

## **CURRICULUM VITAE**

**DR. S. RAZI ABBAS SHAMSI**  
**Professor Emeritus**  
**Department of Botany**  
**University of the Punjab**  
**Q.A. Campus, Lahore.**

## CURRICULUM VITAE

### 1. PERSONAL

**Name** SYED RAZI ABBAS SHAMSI  
**Father's Name** Syed Muzaffar Hussain Shamsi  
**Date of Birth** April 23, 1940  
**Designation** Professor Emeritus  
**Address** Department of Botany, University of the Punjab, Quaid-e-Azam  
Campus, Lahore-54590, Pakistan  
(Res) 87-88 Mamdot Block, Mustafa Town, Lahore.  
**Telephone** (R) 92-42-35419089, (Cell) 92-300-4739402  
(O) 92-42-99231152-834  
**E-mail** [razishamsi@yahoo.com](mailto:razishamsi@yahoo.com)

### 2. EDUCATIONAL QUALIFICATIONS

**B.Sc.** University of the Punjab, 1960  
**M.Sc. (Botany)** University of the Punjab, 1962  
**Ph.D. (Ecology)** University of London, 1970  
**D.I.C.** Imperial College, London, 1970

### 3. SERVICE RECORD

1962-1963	Lecturer in Botany	West Pakistan Education Service
1963-1973	Lecturer	Botany Department, P.U. Lahore
1973-1982	Assistant Professor	Botany Department, P.U. Lahore
1974-1977	Assistant Professor	Biology Dept., Mosul University, Iraq
1982-1989	Associate Professor	Botany Department, P.U. Lahore
1989-2000	Professor (Retired on 22.04.2000)	Botany Department, P.U. Lahore
1993-1997	Chairman	Botany Department, P.U. Lahore

#### Post retirement

2004-2006	HEC Eminent Professor	Botany Department, P.U. Lahore
2006-2008 & 2011-12	UNEP Consultant	Botany Department, P.U. Lahore
2010-To date	Professor Emeritus	Botany Department, P.U. Lahore

### 4. AWARDS / SCHOLARSHIPS / HONOURS

**1985** Cash Award, Pakistan Science Foundation. Project No. P-PU/Agr(64); for quality research work.  
**1977** Cash award, University of Mosul, Iraq for promoting original research work.  
**1966-70** Govt. of Pakistan- Merit Scholarship for Ph.D studies (U.K)

1960-62 West Pak.Edu.Dept. Merit scholarship for M.Sc. studies  
 1962 Academic Roll of Honour in M.Sc. (G.C. Lahore).  
 1958/60 Certificates of merit in F.Sc. and B. Sc. (G.C. Faisalabad)

## 5. RESEARCH INTERESTS

- 5.1 Ecology; Radiation Biology: Weed Biology  
 5.2. Environmental Pollution  
 i. Water pollution & its impacts on plant growth  
 ii. Monitoring and impact of air pollution on growth & yield of crop plants

## 6. RESEARCH / ACADEMIC VISITS ABROAD

### 6.1. Doctoral

1966-70 Government of Pakistan **Merit Scholarship**  
 Worked at Department of Botany and Plant Technology,  
 Imperial College, London for Ph.D on ecology of weeds.

### 6.2. Post-Doctoral

1988 the Royal Society, London, sponsored two week academic visit to six British universities under Scientists Exchange Agreement with Pakistan Science Foundation, Islamabad.

1991-94 Five Visits to Imperial College, London under **Commission of European Communities (CEC)** Collaborative Research Projects CT90 – 0789 and CT90 - 0865 to study and transfer technology of air pollution monitoring to Pakistan  
 Open top Chamber System (design & operation)Ozone biomonitoring Fluoride monitoring techniquesNO<sub>2</sub> diffusive sampling

1993 **The British Council** sponsored two-week academic visit to seven universities / institutes in U.K. engaged in research on Air Pollution Monitoring and its Impacts.

