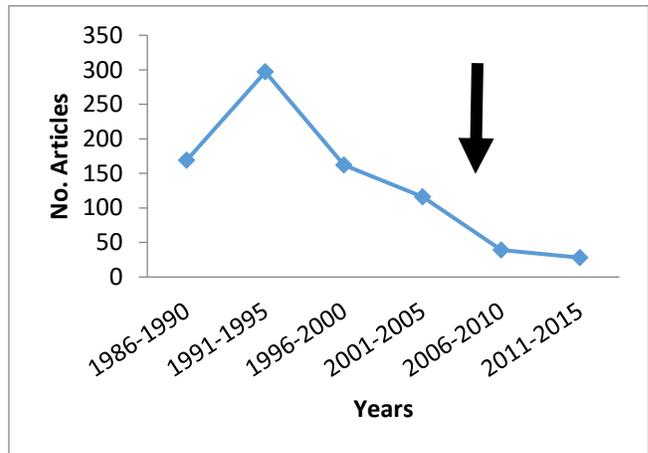
In addition to the publication of Pakistan Journal of Zoology and its Supplement Series, the Society publishes the “Proceedings of the Pakistan Congress of Zoology” regularly every year. It is widely circulated inside and outside the country. So far 38 volumes have been published containing peer reviewed articles (Fig. 9). A total of 811 articles have been published in 38 volumes, with a total page stock of 6092. During the years of 1986-95, the paper submission by presenters increased. However, in later years it decreased rapidly because of non- recognition of the Proceedings by HEC (Fig. 10).



**Fig. 9.** Images of the title covers of Proceedings of Pakistan Congress of Zoology Volume 1, year 1980 (left) and Volume 38, year 2018 (right)

Posters presented during the conference are also published as part of the Proceedings. Abstracts for presentation in poster session are grouped by topics and published in the abstract book. On the last day of the Congress, the posters are evaluated by a team of three senior Zoologists. The authors are allowed to present the results/ findings of the research conducted to the team members. After their evaluation, three posters are adjudged as first, second and third best posters. The Zoological Society on its own initiated poster competition in 2001, and the authors of the posters are honoured with Certificates of Appreciation along with a small amount of cash. From 2018 onwards, the Poster Competition Certificates are sponsored by Biological Resource Centre, Islamabad.

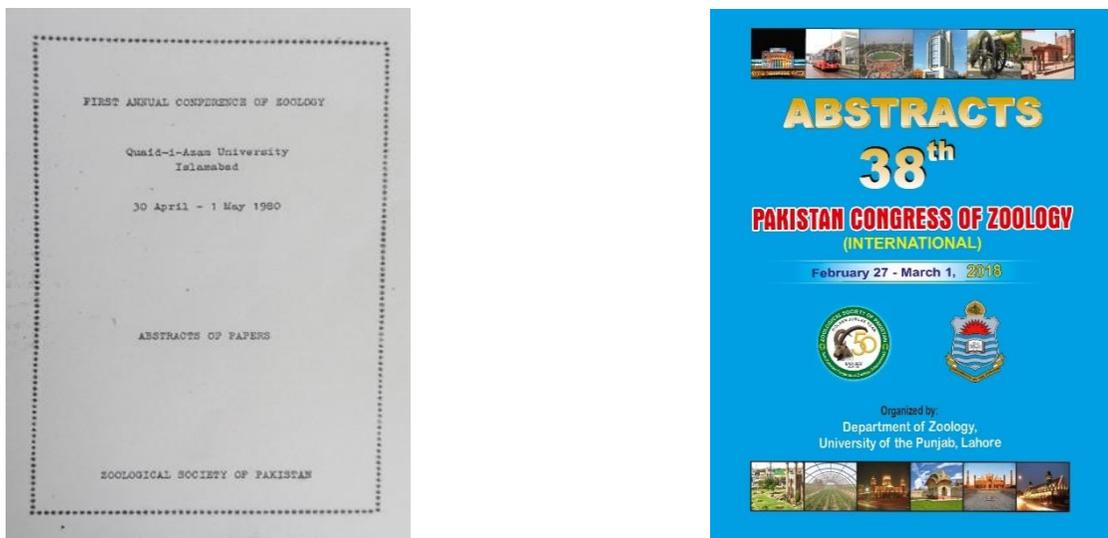
The articles published in the Proceedings are peer reviewed. The Proceedings is abstracted and indexed in Biological Sciences, Chemical Abstracts, Centrale de Documentation de l'ORSTOM, Paris, Cambridge Scientific Abstracts, Institute of Scientific Information, Moscow, etc. It is also listed in the Index to Scientific and Technical Proceedings and ISI/ISTP and Online Data Base of Institute for Scientific Information, Philadelphia, Pennsylvania, USA.



**Fig. 10.** Peer reviewed articles published in Proceedings of Pakistan Congress of Zoology. Arrow shows the year HEC removed it from the list of journals

#### 4.4. Abstract Books of Conferences

Before holding the annual Pakistan Congress of Zoology, abstracts of papers received from presenters are sub-classified and printed together in the shape of a book, which are distributed among the registered participants of the Congress (Fig. 11). Along with this, programmes of different sessions are handed over to registered participants (Fig. 12).



**Fig. 11.** Images of the title covers of The Abstract Books of the First Annual Conference of Zoology 1980 (left) and 38<sup>th</sup> Pakistan Congress of Zoology 2018 (right)

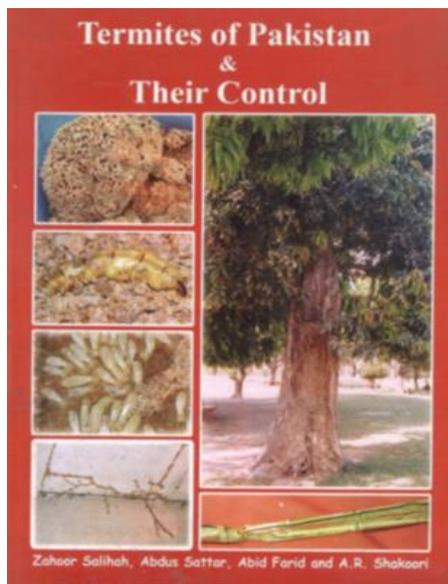
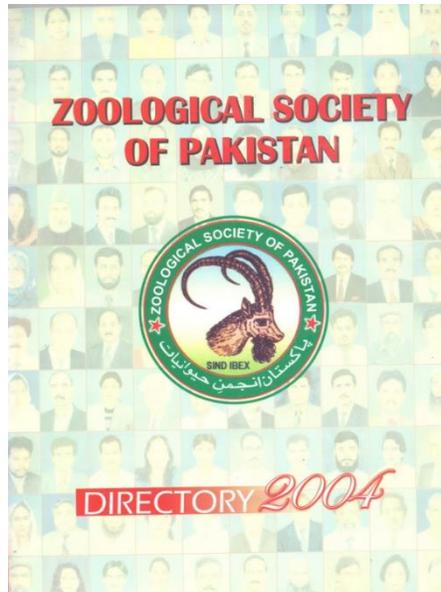


**Fig. 12.** Images of the title covers of the Programmes of First Pakistan Congress of Zoology 1980 (left) and 38th Pakistan Congress of Zoology 2018

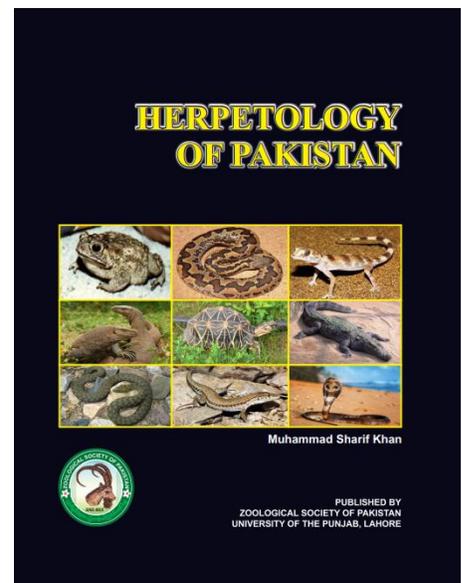
#### 4.5. Publication of Books

ZSP has taken a very serious initiative of publishing reference books on zoological sciences. So far, two books as below have been published and are available to fellows and general public on payment.

1. Directory 2004. Zoological Society of Pakistan.
2. Salih, Z., Sattar, A., Farid, A. and Shakoori, A.R. 2012. *Termites of Pakistan and Their Control* pp. 102 (Fig. 13).
3. Khan, M.S., 2021. *Herpetology of Pakistan*. pp. 244 (Edited by A. R. Shakoori) (Fig. 14).
4. Kazmi, Q.B., *Marine Faunal Biodiversity-Inventory Taxonomic Resources of Pakistan* (Edited by A.R. Shakoori) (under preparation)



**Fig. 13.** Image of the title cover of *Termites of Pakistan and their control*.



**Fig. 14.** Image of the title cover of *Herpetology of Pakistan*

## **5. CONFERENCES, SYMPOSIA AND SEMINARS ORGANIZED BY THE SOCIETY**

### **5.1 Pakistan Congress of Zoology**

Prior to 1980, the results of the research done by the Pakistani Zoologists/Biologists used to be normally presented in the Science Conferences. These conferences, because of multidisciplinary in nature, did not offer adequate opportunity to zoologists of proper presentation of their research results and topical discussion. The senior zoologists, therefore, decided to have a separate conference for zoological sciences.

Keeping in view the above, some of the eminent Zoologists who were attending the Annual Conference of the Pakistan Association for the Advancement of Science at Lahore in December 1979 decided to organize annual Conference under the title of Pakistan Congress of Zoology. A committee under the Chairmanship of Prof. Dr. Ahmed Mohiuddin was constituted to work out the administrative and financial details of the proposed Congress. The Committee held its first meeting in the Department of Zoology, University of the Punjab, New Campus, in December 1979 and decided to organize the first Pakistan Congress of Zoology in May 1980. Prof. Dr. Ahmed Mohiuddin, who at that time was the Vice Chancellor of the Quaid-e-Azam University, offered to host the Congress. The first Congress was held on 30<sup>th</sup> April to 01 May, 1980 at the Quaid-e-Azam University Campus, Islamabad. It was a great success. A large number of Zoologists from all over the country participated in the Congress and presented 53 research papers and 7 review articles. The proceedings of this Congress were published in two volumes, the first volume contained review articles and the second one research papers. The second congress was hosted by Sindh Agricultural University, Tandojam (Fig. 16), while the third Congress was hosted by University of Agricultural Faisalabad (Fig. 17)

The second regular and matchless activity of the Society has been to organize and conduct “Pakistan Congress of Zoology (Int.l)” at different university campuses and research institutions. Since 1980, the Pakistan Congress of Zoology has been held regularly. Thirty-eight (1980-2018) such conferences have been organized by the Society and hosted by different universities and research organizations (Table 8).



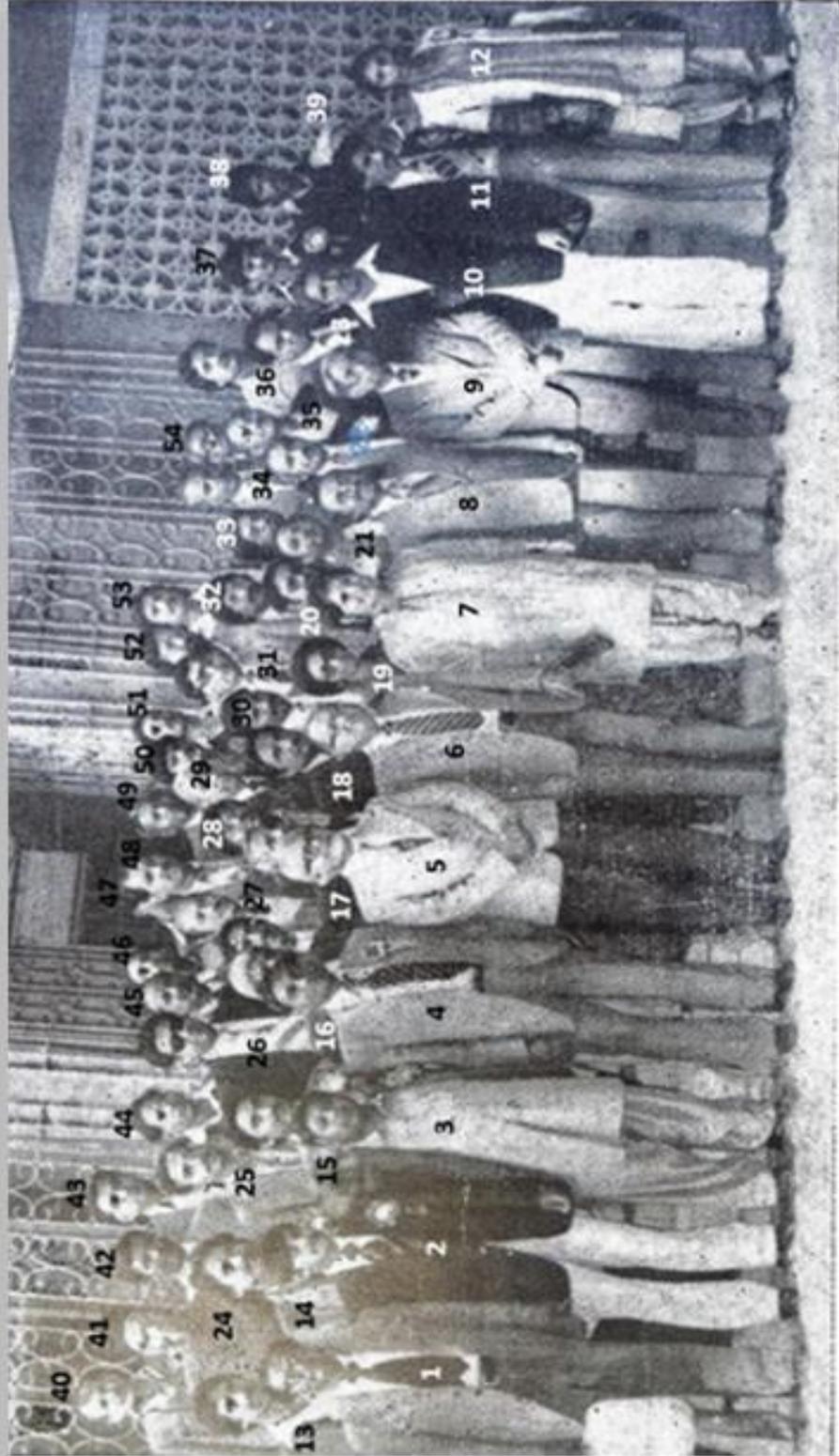
# Quaid-i-Azam University, Islamabad First Congress of Zoology

*Held on April 30– May 1, 1980*

4. Rehana Habib 5. Khadija Kazmi 6. Muhammad Abdul Hafeez 7. Abu Bakr 8. Agha Ikram Mohyuddin 9. M. Aslam Khan 10. Abdul Qadir Ansari 11. Ahmed Mohiuddin 12. Nasima Tirmizi 13. Din Muhammad Sheikh 14. Muzaffer Ahmad 15. Syed Ishfaq Hussain 16. Muhammad Arslan 17. Salma Durrani 25. Imtiaz Ahmed 27. Daler Khan 28. Ch. Mohammad Ismail 29. Muhammad Riaz Pal 30. G.M. Baloch 31. Zahid Beg Mirza 39. Abdul Hameed Jan 41. Riaz Khalid Siddiqui 42. Riaz Mahmood 43. Suleman Hamid 44. Abdul Ghaffar 45. Fayyaz Ahmad 47. Shafiq 48. M. Maqbool Ahmad 53. Ghulam Ayaz Jan 56. Riaz Mahmood 57. Muhammad Ashfaq 58. Qazi Javed Iqbal 59. Abdul Rasheed Cheema 60. Khalid Perwaiz Lone 61. Abdul Majeed Cheema 65. Zafaryab 66. Azra Khanum 68. Shaheen 69. Rashid 71. Muhammad Nasim Siddiqui 72. Masood Anwar Qureshi 75. Muhammad Afzal 76. Manzoor Ahmad 77. Abdul Aziz Khan

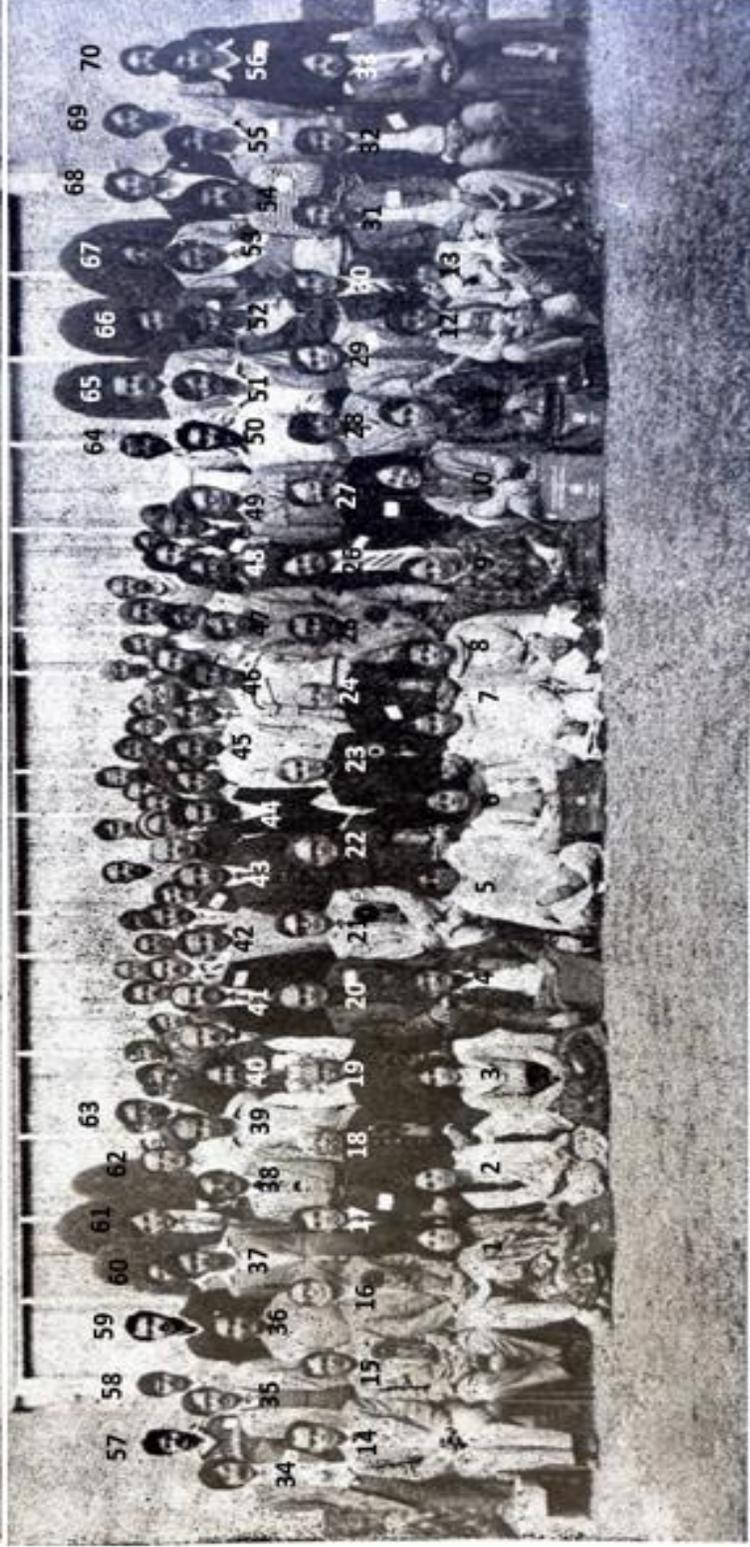


2. Javed-Iqbal-3. Muhammad-Naseem-Siddiqui-4. Imtiaz-Ahmad-5. Hamid-Mahmood-6. Ahmed-Mohiuddin-7. Mrs. A.Q. Ansari-8. Abdul-Qadir-Ansari-9. Muzaffar-Ahmad-10. Syed-Ashfaq-Hussain-12. Azra-Khanum-14. Abdul-Rauf-Shakoori-15. Shahid-Ali-16. Muhammad-Irshad-17. Manzoor-Ahmad-18. Shahid-19. Azra-Khanum-20. Muhammad-Saeed-Akhtar-21. Muhammad-Sarwar-22. Rizal-Khalid-Siddiqui-23. Abdul-Ghaffar-24. Mohammad-Shahid-26. Delegate-from-Wildlife-Department-27. Syed-Shamim-Ahmad-28. Muhammad-Maqbool-Ahmad-30. Abdul-Rauf-Malik-31. Agha-Kram-Mohiuddin-32. Khalid-Perwalz-Lone-33. Abdul-Majeed-Cheema-35. G.M. Baloch-42. Muhammad-Ali-Shah-43



Members of Second Pakistan Congress of Zoology, 1981

14. Abdul Ghaffar 15. Azhar Beg Mirza 17. Altaf Hussain 18. Ch. M. Abdullah Asghar 20. Daler Khan  
 21. Agha Ikram Mohyuddin 22. Mian Mumtaz Ali 23. Admiral Fazal Janjua 24. Ahmed Mohiuddin  
 25. Imtiaz Ahmed 26. Abdul Rauf Shakoori 27. Ahmed Nadeem Sheri 28. Muhammad Maqbool Ahmad  
 29. Muhammad Sa rwar 30. Muhammad Arslan 31. Muhammad Irshad 32. Iqbal Arif 33. Abdul Majeed  
 Cheema 34. Furrukh Jalal 35. Riaz Mahmood 36. Abdul Aziz Khan 38. Muhammad Rafiq Khan  
 39. Muhammad Yunus 40. Abdul Rehman 42. Abdul Rauf Malik 43. Shahid 49. Mushtaq Ahmad Saleem  
 62. Muhammad Ashfaq Rana



Group photograph of the Members of the Third Pakistan Congress of Zoology, 1982.

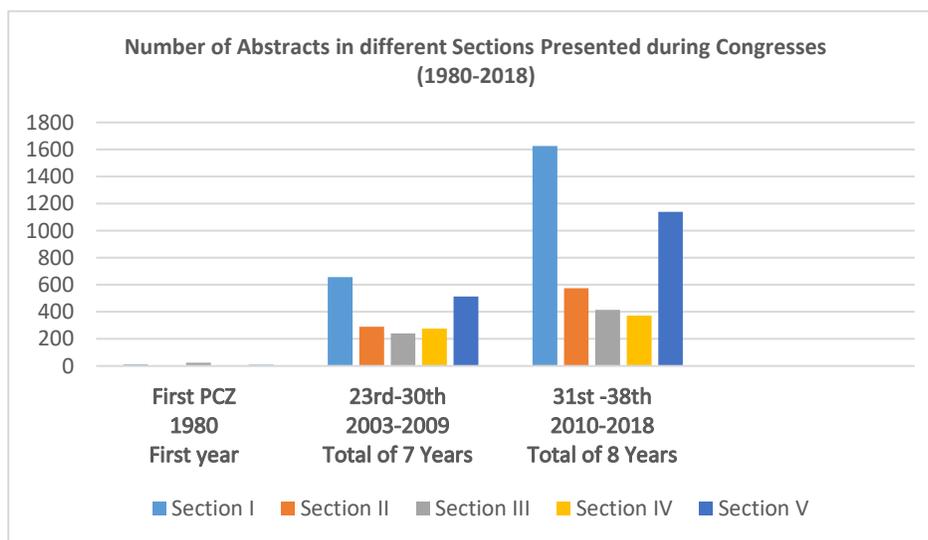
**Table 8. List of Pakistan Congresses of Zoology hosted by different Educational Institutions during 1980-2018**

No.	Year	Venue
1	1980	Quaid-e-Azam University, Islamabad
2	1981	Sindh Agriculture University, Tandojam
3	1982	University of Agriculture, Faisalabad
4	1983	University of Peshawar, Peshawar
5	1984	University of Karachi, Karachi
6	1985	University of the Punjab, Lahore
7	1986	University of Balochistan, Quetta
8	1987	University of Peshawar, Peshawar
9	1988	National Agriculture Research Center/PARC, Islamabad
10	1989	University of the Punjab, Khanspur Campus, Ayubia, Murree
11	1990	University of the Punjab, Khanspur Campus, Ayubia, Murree
12	1991	Government College, Lahore
13	1992	University Grant Commission, Islamabad
14	1993	University of Karachi, Karachi
15	1994	National Agriculture Research Center /PARC, Islamabad
16	1995	Quaid-e-Azam University, Islamabad
17	1996	University of Karachi, Karachi
18	1997	University of the Punjab, Lahore
19	1998	National Agriculture Research Center /PARC, Islamabad
20	1999	University of Sindh, Jamshoro
21	2000	University of Agriculture, Faisalabad
22	2001	Azad Jammu and Kashmir University, Muzaffarabad
23	2003	University of Arid Agriculture, Rawalpindi
24	2004	Allama Iqbal Open University, Islamabad
25	2005	Sindh Agriculture University, Tandojam
26	2006	University of the Punjab, Lahore
27	2007	Bahauddin Zakariya University, Multan
28	2008	Government College University, Faisalabad
29	2009	University of Sindh, Jamshoro
30	2010	University of Agriculture, Faisalabad
31	2011	Azad Jammu and Kashmir University, Muzaffarabad
32	2012	Government College University, Lahore
33	2013	Pakistan Museum of Natural History (PSF) and PMAS-Arid Agriculture University, Rawalpindi
34	2014	Bahauddin Zakariya University, Multan
35	2015	University of Karachi, Karachi
36	2016	University of Sindh, Jamshoro
37	2017	Government College University, Faisalabad
38	2018	University of the Punjab, Lahore

The number of approved abstracts of paper presentations has increased from 48 (1980) to 721 (2018), showing tremendous participation of scientists and research students of in the area of Zoological and allied sciences (Table 9). Also, the teaching and research in the discipline of Cell and Molecular biology, Physiology, Biochemistry and Toxicology have increased appreciably in the universities of Pakistan, followed by Fisheries, Ecology and Wildlife. During these conferences, a total of 172 plenary lectures were delivered by the senior zoologists of Pakistan and foreign university scientists (Annexure VIII).

**Table 9. Contents of Approved Abstracts of Papers Presented during Congresses (2003-2018)**

No. PCZ/ Years	Section I Cell biology, Genetics, Molecular biology, Physiology, Biochemistry, Toxicology	Section II Pests and Pest Control	Section III Entomology	Section IV Parasitology	Section V Fisheries, Freshwater Biology, Ecology, Wildlife , Marine Biology, Palaeontology	Total
<b>First PCZ 1980 First year</b>	9	1	25	6	7	48
<b>23<sup>rd</sup>-30<sup>th</sup> 2003-2009 Total of 7 Years</b>	657	291	241	276	513	1,980
<b>31<sup>st</sup> -38<sup>th</sup> 2010-2018 Total of 8 Years</b>	1,627	575	415	372	1,138	4,127
<b>2018</b>	281	83	80	48	229	721



## 5.2 Symposia

Also, 10 symposia on topics of important economic zoology were organized in which eminent and senior zoologists participated (Table10). Participation of zoologists by Posters was encouraged. Initially one or two dozen posters were presented, which increased to 70 posters during the 38<sup>th</sup> Conference (2018).