## 7. RESEARCH PROJECTS COMPLETED AS PRINCIPAL INVESTIGATOR

### 7.1. International

	Title	Sponsoring Agency
1975-77	Effect of Gamma radiation on the growth and yield of two broad bean varieties (1 year study)	Applied Research Centre, Mosul University, Iraq
1991-94	Impact of ambient air pollution on the growth and yield of agricultural crops of Punjab, Pakistan. (CEC Res. Pro. No. CT90-0789) (3 year collaborative project between PU and Imperial College, London)	Commission of the European Communities, (CEC) Brussels

<b>1991-94</b>	Air pollution monitoring in Pakistan, using plants as bio-indicators and static physico-chemical techniques. ( <i>CEC Res. Pro. No. CT90-0865.</i> ) 3 year collaborative project between PU, Imperial College, London and Netherlands	Commission of the European Communities, (CEC) Brussels.
<b>1995-97</b>	The impact and costs of air pollution in developing countries. (1 year collaborative project between PU & Imperial College, London)	British Overseas Development Administration
<b>2006-08</b>	Biomonitoring the impact of tropospheric ozone in Lahore, Pakistan- Punjab under Male' Biomonitoring campaign on the control and prevention of Air pollution in South Asia. 2 year study	UNEP, Regional Resource Center for Asia Pacific, Bangkok, Thailand

## 7.2. National

<b>1980-84</b>	Eco-physiological studies on some important weeds of wheat. (Research Project No. P-PU/Agr. 64) 3 year study	Pakistan Science Foundation, Islamabad.
<b>1985-88</b>	Studies on phenology, germination ecology and control of some important weeds of wheat. (Res. Pro.-P-PU/Agr. 86) 3 year study	Pakistan Science Foundation, Islamabad
<b>1989-91</b>	Ecological studies on natural vegetation of salt affected and water logged areas in Punjab. (Res. Pro. No. SWI-PU/41-W) 3 year study	International water-logging and Salinity research Institute (IWASRI), WAPDA, Lahore, Pakistan
<b>1996-98</b>	The impact of ambient air pollution on the growth and yield of two soybean cultivars, NARC-1 and NARC-II (1 year study)	University of the Punjab, Lahore

## 7.3 Projects in Hand

Chemical (EDU) Protection of Mungbean growth from Tropospheric Ozone

UNEP, Regional Res. Center for Asia Pacific , Bangkok.

## 8. RESEARCH EXPERIENCE

### 8.1 Post-Graduate Research Supervision (1971-2000)

I	Ph.D Degrees Awarded	<b>08</b>
II.	M.Sc Degrees Awarded	<b>85</b>

### 8.2. Details of Published Research Work

Total Published Papers	<b>55</b>
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i. In Impact Factor Journals (HEC)	<b>23</b>
ii. In Peer Reviewed Foreign Journals	04
iii. In Local Refereed Journals	18
iv. In Foreign Reference Books	06
v. Proceedings: International Conferences	04
8.3. Technical Research Reports	
i. International	04
ii. National	04
8.4. Total Impact Factor (based on 2006 JCR Science Edition)	<b>63.545</b>
8.5. Membership of Learned Societies	
i. Pakistan Botanical Society (Life member)	
II The British Ecological Society	
III European Weed Research Society	

## 9. TEACHING EXPERIENCE

Courses taught to various classes from 1963 - to-date:

9.1. Annual Courses (M.Sc.)	
i. Autecology	
ii. Synecology	
iii. Ecosystem	
iv. Applied Ecology	
v. Salinity & Water Logging	
vi. Environmental Geography (Geography Department)	
9.2. Semester Courses (B.Sc. Hons., M.Sc. Hons., M.Phil & Ph.D) (Departments: Botany, MMG, CEES & Sociology)	
i. Environmental Biology	
ii. Air Pollution, Impacts & Control	
iii. Essentials of Microbiology & Bioremediation	
iv. Environmental Molecular Biology	
v. Waste Water Treatment	
vi. Environment & Weapons of Mass Destruction	
vii. Environmental Toxicology	
viii. Environmental Ethics	
ix. Population and Environment	
x. Plant Biodiversity	
xi. Soil Science	
xii. Ecosystem	