**Table 10. List of Topical Symposia Organized by Pakistan Congress of Zoology during 1985-1998.**

No. of PCZ (year)	Topic of Symposium	Participant Speakers
6 <sup>th</sup> (1985)	1. Resources and Development of Fisheries in Pakistan	Dr. S.H.I. Jafri, Dr. M.Y. Javaid, Javed Butt, Masood Burney and Dr. Amir Muhammad
7 <sup>th</sup> (1986)	2. Wildlife of Pakistan	Dr. Abdul Aleem, Mr. Afsar Mian, Khan Mohammad Khan and Dr. A.Q. Ansari
8 <sup>th</sup> (1987)	3. Status of Zoological Research and Teaching in Pakistan	Dr. Nasim Siddiqui, Dr. Manzoor Ahmed, Dr. Abdul Majeed Cheema, Dr. Hamid Mahmmod and Dr. A.Q. Ansari
9 <sup>th</sup> (1988)	5. Animal Resources of Pakistan: Problems and Prospects	Dr.A.S. Akhtar, Dr. Din M. Shaikh, Dr. Abdul Majeed Cheema, Mr. M. Ismail Choudhry and Dr. A.Q. Ansari
14 <sup>th</sup> (1993)	5. Status of Teaching of Zoology at the Undergraduate Level	Mr. Salim Razmi, Mrs. Meher Shah and Dr. A.R. Shakoori
15 <sup>th</sup> (1994)	6. Status of Teaching of Zoology at the B.Sc Level	Dr. Hamid Mahmmod, Dr. M. Suleman, Qazi Javed Iqbal and Dr. Muzaffar Ahmad
16 <sup>th</sup> (1995)	7. State of Science in Pakistan: Past, Present and its Future	Dr. C.M. Anwar, Dr. M.H. Qazi, Dr. Anwar Nasim and Dr Khalid Mahmood
17 <sup>th</sup> (1996)	8. Status of Marine Pollution in Pakistan	Dr. Sardar Alam Siddiqui, Dr Imtiaz Ahmad, Dr Shahid Amjad and Dr. Khalid Mahmood
18 <sup>th</sup> (1997)	9. Prospects of Human Cloning: Scientific and Ethical Issues	Dr. Anwar Nasim, Dr Shahzad A. Mufti, Dr. A.R. Shakoori and Dr. A.Q. Ansari
19 <sup>th</sup> (1998)	10. Ethical Issues in Biomedical Research	Dr. Imtiaz Ahmad, Dr. M. Afzal, Dr. Azhar Baig, Dr Anwar Nasim and Dr. Khalid Mahmood Khan

## 6. GOLD MEDALS, AWARDS AND APPRECIATION CERTIFICATES

The most fascinating and glorious part of the proceedings of Pakistan Congress of Zoology (Intl.) has been the presentation of Gold medals, Awards and Appreciation certificates to senior zoologists, mid-career scientists and university position holder students of zoology and biology. Thus, the Society accords recognition to zoologists and biologists at various working levels and encourages them to participate in the socio-economic development programmes of the country (Table 11).

**Table-11. List of Awards and Gold Medals Conferred by the Society during 1996-2018.**

Sr. No.	Name of the Award/Medal (Eligibility criteria)	Discipline(s)	Year(s) given	Total No. of awards given
<b>A</b>	<b>Awards and Gold Medals for Researchers</b>			
1.	Life time achievement Award (60 years and Above)	Lifetime Contributions in Zoology and Allied Sciences.	2003-2018	25
2.	Zoologist of the Year Award (Below 60 years)	Significant scientific and academic contributions in Zoology	1996-2018	27
3.	Prof. A.R. Shakoori Gold Medal (Upto 45 years and at least 20 original research papers)	Biological Sciences	2001-2018	16
4.	Prof. Mirza Azhar Beg Gold Medal (Upto 45 years, - at least 20 original research papers)	Ecology, Wildlife, Taxonomy, Fisheries, Vertebrate Pest Management	2001-2018	16
5.	Prof. Nasima M. Tirmizi Gold Medal (Upto 45 years and at least 20 original research papers)	Marine Sciences	2004-2018	8
6.	Prof. Imtiaz Ahmad Gold Medal (Upto 45 years- at least 20 original research papers)	Entomological Sciences	2014-2018	4
7.	Dr. Abdul Aleem Chaudhry Gold Medal (Up to 45 years, - at least 20 original research papers)	Wildlife Management and Wildlife Conservation	2018	Nil

<b>B Gold Medals for University Students (obtaining First Position in the Final Examination in the University)</b>				
1.	Mujib Memorial Gold Medal	M. Sc. Zoology with specialization in Parasitology (University of Karachi)	1994-2018	23
2.	Muzaffar Ahmad Gold Medal	M. Sc. Zoology (University of the Punjab)	1994-2018	24
3.	Dr. C.M. Anwar Khan Gold Medal (Discontinued in 2002)	M. Sc. Zoology with specialization in Molecular Biology (University of the Punjab)	1996-2002	7
4.	Muhammad Afzal Hussaain Qadri Memorial Gold Medal	M. Sc. Zoology (University of Karachi)	1998-2018	20
5.	M. A. H. Qadri Memorial Gold Medal-II	Ph. D. Zoology in Parasitology (University of Karachi)	2001-2018	15
6.	Prof. Imtiaz Ahmed Gold Medal (Discontinued in 2012)	M. Sc. Zoology with Specialization in Entomology (University of Karachi)	2001-2011	11
7.	Prof. Dr. S.N.H. Naqvi Gold Medal	Ph. D. Zoology with Specialization in Toxicology. (University of Karachi)	2005-2018	12
8.	Ahmed Mohiuddin Memorial Gold Medal	M. Sc. Zoology (University of Sindh, Jamshoro)	2006-2018	14
9.	Afsar Mian Gold Medal	M. Sc. Zoology /Bioilogy (PMAS- Arid Agricultural University Rawalpindi)	2009-2018	10
10	Prof. Dr. S.S. Akbar Memorial Gold Medal	M. Sc. Zoology with Specialization in Entomology (University of Sindh, Jamshoro)	2014-2018	4
11	Prof. Dr. Syed Iftikhar Hussain Jafri Gold Medal	M. Sc. Fisheries and Freshwater Biology (University of Sindh, Jamshoro)	2017-2018	2
12	Prof. Dr. Muhammad Ali Shah Gold Medal	M. Sc. Zoology (Government College University, Faisalabad)	2017-2018	1

### **Zoologist of the Year Award**

The Society honours its Fellows for their scientific contributions to the discipline of Zoology. The Zoologist of the Year Award is the most glorious and meritorious award. A committee comprising of three members is constituted, with the approval of Executive Council, to select an outstanding Zoologist out of the nominees. Citation of the award winning Zoologist is read before conferring the medal along with a commendation certificate and a token cash award at the time of Inaugural Ceremony of the Congress. So far, 27 zoologists have been presented with the “Zoologist of the Year Award” (Annexure IX).

### **Life Time Achievement Award**

In addition to this, the Society confers “Prof. Muzaffar Ahmad Life-time Achievement Award” to eminent and legendary zoologists of the country (Annexure X) . So far, 25 senior zoologists have been honoured with this award (Annexure X).

### **Competitive Awards**

Every year, during the inaugural session of the Annual Pakistan Congress of Zoology, 5 Gold Medals (Prof. A. R. Shakoori Gold Medal, Prof. Mirza Azhar Beg Gold Medal, Prof. Imtiaz Ahmad Gold Medal, Prof. Nasima Tirmizi Gold Medal, Dr. Abdul Aleem Chaudhary Gold Medal) are awarded on the basis of Open Competition, among the young mid-career zoologists upto the age of 45 years. So far, 44 Gold Medals (2001-2018) have been conferred on to outstanding young zoologists (Annexure XI).

### **Medals for Outstanding Graduates of Zoology**

There are 12 medals (Mujib Memorial Gold Medal, Muzaffar Ahmad Gold Medal, Dr. C. M. Anwar Khan Gold Medal, Muhammad Afzal Hussain Qadri Memorial Gold Medal, M.A.H. Qadri Memorial Gold Medal, Prof. Imtiaz Ahmed Gold Medsal, and Prof. Dr. S.N.H. Naqvi Gold Medal, Ahmed Mohiuddin Memorial Gold Medal, Afsar Mian Gold Medal, Prof. Dr. S.S. Akbar Memorial Gold Medal, Prof. Dr. Syed Iftikhar Hussain Jafri Gold Medal, Prof. Dr. Muhammad Ali Shah Gold Medal) which have been instituted by the Society for university graduate students. One hundred forty-three

position holder students of Zoology (M. Sc. & Ph.D.) of different Universities of Pakistan have received these medals along with Certificates of Appreciation (Annexure XII).

## 7. CERTIFICATES OF APPRECIATION

1. Dr. Muhammad Anwar Malik
2. Dr. Fazle Majid Khan
3. Dr. Zafar Iqbal

## 8. CIVIL AWARDS/PRESIDENTIAL AWARDS/INTERNATIONAL AWARDS

### ❖ INTERNATIONAL AWARDS

1. Economic Co-operation Organization (ECO) has awarded to **Prof. Dr. Abdul Rauf Shakoori** for Outstanding Research Contribution in the field of Science and Technology conferred by President ECO, in Baku, Azerbaijan on October 16, 2012
2. Award of Academician, Shandong Academy of Agricultural Sciences was conferred on to **Prof. Dr. Abdul Rauf Shakoori** by the President Shandong Academy of Agricultural Sciences in Jinan, Shandong in November 2019

### ❖ PRESIDENTIAL AWARD

1. Aizaz-i-Kamal was conferred on **Prof. Dr. Muzaffar Ahmad** by the President of Pakistan in March 1993.
2. Aizaz-i-Kamal was conferred on **Prof. Dr. Abdul Rauf Shakoori** by the President of Pakistan in March 1996.

### ❖ CIVIL AWARD

Sitara-i-Imtiaz was conferred on to **Prof. Dr. Muhammad Arslan** by the President of Pakistan on March 23, 1992.

Tamgh-i-Imtiaz was conferred on to **Prof. Dr. Abdul Rauf Shakoori** by the President of Pakistan on March 23, 2000.

Tamgh-i-Imtiaz was conferred on to **Prof. Dr. Muhammad Ali Shah** by the President of Pakistan on March 23, 2016.

## 9. RESEARCH PRODUCTIVITY AWARDS

Pakistan Council for Science & Technology, Government of Pakistan, launched Research Productivity Allowance in 2005 for research scientists covering most of the disciplines of scientific subjects. It was open to all researchers working in public and private universities, research institutes / Councils of the country. Based upon the productivity index of a researcher, the value of allowance was determined. Quite a number of ZSP fellows participated in this programme and procured this allowance, multiple times. Prof. Dr. A. R. Shakoori, Founder Fellow of the ZSP, procured this allowance for twelve times. 2002-2016 (Table 12).

Based upon the total productivity index of the above years, Dr. Shakoori was declared in 2013 as the top-most Scientists in Biological Sciences by Pakistan Council for Science & Technology



**Table 12** List of some ZSP fellows who procured (Competitive) PCS&T Research Productivity Allowance

S. #.	Name of Fellow	Year of Award	Department/Institute
1	Dr. S.M. H. Andrabi	2008, 2010, 2012, 2013	Animal Sciences Institute, NARC, Islamabad
2	Dr. Shamim Akhtar	2011, 2012, 2013, 2014, 2017	Department of Zoology, PMAS-Arid Agric. University, Rawalpindi
3	Dr. Bushra Allah Rakha	2012	Department of Zoology, PMAS-Arid Agric. University, Rawalpindi
4	Dr. Muhammad Sajid Ansari	2012, 2014	Lahore University of Sciences and Technology School of Biological Sciences
5	Dr. A. R. Shakoori	Twelve times every years from 2005-2016	School of Biological Sciences, Punjab University, Lahore
6	Dr. Farah Shakoori	2002, 2011, 2012	Department of Zoology Punjab University, Lahore
7	Dr. Nadeem Sheikh	2012	Department of Zoology Punjab University, Lahore
8	Dr. Nusrat Jahan	2015, 2016	Department of Zoology, G. C. University, Lahore
9	Dr. Hafiz M. Tahir	2012	Department of Zoology, G. C. University, Lahore

10	Dr. M. Sajid Hamid Akash	2014, 2015, 2016, 2017	Department of Zoology, G. C. University, Lahore
11	Dr. Tayyaba Sultana	2011, 2012	Department of Zoology, G. C. University, Faisalabad
12	Dr. Abdul Rehman	2004, 2005, 2006, 2007, 2008, 2010, 2016	Department of Microbiology & Molecular Genetics, Punjab University, Lahore
13	Dr. M. Afzal Ghauri	2010, 2011, 2012, 2013, 2015, 2016	NIBGE, Faisalabad
14	Dr. Iran Zia Qureshi	2009, 2010, 2011, 2012	Department of Biological Sciences, Quaid-i-Azam University, Islamabad
15	Dr. Sarwat Jahan	2011, 2012	Department of Biological Sciences, Quaid-i-Azam University, Islamabad
16	Mr. Shakeel Ahmad	2007	IPMI, NARC, Islamabad
17	Dr. Muhammad Nasim	2017	Department of Zoology, AJ&K University, Muzafferabad
18	Dr. Saiqa Andleeb	2014	Department of Zoology, AJ&K University, Muzafferabad
19	Dr. Abdul Aleem Khan	2007-2012 (Six times)	Department of Zoology, BZ University, Multan
20	Dr. Shahnaz Akhtar Rana	2009	Department of Zoology & Fisheries Biology Agriculture University, Faisalabad
21	Dr. Shahina Fayyaz	2011, 2012, 2014, 2015	National Nematology Research Centre, University of Karachi, Karachi
22	Dr. Tabassum Ara Khanum	2012, 2015	National Nematology Research Centre, University of Karachi, Karachi
23	Dr. Nasira Khatoon	2011, 2012, 2014, 2015	Department of Zoology, University of Karachi, Karachi
24	Dr. Rana Ashfaq Ahmad Khan	2013, 2014, 2015	Department of Entomology, Agricultural University, Faisalabad
25	Dr. Pirzada Jamal Siddiqui	2007	Institute of Marine Sciences, University of Karachi, Karachi
26	Dr. Syed Shahid Ali	2001, 2002, 2003	Department of Zoology, Punjab University, Lahore
27	Dr. Muhammad Afzal	2011,2012,2013,2014,2015,2016,2017,2018	Voice Chancellor, Baba Guru Nanak University, Nankana Sahib, Punjab

## 10. WEBSITES OF THE SOCIETY AND IMPORTANT CONTACTS

<https://zsp.com.pk/>

<http://manuscripthandler.com/researcherslinks/Pakistan-journal-of-zoology>

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## Annexure-I. List of Life-Fellows of Zoological Society of Pakistan

SR#	NAME OF LIFE-FELLOWS and Addresses
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**Annexure-IV. Fellows of the Zoological Society of Pakistan who are also Members of Different Commissions and Species Specialist Groups of IUCN.**

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<b>Dr. Muhammad Zaheer Khan</b>	<ul style="list-style-type: none"> <li>• Commission Member - CEM Coastal Ecosystems Group 2013-2016</li> <li>• Commission Member - CEM Red List of Ecosystems Thematic Group 2013-2016</li> <li>• Commission Member - CEM West/Central Asia 2013-2016</li> <li>• Regional Chair, West Asia, Commission on Ecosystem Management</li> <li>• Commission Member - CEM Wetland Ecosystem Thematic Group 2013-2016</li> <li>• Commission Member - WCPA Climate Change and Protected Areas 2013-2016</li> <li>• Commission – WCPA South Asia 2013-2016</li> </ul>
<b>Dr. Fakhar Abbas</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Bear Specialist Group 2013-2016</li> <li>• Commission Member - IUCN SSC Bird Red List Authority 2013-2016</li> <li>• Commission Member - IUCN SSC Pangolin Specialist Group 2013-2016</li> <li>• Commission Member - IUCN SSC Wildlife Health Specialist Group 2013-2016</li> <li>• Staff - Taraqee Foundation</li> </ul>
<b>Dr. Abdul Aleem Chaudhry</b>	<ul style="list-style-type: none"> <li>• Vice Regional Chair (Pakistan) of the South Asia Chapter of Crocodile Specialist Group</li> <li>• Member of the Sustainable Utilization Group (Asia Chapter) for two terms</li> <li>• Member of Species Survival Commission since 1990's and Specialist Groups: Caprinae Specialist Group; Cetacean Specialist Group; Asian River Dolphin Group; Crocodile Specialist Group; Houbara Bustard Specialist Group; Partridges, Quails and Francolins Specialist Group; Threatened Waterfowl Specialist Group</li> <li>• Commission Member - SSC/WCPA Protected Areas and Biodiversity Task Force 2013-2016</li> </ul>
<b>Prof. Abdul Aleem Khan</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Galliformes Specialist Group 2013-2016</li> </ul>
<b>Mr. Ashiq Ahmad Khan</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Cat Specialist Group 2013-2016</li> <li>• Commission Member - SSC/WCPA Protected Areas and Biodiversity Task Force 2013-2016</li> </ul>

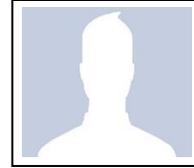
	<ul style="list-style-type: none"> <li>• Commission Member - WI-IUCN SSC Crane Specialist Group 2013-2016</li> </ul>
<b>Dr. Muhammad Moazzam</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Snapper, Seabream &amp; Grunt Specialist Group 2013-2016</li> </ul>
<b>Ms. Uzma Khan</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Conservation Breeding Specialist Group 2013-2016</li> <li>• Commission Member - IUCN SSC Re-introduction Specialist Group 2013-2016</li> <li>• Commission Member - IUCN SSC Vulture Specialist Group 2013-2016</li> </ul>
<b>Dr. Waseem Ahmad Khan</b>	<ul style="list-style-type: none"> <li>• Member: IUCN SSC Otter Specialist Group</li> <li>• Country Representative: IUCN SSC Otter Specialist Group</li> <li>• Species Contact: Smooth-coated Otter</li> <li>• Chairman, Pakistan Wildlife Foundation</li> <li>• Chairman, Department of Wildlife &amp; Ecology, University of Veterinary &amp; Animal Sciences, Lahore</li> <li>• Commission Member - IUCN SSC Otter Specialist Group 2013-2016</li> </ul>
<b>Dr. Zahid Iqbal Khan</b>	<ul style="list-style-type: none"> <li>• Commission Member - WI-IUCN SSC Crane Specialist Group 2013-2016</li> </ul>
<b>Dr. Tariq Mahmood</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Pangolin Specialist Group 2013-2016</li> </ul>
<b>Dr. Muhammad Mahmood-ul-Hassan</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Bat Specialist Group 2013-2016</li> </ul>
<b>Dr. Frakhanda Manzoor Dugal</b>	<ul style="list-style-type: none"> <li>• Senior Manager ORIC, Lahore College for Women University (LCWU)</li> <li>• Incharge Dengue Prevention &amp; Control Cell, LCWU</li> <li>• President Zoology Society, LCWU</li> <li>• Editor-in-Chief: Journal of Innovative Sciences (JIS) LCWU</li> <li>• President, Society for the Promotion of Science &amp; Technology, LCWU Website: <a href="http://www.jiis-spst.com">www.jiis-spst.com</a></li> </ul>
<b>Prof. Sajid Muhammad Nadeem</b>	<ul style="list-style-type: none"> <li>• Commission Member - WI-IUCN SSC Threatened Waterfowl Specialist Group 2013-2016</li> </ul>
<b>Dr. Muhammad Nadeem</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Canid Specialist Group 2013-2016</li> </ul>
<b>Dr. Muhammad Rafi</b>	<ul style="list-style-type: none"> <li>• Co Chair - IUCN SSC South Asian Invertebrate Specialist Group 2013-2016</li> <li>• Commission Member - IUCN SSC Specialist Group Chairs 2013-2016</li> </ul>
<b>Dr. Muhammad Rais</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Amphibian Specialist Group 2013-2016</li> <li>• IUCN Conservation Planning Specialist Group</li> <li>• Commission on Ecosystem Management</li> <li>• Member Species Survival Commission</li> </ul>

<b>Dr. Zulfiqar Ali</b>	<ul style="list-style-type: none"> <li>• Commission Member - IUCN SSC Crocodile Specialist Group 2013-2016</li> </ul>
<b>Prof. Maqsood Anwar</b>	<ul style="list-style-type: none"> <li>• Commission Member - WCPA South Asia 2013-2016</li> </ul>
<b>Mr. Azhar Hasan</b>	<ul style="list-style-type: none"> <li>• Commission Member - WCPA South Asia 2013-2016</li> </ul>
<b>Prof. Iftikhar Hussain</b>	<ul style="list-style-type: none"> <li>• Commission Member - WCPA South Asia 2013-2016</li> </ul>
<b>Dr. Farzana Khan</b>	<ul style="list-style-type: none"> <li>• Commission Member - WCPA Caves and Karst Specialist Group 2013-2016</li> <li>• Commission Member - WCPA Climate Change and Protected Areas 2013-2016</li> <li>• Commission Member - WCPA Conventions and Policy 2013-2016</li> <li>• Commission Member - WCPA South Asia 2013-2016</li> <li>• Commission Member - WCPA World Heritage 2013-2016</li> </ul>
<b>Dr. Sanghum Khalil</b>	<ul style="list-style-type: none"> <li>• Member Galliformes Specialist Group</li> </ul>

### Annexure-V. Former Office Bearers of the Zoological Society of Pakistan (1968 - 2020)

Year	President	Vice-Presidents	Secretary General	Treasurer	Chief Editor/ Editor
1968-1969	Mian Afzal Hussain	1. M. Afzal Hussain Qadri 2. H.K. Yousafzai	Ahmed Mohiuddin	-	Muzaffar Ahmad
1969-1970	Mian Afzal Hussain	1. M. Afzal Hussain Qadri 2. H.K. Yousafzai	Ahmed Mohiuddin	Syed Hamid Mahmood	Muzaffar Ahmad
1970-1972	M. Afzal Hussain Qadri	1. M. Yunus 2. A.K.M. Aminul Haque	Ahmed Mohiuddin	Syed Hamid Mahmood	Muzaffar Ahmad
1973-75	Hamid Khan Bhatti	1. M. Rahimullah Qureshi 2. Z.A. Hashmi	Ahmed Mohiuddin	M. Aslam Khan	Muzaffar Ahmad
1975-1980	M. Rahimullah Qureshi	1. Ahmed Mohiuddin 2. A.Q. Ansari	Syed Hamid Mahmood	M. Aslam Khan	Muzaffar Ahmad
1980-1981	M. Rahimullah Qureshi	A.Q. Ansari	Syed Hamid Mahmood	M. Aslam Khan	Muzaffar Ahmad
1981-84	Mohiuddin Ahmed	1. A.Q. Ansari 2. Hamid Mahmood	Daler Khan	M. Anwar Malik	Muzaffar Ahmad
1984-1986	Mohiuddin Ahmed	1. Imtiaz Ahmed 2. S. Ishfaq Hussain	Shahzad A. Mufti	Khalid P. Lone	Muzaffar Ahmad
1986-1987	A.Q. Ansari	1. Manzoor Ahmed 2. Agha Ikram Mohiuddin	Shahzad A. Mufti	Khalid P. Lone	1. Muzaffar Ahmed 2. A.R. Shakoori
1987-1988	A.Q. Ansari	1. Manzoor Ahmed 2. Agha Ikram Mohiuddin	Shahzad A. Mufti	Abdul Majid Cheema	1. Muzaffar Ahmed 2. A.R. Shakoori
1989-1991	A.Q. Ansari	M. Naseem Siddiqui	Masood A. Qureshi	Abdul Majid Cheema	1. Muzaffar Ahmed 2. A.R. Shakoori
1991-1992	Daler Khan	M. Naseem Siddiqui	Masood A. Qureshi	Abdul Majid Cheema	1. Muzaffar Ahmed 2. A.R. Shakoori
1992-1993	Daler Khan	Syed Ifkhar Hussain Jafri	Abdul Rauf Shakoori	Abdul Majid Cheema	1. Muzaffar Ahmed 2. A.R. Shakoori
1993-1994	Daler Khan	Syed Ifkhar Hussain Jafri	Abdul Rauf Shakoori	Abdul Majid Cheema	1. Muzaffar Ahmed 2. A.R. Shakoori
1994-1995	M.H. Qazi	1. M. Maqbool Ahmad 2. Fatima Mujib Bilgess	Abdul Rauf Shakoori	M. Saeed Akhter	1. Muzaffar Ahmed 2. A.R. Shakoori
1995-1997	Muzaffar Ahmad	1. S.N.H. Naqvi	M. Saeed Akhter	Abdul Rauf Shakoori	1. Muzaffar Ahmed

	M -Arslan	2. Shahzad A. Mufti	Shahzad A. Mufti	Abdul Rauf Shakoori	2. A.R. Shakoori
1997-1998	M -Arslan	1. Masood A. Qureshi 2. Nadeem Ahmad Sheri	Shahzad A. Mufti	Abdul Rauf Shakoori	1. Muzaffar Ahmed 2. A.R. Shakoori
1998-1999	M. Arslan	1. Masood A. Qureshi 2. Nadeem Ahmad Sheri	Shahzad A. Mufti	Syed Shahid Ali	1. Muzaffar Ahmed 2. A.R. Shakoori
1999-2001	Imtiaz Ahmad	1. Syed Iftikhar H. Jafri 2. Afsar Mian	Shahzad A. Mufti	Syed Shahid Ali	1. Muzaffar Ahmed 2. A.R. Shakoori
2001-2003	Imtiaz Ahmad	3. Syed Iftikhar H. Jafri 4. Afsar Mian	Abdul Rauf Shakoori	Syed Shahid Ali	1. Muzaffar Ahmed 2. A.R. Shakoori
2003-2005	Shahzad A. Mufti	1. Rana Shahid Mehboob 2. M. Nadeem Khan	Abdul Rauf Shakoori	Khwaja Abdul Mujeeb	1. Muzaffar Ahmed 2. A.R. Shakoori
2003-2004	Abdul Rauf Shakoori	1. Abdul Aziz Khan 2. M. Afzal Kazmi	Muhammad Afzal	Khwaja Abdul Mujeeb	1. Muzaffar Ahmed 2. A.R. Shakoori
2005-2008	Abdul Rauf Shakoori	1. Muhammad Afzal Kazmi 2. Abdul Aziz Khan	Muhammad Afzal	Zulfiqar Ali Saqib	1. Muzaffar Ahmed 2. A.R. Shakoori
2009-2012	Muhammad Afzal Kazmi	1. Syed Shahid Ali 2. Shamsuddin Ahmed	Abdul Rauf Shakoori	Zulfiqar Ali Saqib	1. Muzaffar Ahmed 2. A.R. Shakoori
2013-2016	Abdul Rauf Shakoori	1. Syed Akram Shah 2. Nasreen Memon	Abdul Aziz Khan	Abdul Rehman	1. Muzaffar Ahmed 2. A.R. Shakoori
2017-2020	Abdul Rauf Shakoori	1. Muhammad Ali 2. Naeem Tariq Nargjo	Abdul Aziz Khan	Abdul Rehman	1. Muzaffar Ahmed 2. A.R. Shakoori



## Annexure-VI. Founding Fellows of the Zoological Society of Pakistan

NAME	ADDRESS
<b>Abbas, Hafiz Manzoor</b>	Department of Plant Protection, Government of Pakistan, Malir Halt, Karachi
<b>Abedin, Zainul (Dr.)</b>	Department of Biochemistry, University of Karachi
<b>Ahmad, Imtiaz (Dr.)</b>	Department of Zoology, University of Karachi
<b>Ahmad, Muzaffar (Dr.)</b>	Department of Zoology, University of the Punjab, Lahore
<b>Ahmad, Naseerudin</b>	Department of Zoology, Government College, Lahore
<b>Ahmad, Nazir (Dr.)</b>	Directorate of Fisheries, Government of West Pakistan, Lahore
<b>Ahmad, Mahmood (Dr.)</b>	Department of Zoology, University of Karachi
<b>Ahmed, Syed Shamim (Dr.)</b>	Department of Zoology, University of Sind, Jamshoro
<b>Ahmed, Zahir (Dr.)</b>	Central Laboratories, P.C.S.I.R., Karachi
<b>Ahsan-ul-Islam (Dr.)</b>	Department of Zoology, Government College, Lahore
<b>Akber, S. Shujatul (Dr.)</b>	Department of Zoology, University of Sind, Jamshoro
<b>Alam, Nurul (Dr.)</b>	Department of Zoology, University of Dacca
<b>Ali, Syed Sabir</b>	Department of Zoology, University of Sind, Jamshoro
<b>Ameen, Mahmoodul (Dr.)</b>	Department of Zoology, University of Dacca
<b>Aminul Haque, A.K.M. (Dr.)</b>	Department of Fisheries and Zoology, Agricultural University, Mymensingh
<b>Ansari, M.A. Salam (Dr.)</b>	Directorate of Fisheries, Mangla Dam, Mirpur
<b>Anwarullah, Mohammad (Dr.)</b>	Central Laboratories, P.C.S.I.R., Karachi
<b>Ashrafi, Shahid Hussain (Dr.)</b>	Central Laboratories, P.C.S.I.R., Karachi
<b>Aziz, Najmuddin</b>	Adamji Science College, Karachi
<b>Bakr, Abu (Dr.)</b>	Department of Zoology, University of the Punjab, Lahore
<b>Baloch, Qamruddin</b>	Fisheries Directorate, Agricultural Development Corporation, G.M. Barrage, Hyderabad
<b>Baqai, I.U. (Dr.)</b>	Department of Zoology, University of Karachi
<b>Bashirullah, A.K.M. (Dr.)</b>	Department of Zoology, University of Dacca
<b>Begum, Anwara (Dr.)</b>	Department of Zoology, University of Dacca
<b>Bhatti, Hamid Khan (Dr.)</b>	Department of Zoology, Forman Christian College, Lahore
<b>Ghani, M.A. (Dr.)</b>	Commonwealth Institute of Biological Control, Rawalpindi

<b>Haque, Heshamul</b>	Department of Plant Protection, Government of Pakistan, Malir Halt, Karachi
<b>Haque, Mazharul (Dr.)</b>	Department of Zoology, University of Karachi
<b>Hashmi, Abdul Waheed</b>	Department of Zoology, Agricultural University, Lyallpur
<b>Hussain, Mian M. Afzal</b>	H.Q.A., 51/3 Lawrence Road, Lahore
<b>Hussain, Kazi Zakir</b>	Department of Zoology, University of Dacca
<b>Hussain, Syed Ishfaq</b>	Department of Zoology, University of Sind, Jamshoro
<b>Jaffer, S.M. (Dr.)</b>	Scientific and Technological Research Division, Government of Pakistan, Islamabad
<b>Jafri, Rafat Hussain (Dr.)</b>	Department of Zoology, University of the Punjab, Lahore
<b>Katebi, Noorul Alam</b>	Forest Department, Mahakhali Road, Dacca
<b>Khan, Akbar Ali</b>	Department of Zoology, Agricultural University, Lyallpur
<b>Khan, Daler (Dr.)</b>	Department of Zoology, University of the Punjab, Lahore
<b>Khandker, Ali Akber</b>	Department of Zoology, University of Dacca
<b>Mahmood, S. Hamid (Dr.)</b>	Department of Zoology, University of Karachi
<b>Mohiuddin, Ahmed (Dr.)</b>	Department of Zoology, University of Sind, Jamshoro
<b>Naqvi, Naimul Hassan (Dr.)</b>	Central Laboratories, P.C.S.I.R., Karachi
<b>Pal, Riaz Ahmed</b>	Department of Zoology, University of Sind, Jamshoro
<b>Qadri, M.A.H. (Dr.)</b>	Department of Zoology, University of Karachi
<b>Qazi, Mahmood H. (Dr.)</b>	Department of Physiology, University of Karachi
<b>Qureshi, Rahimullah (Dr.)</b>	2/42-G., P.E.C.H.S, Karachi
<b>Rab, Masooma (Mrs.)</b>	Department of Zoology, Eden Girls College, Dacca
<b>Rahman, Mustafizur (Dr.)</b>	Department of Zoology, Rajshahi University, Rajshahi
<b>Rizvi, S.S.H. (Dr.)</b>	Department of Zoology, Government Degree College, Sukkur
<b>Siddiqui, Ather Ali (Dr.)</b>	Department of Zoology, Government Degree College, Hyderabad
<b>Siddiqui, M.S.U.</b>	Zoological Survey Department, Karachi
<b>Tufail, Muhammad (Dr.)</b>	Department of Zoology, University of Karachi
<b>Wahid, S. (Dr. Mrs.)</b>	Department of Zoology, University of Karachi
<b>Warsi, Akhlaque Ahmad (Dr.)</b>	Department of Zoology, University of Sind, Jamshoro
<b>Yunus, Muhammad (Dr.)</b>	Department of Zoology, Agricultural University, Lyallpur

## **Annexure-VII. List of Foreign/Local Institutions/ Organizations who get PJZ in Exchange**

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1. Zoologisches Forschungs Museum, Alexander Koenig Bibliothek , Adenauerallee 160, D-53113 BONN, Germany.
2. Centro De Informacion Geobiologico, Del Noroeste Argentino Fundacion Miguel Lillo, Miguel Lillo 251 – (4000) San Miguel De Tucuman, Tucumain - Republica Argentina.
3. Tropical Zoology, C/O CNR – Istituto Per Lo Studio Degli Ecosistemi, VIA Madonna Del Piano, 10 50019 Sesto Fiorentino, Firenze, Italy.
4. Drosophila Information Service, C/O James N. Thompson, Jr., Department of Zoology, 730 Van Vleet Oval, University of Oklahoma, Norman, 73019, U.S.A.
5. Zoological Society of Bangladesh, Department of Zoology, University of Dhakka, Dhakka, Bangladesh.
6. Exchange Section Library, Beijing Natural History Museum, 126, Tien Chiao Street, Peking (2), People's Republic of China.
7. The Central Scientific Library, Academy of Sciences of Turkmen SSR
8. Exchange Department, Gogolya 15a Ashkhabad, 744607, Turkmanistan.
9. Senckenberg Research Institute & Natural History Museum, Publication Exchange Service, Senckenberganlage 25, D-60325, Frankfurt Am Main, Germany.
10. The Director, Meguro Parasitological Museum, 1-1, Shimomeouro, 4-Chome, Meguro-KU, Tokyo, 153-0064, Japan.
11. Library, Department of General Zoology, Istanbul University, Istanbul, Turkey.
12. Librarian, Faculty of Science Library, University of Al-Faateh, P.O. BOX 13679, Tripoli, Libya.
13. Senior Assistant Librarian, Science Library, University of Peradeniya, Peradeniya, Sri Lanka.
14. Executive Editor, Zoologica Scripta, University of Oslo, Natural History Museum, Department of Zoology, P.O. BOX.1172, Blindern, N-0318, Oslo, Norway.
15. Head, Exchange Division, Library of The Academy of Sciences, Leningrad, V-164, Birgevaja Linija, 1, Russia.
16. Director, Zoological Institute, Academy of Sciences of USSR, 199164 Leningrad V 164, Russia.
17. Chief Editor, International Book Exchange, Academy of Sciences of Byelorussian SSR, Yakub Kolas Basic Library, Typografskaya Street 15, 220601 Minsk, B.S.S.R.
18. Serials, IADS, Level1, Duhig Building, Library, The University of Queensland Library, ST. Lucia Campus, QLD 4072, Australia.

19. The library (Periodicals), Victoria University of Wellington, P.O.BOX. 3438, Wellington, New Zealand.
20. Foundation Scientifique Ricard, Foundation Oceanographique Ricard, Observatoire De La Mer, Ile Des Embiez-Le Brusca, 83140 Six-Fours-Les Places, France.
21. Universitat Hamburg, Biozentrum Grindel Und Zoologisches Museum-Bibliothek-Martin-Luther-King-Platz 3, 20146 Hamburg/Deutschland, Germany.
22. The Editor, Sociobiology, Universidade Estadual De Feira De Santana – Uefs Brazil.
23. Library, Institute of Zoology, Chinese Academy of Sciences, Datun Road, Beijing 100101, China.
24. NEV Bibliotheek, Naturalis Biodiversity Centre, Postbus 9517, 2300 RA LEIDEN, The Netherlands.
25. Executive Editor, Zoologica Scripta, Swedish Museum of Natural History, Department of Vertebrate Zoology, P.O. BOX.50007, S-104 05 Stockholm, Sweden.
26. Museum and Institute of Zoology, Polish Academy of Sciences, Library, Wileza Street 64, 00-679 Warsaw, Poland.
27. Librarian, Universidade Federal Do Parana, Biblioteca Central – Secao De Intercambio, Caixa Postal 19051, 81531 – 990 Curitiba, PR. Brasil.
28. Librarian, Zoologiske Museum, University of Copenhagen, Universitetsparken 15, DK-2100 Kobenhavn, Denmark.
29. Museum Fur Naturkunde, Bibliothek, Invalidenstrasse 43, D-10115 Berlin, Deutschland/Germany.
30. Schweiz Tropeninstitut, Socinstrasse 57, CH-4051 Basel, Switzerland.
31. Library & Archives, Academy Library of Natural Sciences of Drexel University, 1900 Benjamin Franklin Parkway, Philadelphia PA 19103, U.S.A.
32. Librarian, Museu De Ciencies Naturals De La Ciutadella, Passeig Picasso S/N, Parc De La Ciutadella E-08003, Barcelona, Spain.
33. Exchange Kvab, Stockholm University Library with the Library of Academy of Sciences, S-106 91 Stockholm, Sweden.
34. Scientist Incharge, Tisd - Library (Exchange), Publications and Information Directorate, (CSIR), Hillside Road, New Delhi 110012, India.
35. Madlena Kiskinova, Head, International Exchange Division of the Central Library of the Bulgarian Academy of Sciences, 15 Noemri, Street NO.1, 1040 Sofia, Bulgaria.
36. International Centre for Integrated, Mountain Development (ICIMD), G.P.O. BOX. 3226, Kathmandu, Nepal.
37. Setor De Permuta E Expedicao , Biblioteca Do Museu Nacional – UFRJ, Av. Gal. Herculano Gomes, Horto Botanico - Quinta Da Boa Vista, Sao Cristovao - Rio De Janeiro, 20.941 -360 Rio De Janeiro, Brasil.
38. Library, National Museum of Nature & Science, 4-1-1 Amakubo, Taskuba-Shi, Ibaraki, 305-0005, Japan.
39. Library Section, Graduate School of Science, University of Tokyo, 7-3-1, Hongo, Bunkyo-Ku, Tokyo 113-0033, Japan.
40. Editor, Insect Science & Its Application, P.O. Box. 72913, Nairobi, Kenya.
41. ACQ./Periodicals , Chi Meriam Library, California State University, Chico, CA 95929-0295, U.S.A.
42. The Philippine Scientist, San Carlos Publication, University of San Carlos, 6000 Cebu City, Philippine.

43. Alexander Library of Ornithology, (Radcliffe Science Library), Acquisitions Services, First Floor, Osney One Building, Osney Mead, Oxford OX2 0EW, United Kingdom.
44. Acquisitions Department Exchange, Parks Library, Iowa State University, Ames, Iowa, 50011, U.S.A.
45. Gifts and Exchanges, Research Library-MS26, Woods Hole Oceanographic Institutions, Woods Hole, MA 02543-1541, U.S.A.
46. Ernst Mayr Library, Museum of Comparative Zoology, Harvard University, 26 Oxford Street, Cambridge, MA 02138, U.S.A.
47. Smithsonian Libraries/Ser.Rec./Exch., NHB 37mz - MRC 154, P.O. BOX.37012, Washington D.C.20013-7012, U.S.A.
48. Library (Serials Unit), American Museum of Natural History, Central Park West at 79th Street, New York 10024-5192, U.S.A.
49. USC Science & Engineering Library, SSL 301A, 910 Bloom Walk, University of Southern California, Los Angeles, CA 90089-0481, U.S.A.
50. Coordinador Canje, Instituto De Ciencias Naturales, Universidad Nacional De Colombia, Sede Bogota Hemeroteca Nacional Carlos Lieras Restrepo. AV. El Dorado NO.44 A- 40, Columbia.
51. Library-Gifts and Exchanges, Field Museum of Natural History, 1400 South Lake Shore Drive, Chicago, Illinois 60605-2496, U.S.A.
52. Biblioteca Del Museo Regionale Di, Scienze Naturali, Via Giolitti, 36, 10123 Torino, Italy.
53. Library, Department of Zoology & Anthropology, Kossuth University, H-4010 Debrecen, Hungary.
54. Editorial Office, Journal of Toxicological Sciences, Medical Tribune, Inc., Italian Cultural Institute Bldg. 8F, 2-1-3 Kudan Minami, Chiyoda-Ku, Tokyo 102—0074, Japan.
55. Zoological Institute, USSR Academy of Science, Leningrad 199034, Russia.
56. Department of Biology, School of Education, Waseda University, 6-1, Nishiwaseda 1-Chome, Shinjuku-Ku, Tokyo 160, Japan.
57. Science and Technology Information Institute, Department of Science and Technology, Bicutan, Tagig, Metro Mainla 1604, P.O. BOX 080, Tagig, Philippines.
58. Department De Zoologia E Antropologia, Faculdade De Ciencias C2, Universidade De Lisboa, P-1700 Lisboa, Portugal.
59. Director, Sherkin Island Marine Station, Sherkin Island, CO. Cork, Ireland.
60. Zoologische Staatssammlung, Library – Exchange, Munchhausenstrasse 21, D-81247 Munchen, Germany.
61. Librarian, Institute of Agriculture & Animal science, Tribhuvan University,Central Campus, P.O. BOX. 984, KTM., Rampur, Chitwan, Nepal.
62. Academy of Scientific Research and Technology, National Information and Documentation, Centre (NIDOC), AL-Tahrir ST., Dokki, Cairo, Egypt.
63. FAO Library, Serials/Exchanges, Vle Terme Di Caracalla, 00153 Roma, Italy.
64. Chief Editor, Apptla, Cefybo-Conicet, Serrano-669, (1414) Buenos Aires, Argentina.
65. The Editor, (BJSIR), Bangladesh Journal of Scientific & Industrial Research, (BCSIR), Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh.

66. Serials Acquisitions Specialist, Kansas State University, 137 Hale Library, Manhattan, KS 66506-1200, U.S.A.
67. Chief librarian, University of the Uludag, TR-16059 Gorukle/Bursa, Turkey.
68. Università Degli Studi Di Firenze, Biblioteca Di Scienze (Biologia Animale), VIA Romana ,17 - 50125 Firenze, Italy.
69. Director, Institute of Zoology, Bulgarian Academy of Sciences, 1 Tsar Osvoboditel BLVD., Sofia 1000, Bulgaria.
70. Acquisitions Section, Library & Archives, The Natural History Museum, Cromwell Road, London SW7 5BD, United Kingdom.
71. Bibliothèque Centrale Du Muséum National D'histoire Naturelle, 38, Rue Geoffroy-Saint-Hilaire 75005, Paris, France.
72. Senckenberg Deutsches Entomologisches Institut, Library, Eberswalder Str. 90, 15374 Müncheberg, Germany.
73. Director, Central Scientific Library, Ministry of Education & Science, Shevchenko, 28, 480100 Almaty, Kazakhstan.

**List of Local Institutions/Organizations who get PJZ in Exchange**

74. Resource Centre for Development Alternatives (RCDA) Mountain Inn., Chitral.
75. Field Director, Library of Congress Islamabad Field Office American Embassy Diplomatic Enclave, Ramna 5 Islamabad – 44000
76. Editor, Pakistan Agricultural Research Council, National Agricultural Research Centre Park Road, Chak Shahzad, P.O. NIH Islamabad.
77. Bait Al – Hikmat, Hamdard University Library, P.O. Madinat Al-Hikmat, Sharea Madinat-Al-Hakima, Bund Murad Khan, Karachi-74700.
78. Editor, Pakistan Armed Forces Medical Journal, Department of Physiology Army Medical College, Abid Majeed Road, Rawalpindi.
79. Librarian, Pakistan Journal of Forestry, Pakistan Forest Institute, Peshawar.
80. The Manager EDRC, Worldwide Fund for Nature, WWF-Pakistan, Ferozepur Road, P.O. BOX.5180 Lahore-54600.
81. Managing Editor, Pakistan Journal of Agriculture, Agricultural Engineering & Veterinary Sciences, (PJAAEVS) at Faculty of Crop Production Building, Sindh Agricultural University, Tandojam.
82. Executive Editor/Associate Director (P&D), PCSIR, Scientific Information Centre, PCSIR Laboratories Campus, Shahrah-E-Dr. Salimuzamman Siddiqui, Karachi-75280.
83. The Librarian, Central Library, Sindh Agriculture University, Tandojam.
84. The Librarian, Main Library, The University of Agriculture, Peshawar.

**Annexure-VIII: List of Plenary Lectures Delivered by invited speakers during Pakistan Congress of Zoology (1980-2018)**

No. PCZ/ Year	Name of Lecturer	Title of Lecture
<b>1<sup>st</sup> 1980</b>	Dr. Daler Khan and Dr. Fatima Mujib Bilquees Dr. M. Aslam Khan Dr. M. Arsalan and Dr M.A. Hafeez Dr. Abdul Rauf Shakoori Mr. Zahid Beg Mirza Dr. Imtiaz Ahmad  Dr. Hafiz Abdul Qayyum Dr. Muzammil Ahmad  Dr. M. Ramzan Mirza  Dr. Nazir Ahmad	1. <i>History of Helminthology in Pakistan.</i> 2. <i>Medical Entomology and Parasitology in Pakistan.</i> 3. <i>Endocrinological research in Pakistan</i> 4. <i>Status of Biochemical Research in Pakistan.</i> 5. <i>Wildlife of Pakistan.</i> 6. <i>Insect Fauna of Pakistan with special reference to some groups of Heteroptera, Homoptera and Lepidoptera.</i> 7. <i>Agricultural Entomology in Pakistan.</i> 8. <i>The breeding and recruitment of marine animals along the coast of Pakistan bordering the Arabian Sea.</i> 9. <i>Systematics and Zoogeography of the freshwater fishes of Pakistan.</i> 10. <i>Aquaculture in Pakistan.</i>
<b>2<sup>nd</sup> 1981</b>	Dr. Abdul Rauf Shakoori Dr. Agha Ikram Mohyuddin Mr. Z.B. Mirza	11. <i>Biochemical Research in Pakistan.</i> 12. <i>Biological Control in Pakistan.</i> 13. <i>Birds and Mammals of Pakistan</i>
<b>3<sup>rd</sup> 1982</b>	Dr. Heshamul Haq Dr. Muhammad Yaqub Javaid	14. <i>Pest Control in Pakistan: Ground and Aerial Operations.</i> 15. <i>Inland Fisheries of Punjab: Current Status and Future Prospects.</i>
<b>6<sup>th</sup> 1985</b>	Dr. Azhar Beg Mirza Mr. Abdu Aziz Khan Dr. Muzaffar Ahmad	16. <i>Ecology of rats and mice in the agro-systems of Punjab.</i> 17. <i>Vertebrate Pests of Pakistan: Problems and Practices.</i> 18. <i>Termites of Pakistan</i>
<b>10<sup>th</sup></b>	Dr. S. Mujtaba Naqvi Dr. Agha Ikram Mohyuddin	19. <i>Status and Prospects of Biotechnology in Pakistan.</i> 20. <i>Integrated pest control in Pakistan.</i>
<b>13<sup>th</sup> 1992</b>	Dr. S.M. Haq Dr. Shahdat Ali (Bangladesh)  Dr. Syed Iftikhar Hussain Jafri  Dr. Maqbool Ahmad	21. <i>Recent Advances in Marine Sciences.</i> 22. <i>Changes in Global Climate and its Effects on Fisheries Resources.</i> 23. <i>The Status of Diseases and Parasites in Freshwater Fisheries of Pakistan.</i> 24. <i>Plant Nematode Fauna of Pakistan.</i>
<b>14<sup>th</sup> 1993</b>	Prof. Dr. Anwar Waqar Prof. Dr. Syed Shamim Ahmad  Prof. Dr. Abdul Rauf Shakoori Dr. A.M. Cheema  Prof. Dr. Abdul Rauf Shakoori  Dr. Syed Shahid Ali	25. <i>Recent Development in Molecular Biology.</i> 26. <i>Human Filariasis in South and South East Asia: A brief appraisal of our present knowledge.</i> 27. <i>Regulation of gene expression.</i> 28. <i>Studies on the roles of major pancreatic hormones in nutrient metabolism of ruminants using dwarf goat as a model.</i> 29. <i>Pyrethroid induced macro-molecular abnormalities and their effects on growth in chicks of Gallus domesticus.</i> 30. <i>Pesticides-induced morphological and biological hazards in blood, liver and muscle of poultry.</i>
<b>15<sup>th</sup></b>	Dr. Anwar Nasim	31. <i>Modern trends in molecular biology.</i>

<b>1994</b>	Prof. Dr. Syed Naeemul Hassan Naqvi	32. <i>Prospects and development of neem-based pesticides in Pakistan.</i>
<b>16<sup>th</sup> 1995</b>	Dr. Kauser Abdullah Malik Dr. Rehman A. Syed  Dr. M. Saeed Akhtar	33. <i>Status of Biotechnology Research in Pakistan.</i> 34. <i>Insect pests management of some tropical perennial crops with particular reference to insect pathogens and its relevance to IPM in Pakistan.</i> 35. <i>Strategies in termite control.</i>
<b>17<sup>th</sup> 1996</b>	Dr. Mirza Asghar Beg  Dr. Syed Shamim Ahmad  Dr. Manzoor H. Soomro	36. <i>A strategy for controlling rats and mice populations in the canal irrigated crop lands of Central Punjab.</i> 37. <i>Biological control of mosquitoes in South and South East Asia: A brief appraisal of our present knowledge.</i> 38. <i>Role of Pakistan Science Foundation in promoting Zoological Sciences in Pakistan.</i>
<b>18<sup>th</sup> 1997</b>	Dr. Muhammad Afzal	39. <i>Scientific and technological information in biological research.</i>
<b>21<sup>st</sup> 2000</b>	Dr. Peter Wynn (Australia)  Dr. Jian-Fang Gui (China)  Dr. Richard M. Wilkins (UK) Dr. Louis Evans (Australia)  Dr. Freidoon Owfi (Iran)	40. <i>The complexity of stress hormones axis and its effect on animal growth and development.</i> 41. <i>Advances in fishery biotechnology for genetic breeding and viral diseases prevention in China.</i> 42. <i>Proteases and insecticides resistance in insects.</i> 43. <i>Health and condition monitoring in aquaculture and wild stock fisheries.</i> 44. <i>Coral Reef habitats and corallian fisheries of the Ropme Sea area, Persian Gulf, Oman Sean and Arabian Sea.</i>
<b>22<sup>nd</sup> 2001</b>	Dr. M.A. Samad Khan (Bangladesh)  Dr. Javed Hayat (Australia) Prof. Dr. Abdul Rauf Shakoori	45. <i>Effects of urea molasses multi-nutrient block on milk production and reproduction of crossbred dairy of small holder farms in Bangladesh.</i> 46. <i>Electrolyte supplementation for poultry during heat stress.</i> 47. <i>AML as transcriptional regulator and osteoblast differentiation mediator.</i>
<b>23<sup>rd</sup> 2003</b>	Dr. Muhammad Akhtar (UK) Dr. Sagir M. Ahmed (Bangladesh)  Dr. Movio Carezza (Italy)  Dr. Christoph Tourenq (UAE)	48. <i>New insights into the control of Androgen biosynthesis.</i> 49. <i>Toxic cyanobacteria bloom and the occurrence of Mirucystin from freshwater eutrophic ponds in Bangladesh.</i> 50. <i>Recent developments in the use of polymeric materials in biotechnology and biomedicine.</i> 51. <i>Can the Asian Houbara population survive the current hunting and poaching pressure?</i>
<b>24<sup>th</sup> 2004</b>	Dr. Nasiruddin  Dr. Muhammd Irfan Khan  Prof. Dr. Abdul Rauf Shakoori  Dr. Muhammad Naeem Khan	52. <i>Evolving new concepts in pursuit of expending vision: Combinatorial Metabolism in Plasmodium falciparum infected erythrocytes.</i> 53. <i>TRIPs agreement of WTO and Genetic Resources: Implications and options for developing countries.</i> 54. <i>Possible role of selections: Prediction based on post-translational modification sites.</i> 55. <i>Impacts of WTO agreements on fisheries biology.</i>
<b>25<sup>th</sup> 2005</b>	Dr. Fereidoon Owfi (Iran)  Dr. Rup Lal (India)  Prof. Dr. Abdul Rauf Shakoori	56. <i>Species and habitat diversity of fisheries in Iranian territorial waters of Persian Gulf, Hormoz Strait and Oman Sea.</i> 57. <i>Diversity and evolution of Lin genes on hexachlorocyclohexane degrading Sphingomonas paucimobilis strains and their use in developing bioremediation biotechnologies.</i> 58. <i>Role of biotechnology in livestock development.</i>

	Dr. Muhammad Naeem Khan	59. <i>Promotion of inland recreational fisheries in developing countries: A South-East Asian perspective.</i>
<b>26<sup>th</sup> 2006</b>	Dr. T. Subramonian (India)  Dr. Rup Lal (India)  Prof. Dr. Abdul Rauf Shakoori Dr. Quddusi B. Kazmi	60. <i>Steroid hormonal coordination of molting and female reproduction in the intertidal sand crab, Emerita asiatica (Milne Edwards).</i> 61. <i>Secrets of contamination of Indian environment by hexachlorocyclohexane and development of bioremediation biotechnologies.</i> 62. <i>Role of P53 in cancer development.</i> 63. <i>Activities at MRC of importance to faunal diversity and fishery resources.</i>
<b>27<sup>th</sup> 2007</b>	Dr. G. Rassam (USA) Dr. Peter C. Wynn (Australia)  Dr. A.D. Bush (Australia) Dr. David McGill (Australia)  Dr. Nasim Siddiqui Dr. Peter C. Wynn (Australia) Dr. Aslam Khan Dr. Inamullah Khan Prof. Dr. Abdul Rauf Shakoori	64. <i>Fisheries: A global science in the 21<sup>st</sup> century.</i> 65. <i>Comparative genomics and lactation making more money from milk.</i> 66. <i>Disease investigation in Australian sheep flocks.</i> 67. <i>The mathematical model of lactation curves and persistence of lactation in dairy sheep.</i> 68. <i>Artificial beef: Fish at doorstep.</i> 69. <i>Game meats: Health alternatives.</i> 70. <i>Dengue virus and mosquitoes in Pakistan.</i> 71. <i>Glimpses of scientific signs in the Noble Quran.</i> 72. <i>Darwin's evolution theory and Islam.</i>
<b>28<sup>th</sup> 2008</b>	Dr. Nasiruddin  Prof. Dr. Abdul Rauf Shakoori  Dr. Naeem Rashid  Dr. M. Nasim Siddiqui Dr. Khalid Khan Dr. R.D. Bush (Australia)  Dr. David McGill (Australia)  Prof. Dr. Abdul Rauf Shakoori	73. <i>Functional implications of post-translational modification of in proteins.</i> 74. <i>Heavy metal resistant protozoans as component of consortia for bioremediation of industrial wastewater.</i> 75. <i>Subterranean environment: A promising source for the isolation of psychrotrops.</i> 76. <i>Spedeogy- and emerging science.</i> 77. <i>Revival of the dying art of the taxonomy.</i> 78. <i>Dairy production in Pakistan: Extension of technical information to farmers.</i> 79. <i>Dairy production in Pakistan: A comparison between Australian and Pakistani system.</i> 80. <i>Ethical issues in biological research.</i>
<b>29<sup>th</sup> 2009</b>	Dr. M. Perwaiz Iqbal Dr. Muhammad Anwar Waqar  Prof. Dr. Abdul Rauf Shakoori Dr. Abdus Samad Khan (Bangladesh) Dr. Muhammad Suleman  Dr. Abdul Aleem Choudhry Dr. Imtiaz Ahmad Dr. Khalid Mahmood	81. <i>Glutathione in the prevention of coronary heart disease.</i> 82. <i>Bronchial asthma and allergies relevance in Karachi and air-borne pollen grains variation in the two big cities of Pakistan.</i> 83. <i>The role of transcription factors in the control of cell growth.</i> 84. <i>Supplementation of dairy feeding under small holder rural production systems to alleviate poverty.</i> 85. <i>Recent outbreaks of dengue in northern Pakistan are due to re-emergence of Aedes aegypti.</i> 86. <i>Strategies for the conservation of biodiversity.</i> 87. <i>Darwinism and Neo-Darwinism.</i> 88. <i>Biodiversity and sustainable development.</i>
<b>30<sup>th</sup> 2010</b>	Dr. Muhammad Perwaiz Iqbal.	89. <i>Hyperthromocysteinemia and B-Vitamin deficiencies in Pakistan population in Karachi.</i>

	Dr. Muhammad Anwar Waqar Prof. Dr. Abdul Rauf Shakoori Dr. Muhammad Suleman Dr. Abdul Aleem Chaudhry Dr. Imtiaz Ahmad Dr. Khalid Mahmood Dr. M. Nasim Siddiqui	90. <i>Asthma and allergies from fungal bio-aerosol in the atmosphere of Karachi.</i> 91. <i>Role of Runx<sup>2</sup> in epigenetic repression of ribosomal RNA gene.</i> 92. <i>Some further outbreaks of dengue in northern Pakistan.</i> 93. <i>Status of wildlife and wildlife management in Pakistan.</i> 94. <i>Dengue outbreak in Karachi.</i> 95. <i>Agro-ecological basis for pest management.</i> 96. <i>Climate change, its effects, mitigations and adaptations.</i>
<b>31<sup>st</sup> 2011</b>	Dr. M. Perwaiz Iqbal Dr. Syed Naeemul Hassan Naqvi  Prof. Dr. Abdul Rauf Shakoori  Dr. Muhammad Suleman Dr. Abdul Aleem Chaudhary  Dr. Imtiaz Ahmad  Dr. Bilqees Mujib Dr. M. Nasim Siddiqui	97. <i>Lead pollution- A grave risk to human health in Pakistan.</i> 98. <i>Investigations in the anti ulcer effect of neem leaf extract and Cedrus deodara oil.</i> 99. <i>Regulation of copper influx-efflux through plasma membrane in Klebsiella pneumoniae.</i> 100. <i>Research methodology, sampling methods and sample size.</i> 101. <i>Role of protected areas in the conservation of species and ecosystem.</i> 102. <i>Arthropod born haemorrhagic fever and their management strategies in Pakistan.</i> 103. <i>Histopathology of Fascioliasis in the goat and sheep.</i> 104. <i>Mangrov- Adeliete ecosystem, threats and opportunities.</i>
<b>32<sup>nd</sup> 2012</b>	Dr. Javed Akram  Dr. Nusrat Jahan Dr. Syed Akram Shah  Dr. Daniel Hoessle (Switzerland)  Prof. Dr. Abdul Rauf Shakoori Dr. Javed Iqbal Qazi  Dr. Pirzada Jamal Siddiqui	105. <i>Management of critically ill adult patients of dengue chock syndrome.</i> 106. <i>Prevention and control of dengue fever.</i> 107. <i>Cutaneous leishmaniasis in KPK: Special reference to the use of molecular approaches for better understanding of its epidemiology.</i> 108. <i>After the genes, the proteins, or the tools for research in the post-genomic era.</i> 109. <i>Realm of a cell.</i> 110. <i>Comprehensive bio-processing of low/no cost substrates for bio-energy- prospects in Pakistan.</i> 111. <i>Marine biodiversity- A case study of Pakistan.</i>
<b>33<sup>rd</sup> 2013</b>	Dr. Shahid Mahmood Baig Dr. Richard Bishof (UK)  Dr. M. Hussain Soomro and Dr. M. Rafique Dr. Nusrat Jahan Dr. Mirza Habib Ali  Mr. Abdul Aziz Khan  Dr. Abdul Majeed Cheema Dr. Syed Azhar Hasan  Dr. Abdul Aleem Dr. Imtiaz Ahmad Dr. Perwaiz Iqbal Dr. Syed Akram Shah Dr. Pirzada Jamal Siddiqui	112. <i>Prevention of genetic diseases in Pakistani population.</i> 113. <i>Determination of photographic detectability and implication for camera trap studies targeting multiple carnivores.</i> 114. <i>Role of UNESCOs Man and Biosphere programme in conservation of natural habitats and biodiversity.</i> 115. <i>Advanced trends for the control of dengue vectors in Pakistan.</i> 116. <i>Funding opportunities under Natural Sciences Linkage Programme of PSF.</i> 117. <i>Bio-economic impacts of vertebrate detriogens in agro-forestry systems of Pakistan.</i> 118. <i>Thyroid: Phylogeny and function.</i> 119. <i>High altitude butterflies of Pakistan and their responses to climate change.</i> 120. <i>Biodiversity and its status in Pakistan.</i> 121. <i>Control of dengue fever in Pakistan.</i> 122. <i>Dietary patterns and coronary heart diseases.</i> 123. <i>Current status of Cutaneous leishmaniasis.</i> 124. <i>Status of recent knowledge on marine cetacean abundance and diversity in Pakistan waters.</i>

<b>34<sup>th</sup> 2014</b>	<p>Dr. Syed Akhtar Ali (USA) Dr. Aleem Ahmad Khan</p> <p>Dr. Jirjis Haider Mr. Abdul Aziz Khan Dr. Muhammad Afzal Ghouri Dr. Ejaz Masood Dr. Muhmmad Mumtaz Malik</p> <p>Dr. Muhmmad Saeed Wagan Dr. Muhammad Naeem Khan</p>	<p>125. <i>Molecular regulatory factors and cancer stem cell fate decisions.</i></p> <p>126. <i>Nitrate contamination in drinking waters of Punjab: A potential cause of early childhood mortality in Pakistan.</i></p> <p>127. <i>Quran on human DNA and its origin.</i></p> <p>128. <i>Wondrous world of earthworms.</i></p> <p>129. <i>Status of coal biotechnology in Pakistan.</i></p> <p>130. <i>Breast cancer: A common problem among women.</i></p> <p>131. <i>Community Participation: A success story of wildlife conservation in KPK.</i></p> <p>132. <i>Biodiversity and distribution of Orthoptera insects of Pakistan.</i></p> <p>133. <i>Review of fisheries development in Pakistan - vision-2020.</i></p>
<b>35<sup>th</sup> 2015</b>	<p>Dr. Abdullah G. Arijo Dr. Salah A. Soliman (Egypt)</p> <p>Dr. Jan Johan Ter Poorten (The Netherland) Dr. Hui Zhang (China) Dr. M.A. Bashar (Bangaldesh)</p> <p>Dr. Naveed Ahmed Khan</p> <p>Mr. Muahhamd Moazzam Khan</p> <p>Dr. Jun Sun (China) Dr. Gao Chen-Rin (China)</p> <p>Dr. Yan Zhang (China)</p> <p>Dr. Hengjiu Tian (China) Dr. Abdul Aleem Chaudhry</p> <p>Dr. Jiaguang Xiao and Dr. Gao Tiixiang (China)</p>	<p>134. <i>Soft ticks in Tharparker: A molecular study towards zoonosis.</i></p> <p>135. <i>Harmonization of pesticide regulation and MRLs: An African initiative serving global health, environment and trade.</i></p> <p>136. <i>Biodiversity in the bivalve family Cardiidae: Larger the island knowledge, longer the shoreline wonder.</i></p> <p>137. <i>Genetic study of marine rockfish, <i>Sebastes schlegelli</i>.</i></p> <p>138. <i>Conservation of plants and successive tropic levels by colonizing butterflies in Bhawal National Park of Bangladesh.</i></p> <p>139. <i>Animals living in polluted environments are a potential source of antimicrobials against infectious agents.</i></p> <p>140. <i>Bycatch of commercial fishing practices: A major threat to the marine biodiversity in Pakistan.</i></p> <p>141. <i>Planktonic tintinneds community in the East Indian Ocean.</i></p> <p>142. <i>Effect of stocking density on adult turbot growth, physiology and water quality in re-circulating aquaculture system.</i></p> <p>143. <i>A genome scanning for analysis of economic trait-related OTLS in common carp, <i>Cyprinus carpio</i> L.</i></p> <p>144. <i>Beijing Wildlife Rescue and Rehabilitation Centre, China.</i></p> <p>145. <i>Wildlife and its management in Cholistan desert with special reference to conservation efforts.</i></p> <p>146. <i>Description and DNA bar coding of the Indian sillago, <i>Sillago indica</i>, (Perciformes: Sillaginidae) from the coast of Pakistan.</i></p>
<b>36<sup>th</sup> 2016</b>	<p>Dr. Peng Xu (China)</p> <p>Dr. Manzoor Hussain Soomro</p> <p>Dr. Wenjun Bu (China) Dr. Muhammad Saeed Wagan</p> <p>Mr. Zahid Beg Mirza Mr. Muhammad Moazzam Khan</p> <p>Dr. Zafar Iqbal</p> <p>Mr. Saeed Akhtar Baloch</p> <p>Mr. Muhammd Irshad</p>	<p>147. <i>Development and exploitation if genome resources and tools of common carp genetic breeding.</i></p> <p>148. <i>Inquiry based science education (IBSE) for S&amp;T innovation led economic development and international cooperation.</i></p> <p>149. <i>Phylogeny and evolution of Heteroptera (Insecta: Hemiptera).</i></p> <p>150. <i>Natural history of <i>Schizodactylus</i> species (Grylloptera: Grylloidea: Schizodactylidae) along river Indus Hyderabad (Sindh), Paksitan.</i></p> <p>151. <i>Impacts of climate change on some Himalayan birds.</i></p> <p>152. <i>Conservation of marine fauna and flora in coastal and offshore waters of Pakistan in wake of International instruments - where we stand?</i></p> <p>153. <i>Import of ornamental fishes – A potential danger to local aquatic biodiversity in Pakistan.</i></p> <p>154. <i>Case study of the collaborative management of wildlife in Pakistan and its success.</i></p> <p>155. <i>Pollinators: The silent, forgotten friends of humanity.</i></p>

	Mr. Habib-ul-Hasan Dr. Inamullah Khan	156. <i>Evolution in marine Crustacea.</i> 157. <i>Secrets waiting to be explored.</i>
<b>37<sup>th</sup> 2017</b>	Dr. Ram C. Bhujel (Thailand) Dr. Qazi Javed Iqbal  Dr. Hasan Huseyin Atar (Turkey) Mr. Abdul Rauf Janjua  Mr. Abdul Shakoor Chaudhry Mr. Zahid.Beg Mirza	158. <i>Conservation and wise use of aquatic and terrestrial animals.</i> 159. <i>Leading role of biologists for the development of bio-fuel sector in Pakistan.</i> 160. <i>Turkish fisheries and aquaculture.</i> 161. <i>Defeating deadly diseases by sensitizing communities: The role universities can play in saving lives of fellow countrymen.</i> 162. <i>Alternatives to antibiotics as feed additives.</i> 163. <i>Study of some anthropogenic negative impacts on the wetland ecology of birds in the Punjab Province of Pakistan.</i>
<b>38<sup>th</sup> 2018</b>	Dr. Wei Miao (China) Dr. Muhammad Perwaiz Iqbal Dr. Telat Yanik (Turkey) Dr. Christine Blattner (Germany) Dr. Muhammad Khan (China)  Dr. Muge Hekimoglu (Turkey) Dr. M. Akram Shah  Dr. Riffat Sultana  Prof. Dr. Abdul Rauf Shakoori	164. <i>The adaptive evolution of Ciliated protozoan.</i> 165. <i>Hypovitaminosis D and coronary artery disease in Pakistan.</i> 166. <i>Future trends for sustainable aquaculture in Turkey.</i> 167. <i>The good and bad of p53.</i> 168. <i>What made alantolactone a lead for anti cancer drug development.</i> 169. <i>Development of aquaculture and aquarium sector in Turkey.</i> 170. <i>Situation analysis of Cutaneous leishmaniasis in Kuwait Teaching Hospital, Peshawar with special reference to perception of Leishmania exacerbating pregnancy.</i> 171. <i>Outstanding characteristics of some classic Orthopteroid species of Pakistan.</i> 172. <i>Role of adhesion proteins in metastasis.</i>

**Annexure-IX. Recipients of Zoologist of the Year Award (1996-2018)**

Sr. No.	Year	Name	University/ Institute
1	1996	Prof. Dr. M.H. Qazi	Quaid-e-Azam Univeristy, Islamabad
2	1996	Prof. Dr. Imtiaz Ahmad	University of Karachi, Karachi
3	1996	Prof. Dr. Abdul Rauf Shakoori	University of the Punjab, Lahore
4	1997	Prof. Dr. Nasima M. Tirmizi	University of Karachi, Karachi
5	1997	Prof. Dr. Fatima Mujeeb Bilquees	University of Karachi, Karachi
6	1997	Prof. Dr. M. Ramzan Mirza	Government College, Lahore
7	1999	Prof. Dr. Syed Naeemul Hassan Naqvi	University of Karachi, Karachi
8	1999	Prof. Dr. M.Anwar Waqar	Aga Khan University, Karachi
9	1999	Mr. Abdul Aziz Khan	National Agriculture Research Center, PARC, Islamabad
10	1999	Dr. Syed Kamaluddin	University of Karachi, Karachi
11	2001	Prof. Dr. Muzammil Ahmed	University of Karachi, Karachi
12	2002	Prof. Dr. M. Sharif Khan	Pennsylvania 19018, USA
13	2003	Prof. Dr. Quddusi B. Kazmi	University of Karachi, Karachi
14	2004	Dr. Syed Azhar Hassan	Pakistan Museum of Natural History, Islamabad
15	2005	Prof. Dr. Mushtaq A. Saleem	Bahauddin Zakariya University, Multan
16	2006	Dr. Sana ullah Khan Khattak	Nuclear Institute of Food & Agriculture, Tarnab, Peshawar
17	2007	Mr. Muhammad Irshad	Pakistan Museum of Natural History, PSF, Islamabad
18	2008	Prof. Dr. M. Khan Lohar	Sindh Agriculture University, Tandojam
19	2009	Prof. Dr. M. Ashfaq	University of Agriculture, Faisalabad
20	2010	Prof. Dr. M. Afzal	University of Sargodha, Sargodha
21	2011	Dr. Aly Khan	Southern Agriculture Research Center, PARC, Karachi
22	2012	Prof. Dr. Javed Iqbal Qazi	University of the Punjab, Lahore
23	2014	Dr. Shamim Akhtar	PMAS-Arid Agriculture University, Rawalpindi
24	2015	Prof. Dr. Abdullah G. Arijo	Sindh Agriculture University, Tandojam
25	2016	Prof. Dr. Nasreen Memon	University of Sindh, Jamshoro
26	2017	Prof. Dr. Muhammmad Ali	Government College University, Faisalabad
27	2018	Prof. Dr. Naeem Tariq Narejo	University of Sindh, Jamshoro

**Annexure-X. Recipients of Life-Time Achievement Award (2003-2018)**

Sr. No.	Year	Name	University/ Institute
1	2003	Prof. Dr. Muzaffar Ahmad	University of Punjab, Lahore
2	2010	Prof. Dr. Abdul Rauf Shakoori	School of Biological Sciences, University of the Punjab, Lahore
3	2010	Prof. Dr. Imtiaz Ahmad	University of Karachi, Karachi
4	2011	Prof. Dr. Mahmood Hussain Qazi	Quaid-i-Azam University, Islamabad
5	2011	Prof. Dr. Mirza Azhar Beg	University of Agriculture, Faisalabad
6	2011	Prof. Dr. Syed Naeem ul Hassan Naqvi	University of Karachi, Karachi
7	2012	Dr. T.J. Roberts	Bangor, North Wales, UK
8	2012	Prof. Dr. Fatima Mujeeb Bilquees	University of Karachi, Karachi
9	2014	Prof. Dr. Abdul Qadir Ansari	Al-Khair University, Islamabad
10	2014	Prof. Dr. Muhammad Sharif Khan	T.I. College, Rabwah
11	2014	Dr. Agha Ikram Mohiuddin	PARC, IIBC, Islamabad
12	2015	Prof. Dr. Shahzad A. Mufti	Advisor COMSATS, Islamabad
13	2015	Prof. Dr. Quddusi B. Kazmi	University of Karachi, Karachi
14	2015	Prof. Dr. M. Ramzan Mirza	Government College University, Lahore
15	2015	Mr. Abdul Aziz Khan	National Agriculture Research Centre, PARC, Islamabad
16	2016	Prof. Dr. M. Saeed Wagan	University of Sindh, Jamshoro
17	2016	Prof. Dr. Muhammad Arsalan	University of Lahore, Lahore
18	2016	Dr. Abdul Aleem Chaudhary	Consultant (Wildlife Management), Lahore
19	2016	Prod. Dr. Afsar Mian	Univeristy of Arid Agriculture, Rawalpindi
20	2016	Mr. Zahid Beg Mirza	Consultant (Wildlife Management), Lahore
21	2017	Mr. Abdul Ghaffar Khan	Consultant (Biological Control), Lahore
22	2017	Dr. Nasreen Muzaffar	University of the Punjab, Lahore
23	2017	Prof. Dr. Syed Shahid Ali	University of Lahore, Lahore
24	2018	Mr. Muhammad Irshad	National Agriculture Research Centre, PARC, Islamabad
25	2018	Prod. Dr. Mushtaq A. Saleem	University of Central Punjab, Lahore

**Annexure-XI. List of Mid-Career Young Researchers to Whom Gold Medals were Conferred by the Society**

**1. Recipients of Prof. A.R. Shakoori Gold Medal (2000-2018)**

S.No	Year	Name	University /Institute
1	2000	Dr. Muhammad Naeem Khan	Department of Fisheries, Punjab
2	2001	Dr. Saeed Akhtar	The Agha Khan University, Karachi
3	2002	Dr. Muhammad Ali	Bahauddin Zakariya University, Multan
4	2003	Dr. Bilquees Gul	University of Agriculture, Faisalabad
5	2004	Dr. Zafar Iqbal	University of Agriculture, Faisalabad
6	2005	Dr. Anjum Perveen	University of Karachi, Karachi
7	2006	Dr. Amjad Javed	University of Massachusertts Medical School, MA, USA
8	2008	Dr. Farah Rauf Shakoori	Government College Univerrisity, Lahore
9	2009	Dr. Asma Saeed	PCSIR, Lahore
10	2010	Dr. Bushra Mirza	Quaid-e-Azam University, Islamabad
11	2011	Dr. Irfan Zia Qureshi	Quaid-e-Azam University, Islamabad
12	2014	Dr. Naveed Ahmed Khan	Agha Kha University, Karachi
13	2014	Dr. Nadeem Sheikh	University of the Punjab, Lahore
14	2016	Dr. Muhammad Ansar	Quaid-e-Azam University, Islamabad
15	2017	Dr. Muhammad. Usman Rashid	Shaikat Khanum Memorial Cancer Hospital and Research Centre, Lahore
16	2018	Dr. Iftikhar Ahmed	National Agriculture Research Centre, PARC, Islamabad

## 2. Recipients of Prof. Mirza Azhar Beg Gold Medal (2001-2018)

S.No	Year	Name	University /Institute
1	2001	Dr. Aleem Ahmed Khan	Bahauddin Zakariya University, Multan
2	2002	Dr. Shahid Mehboob Rana	Government College University, Faisalabad
3	2003	Dr. Muhammad Afzal	University of Agriculture, Faisalabad
4	2004	Dr. Muhammad Ali	Bahauddin Zakariya University, Multan
5	2005	Dr. Farah Rauf Shakoori	Government College University, Lahore
6	2006	Dr. Naeem Tariq Narejo	University of Sindh, Jamshoro
7	2007	Dr. Zakia Khatoon	University of Karachi, Karachi
8	2008	Dr. Muhammad Mahmood-ul Hassan	University of Veterinary and Animal Sciences, Lahore
9	2009	Dr. Abdul Rehman	University of the Punjab, Lahore
10	2010	Dr. Muahmmad Sarwar	Nuclear Institute of Agriculture, Tandojam
11	2011	Dr. Muhammad Hamid Bashir	University of Agriculture, Faisalabad
12	2012	Dr. Muhammad Sajid Nadeem	PMAS-Arid Agriculture University. Rawalpindi
13	2014	Dr. Mukhtar Ahmad Mahar	University of Sindh, Jamshoro
14	2015	Dr. Hafiz Muhammad Tahir	University of Sargodha, Sargodha
15	2017	Dr. Arshad Javid	University of Azad Jammu & Kashmir Muzaffarabad
16	2018	Dr. Shaukat Ali	University of Azad Jammu & Kashmir Muzaffarabad

## 3. Recipients of Prof. Imtiaz Ahmed Gold Medal (2014-2018)

S.No	Year	Name	University /Institute
1	2014	Dr. Shafqat Saeed	Bahauddin Zakariya University, Multan
2	2015	Dr. M. Hamid Bashir	University of Agriculture, Faisalabad
3	2016	Dr. Hafiz Muhammad Tahir	University of Sargodha, Sargodha
4	2018	Dr. Riffat Sultana	University of Sindh, Jamshoro

## 4. Recipients of Prof. Nasima M. Tirmizi Gold Medal (2004-2018)

S.No	Year	Name	University /Institute
1	2004	Dr. Quddusi. B. Kazmi	University of Karachi, Karachi
2	2005	Dr. Itrat Zehra	University of Karachi, Karachi
3	2006	Dr. Feroz Akhter Siddiqui Mangi	University of Karachi, Karachi
4	2007	Dr. Javed Mustaqim	University of Karachi, Karachi
5	2008	Dr. Syed Makhdoom Hussain	NAPHIS, GoP, Islamabad
6	2010	Dr. Shaid Amjad	University of Lasbela, Balochistan
7	2011	Dr. Naureen Aziz Qureshi	Nuclear Institute of Agriculture, Tandojam
8	2015	Dr. Pirzada Jamal A. Siddiqui	University of Karachi, Karachi

**Annexure-XII. List of Position Holder University Students of Zoology  
to whom Gold Medals were conferred**

**1. Recipients of Mujib Memorial Gold Medal  
(M.Sc Zoology, First Position in Parasitology, Karachi University, Karachi)**

S.No	Year	Name
1	1995	Zareen Masood
2	1996	Nargis Fatima
3	1997	Sadaf Khurshid
4	1998	Sadia Huma
5	1999	Tehmina Akram
6	2000	Sadia Abbasi
7	2001	Naushaba Butt
8	2002	Syeda Aisha Ali
9	2003	Noreen Aleemuddin
10	2004	Rakshanda Ahmed
11	2005	Syeda Kiran Batool
12	2006	Sidra Rizwan
13	2007	Nazia
14	2009	Saman Mehboob
15	2010	Hira Shaikh
16	2011	Asra Batool
17	2012	Shumaila Naz
18	2013	Aatika Sikandar
19	2014	Munnazza Khatoon
20	2015	Samina
21	2016	Saba Ishaque
22	2017	Saba Ishaque
23	2018	Yasir Khan

**2. Recipients of Muzaffar Ahmed Gold Medal  
(M. Sc Zoology, First Position in Department of Zoology,  
Punjab University, Lahore).**

S. No	Year	Name
1	1995	Muhammad Saleem
2	1996	Hassam Jodat
3	1997	Waheed A. Din
4	1998	Maqbool A. Zafar
5	1999	Fareeha Irfan
6	2000	Aisha Waqar
7	2001	Nadeem Shaikh
8	2002	Nargis Fatima Zaidi
9	2004	Muhammad Faisal Rehamatulla
10	2005	Erum Gul
11	2006	Uzma Rafi
12	2007	Saira Nazar
13	2008	Ayesha Abdul Majeed
14	2009	Saira Javed
15	2010	Mehwish Riaz
16	2011	Nadia Naeem
17	2012	Shabnam Shezadi
18	2013	Maryam Umer
19	2014	Hina Manzoor
20	2015	Zunaira Siddique
21	2016	Maria Hussain
22	2017	Tayyaba Bibi
23	2018	Sania Nadeem

**3. Recipients of Muhammad Afzal Hussain Qadri Gold Medal  
(M.Sc Zoology, First Position, Karachi University, Karachi).**

S.No	Year	Name
1	1998	Sadia Huma
2	1999	Nusrat Anwar
3	2000	Saima Sajjad
4	2001	Hina Javed
5	2002	Roohi Kanwal
6	2003	(Not Given)
7	2004	Rakshanda Ahmed
8	2005	Muhammad Rais
9	2006	Sidra Rizwan
10	2007	Nazia
11	2008	Amina Ismail
12	2009	Saman Mehboob
13	2010	Nazia Arshad
14	2011	Zainab Najmuddin
15	2012	Sundus Iqbal
16	2013	Saira Bano
17	2014	Munnazza Khatoon
18	2015	Aaisha Siddique
19	2016	Samina
20	2017	Faiqa Afaq
21	2018	Fatima Hasan

**4. Recipients of Ahmed Mohiuddin Memorial Gold Medal  
(M. Sc Zoology, First Position, Sindh University, Jamshoro).**

S.No	Year	Name
1	2002	Tahira Perveen and Yasmeen Laghari
2	2003	Asma Salahuddin Shaikh
3	2004	Fakhra Soomro
4	2005	Moonsa Pira
5	2006	Tehniyat Naz
6	2007	Syeda Nida Fatima Jafri
7	2008	Waris Ali
8	2010	Sobia Aziz
9	2011	Tehmina Kaleem
10	2013	Bakhtawar Soomro
11	2014	Bakhtawar Soomro
12	2015	Shumaila Zahid
13	2016	Mifzala
14	2018	Tahira Noreen

**5. Recipients of S.N.H. Naqvi Gold Medal  
(Ph. D in Zoology, Toxicology, Karachi University, Karachi).**

S.No	Year	Name
1	2002	Dr. Tasneem Akhtar Saqib
2	2005	Dr. Muhammad Zeeshan
3	2006	Dr. Farzana Perveen
4	2007	Not Given
5	2009	Dr. Shahida Perveen
6	2010	Dr. Tahir Ali
7	2011	Dr. Sobia Khwaja
8	2013	Dr. Uzma Mehboob
9	2014	Dr. Samina Arif
10	2015	Dr. Habibullah Rana
11	2016	Dr. Muhammad Ataullah
12	2017	Dr. Musarrat Memon
13	2018	Dr. Farkhanda Iftekhar

#### 6. Recipients of Afsar Mian Gold Medal

(M.Sc Zoology/Biology, First Position, PMAS-Arid Agriculture University, Rawalpindi).

S.No	Year	Name
1	2009	Shaista Bibi
2	2010	Madiha Zahid
3	2011	Ainee Zafar
4	2012	Kiren Mustafa
5	2013	Maira Barkaat
6	2014	Salaha Urooj
7	2015	Shiza Nasreen
8	2016	Syeda Anila Waqar
9	2017	Hira Farhat
10	2018	Saba Mumtaz

#### 7. Recipients of S.S. Akbar Memorial Gold Medal

(M.Sc. Zoology, First Position in Entomology, Sindh University, Jamshoro).

S.No	Year	Name
1	2014	Sarfaraz Ali Sathio
2	2015	Shmila Zahid
3	2016	Mifzala
4	2018	Tahira Norren

#### 8. Recipients of Syed Iftikhar Hussain Jafri Gold Medal

(B.S Freshwater Biology and Fisheries, First Position, Sindh University, Jamshoro)

S.No	Year	Name
1	2017	Dilawar Ali
2	2018	Ahmed Yar

#### 9. Recipients of Muhammad Ali Shah Gold Medal

(M.Sc. Zoology, First Position, G.C. University, Faisalabad).

S.No	Year	Name
1	2018	Beenish Javaid

**10. Recipients of M.A.H. Qadri Memorial Gold Medal  
(Ph.D. Zoology, Parasitology, Karachi University, Karachi) (1995-2017)**

S.No	Year	Name
1	1995	Dr. Nasira Khatoon
2	1996	Dr. Shaheena Jabeen
3	1997	Dr. Farooq Haseeb
4	1998	Dr. Momin Naich
5	1999	Dr. Tabassum Zafar
6	2000	Dr. I. Ihmad
7	2003	Dr. Noor-un-Nisa
8	2006	Dr. Syeda Azra Qamar
9	2008	Dr. Shamsul Islam
10	2010	Dr. Shmim Fatima
11	2013	Dr. Mati-ur-Rehman
12	2014	Dr. Wali Khan
13	2015	Dr. Fozia Batool
14	2016	Dr. Syed M. Hassan Mehdi Naqvi
15	2017	Dr. Erum Khdiya

**11. Recipients of Dr. C.M. Anwar Khan Gold Medal  
(M.Sc. Molecular Biology, P.U. Lahore).**

S.No	Year	Name
1	1996	Bushra Khan
2	1997	Kanwal Naeem
3	1998	Faiza A. Bhatti
4	1999	Fareeha Irfan
5	2000	Amir
6	2001	Fatima Qureshi
7	2002	Shazia Ghafoor

**12. Recipients of Prof. Imtiaz Ahmed Gold Medal,  
(Karachi University, Karachi).**

S.No	Year	Name
1	2001	Hina Afzal
2	2002	Shamshad Kausar
3	2003	Sbia Shabbir
4	2004	Ruqqaya Shahzad
5	2005	Muhammad Zeeshan
6	2006	Hira Ayub
7	2007	Ishtiaq Anjum
8	2008	Shahial Qureshi
9	2009	Javed Iqbal Khan
10	2010	Nimra Qureshi
11	2011	Safia Razzaq



Mr. Abdul Aziz Khan born in 1942, is one of the senior most fellows of the Zoological Society of Pakistan. His association with the society, in different capacities, over a period of more than 50 years, is of immense value, experience and full of passion to the Society. He has been elected office bearer of Executive Council of Zoological Society of Pakistan (ZSP) as Joint Secretary (1985-87), Vice-President (2003-04), Secretary General (2012-25) and Member Executive Council (1995-2001, 2009-12). He graduated as M.Sc. in Zoology from University of the Punjab in 1967 and obtained Master of Environmental Arts and Sciences degree from the University of Wisconsin, USA in 1975.

Mr. Khan is a Vertebrate Pest Management Specialist and Wildlife Ecologist of national as well as of international repute. His salient achievements include the development of a pyrotechnic fumigation device, its delivery system, and a cost effective "Rat Cake" bait of zinc phosphide for the control of porcupines and field rats, respectively. Several chapters of FAO Handbook of Vertebrate Pest Control in Pakistan and Training Manual of USDA/APHIS/DWRC on Vertebrate Pest Management. Mr. Khan to his credit has more than 182 publications and authorship of a monograph on Progress of Vertebrate Pest Management in Pakistan. In recognition of his contributions, he was awarded Hamdard Award and National Farm Guide Gold Star Prize in 1994; Bhutto Agriculture Gold Medal in 1996, Commendation Certificates by USDA, PIMS, PARC Scientists Association and Zoological Society of Pakistan. Mr. Khan was honored by ZSP with the Zoologist of the year Award in 1999 and Life Time Achievement Award in 2015 for his outstanding achievements in the management of Vertebrate Pests.



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