## 10. CHAPTERS AUTHORED IN EDITED TEXTBOOKS

i. International	<b>06</b>
ii. National	<b>09</b>

## 11. PARTICIPATION IN CONFERENCES / SYMPOSIA / WORKSHOPS (latest first)

### 11.1. International

### Topic / Conference

- June 2011**  
**Delhi, India**
- Ground Level Ozone and Crop Losses: Pakistan Scenario**  
Sixth Regional Stakeholders cum Regional Co-ordination Meeting of Male' Declaration on Control & Prevention of Air Pollution  
Delhi, India.
- Aug 2008**  
**Colombo, Sri Lanka**
- Tropospheric Ozone Biomonitoring Campaign 2006-08, Pakistan***  
Fifth Regional Stakeholders cum Regional Co-ordination Meeting of Male' Declaration on Control & Prevention of Air Pollution  
UNEP RRC AP, Thailand
- Mar 2008**  
**Bangkok, Thailand**
- Growth Requirements of White Clover and Mung bean for monitoring Ozone Impact***  
Regional Training Workshop "Impact of Air Pollution in Crops", Collaboration of UNEP RRC AP and Stockholm Environment Institute, York, U.K.
- Oct 2007**  
**Male', Maldives**
- Implications of Tropo. Ozone on Agri. Production in Pakistan***  
Fourth Regional Stakeholders cum Regional Co-ordination Meeting of Male' Declaration on Control & Prevention of Air Pollution  
UNEP RRC AP, Thailand
- Aug 2007**  
**Dhaka, Bangladesh**
- Monitoring Impact of Tropo. Ozone on Crops in Lahore, Pakistan***  
Regional training workshop "Impact of Air Pollution in Crops", Collaboration of UNEP RRC AP, Stockholm Environment Institute and Department of Environment, Government of Bangladesh.
- Sept 2006**  
**Stellenbosch (Cape Town), South Africa**
- Monitoring Air Pollution and its Impacts in Pakistan***  
The second Air Pollution Crop Effect Network (APCEN) Workshop "Assessing Air Pollution Impacts on Agriculture", Stockholm Environment Institute, York, U.K.
- Sept 2006**  
**Thimphu, Bhutan**
- Biomonitoring of Air Pollution in Punjab, Pakistan***  
Third Regional Stakeholders cum Regional Co-ordination Meeting of Male' Declaration on Control & Prevention of Air Pollution  
UNEP RRC AP, Thailand
- Oct 2005**  
**New Delhi, India**
- Ozone Biomonitoring in Punjab, Pakistan***  
Second Regional Stakeholders cum Regional Co-ordination Meeting of Male' Declaration on Control & Prevention of Air Pollution  
UNEP RRC AP, Thailand
- Sept 2004**  
**Islamabad, Pakistan**
- Air Pollution Impacts on Crops***  
Regional Stakeholder meeting of Male' Declaration on Control & Prevention of Air Pollution, Collaboration of UNEP RRC AP, Thailand and Ministry of Environment & Urban Affairs, Government of Pakistan, Islamabad.
- Dec 1995**  
**Islamabad, Pakistan**
- The impact of air pollution on crop yields in Pakistan***  
Collaborative Workshop of NARC, Punjab University, Imperial College, London and International Institute for Environment and Development, London.
- Feb 1992**  
**Islamabad, Pakistan**
- National Member***  
Expert Group meeting of SAARC countries on Environment & Population Education  
Ministry of Education, Government of Pakistan, Islamabad.

- April 1991**  
London, U.K. **Participant**  
“Conference on Air Pollution Effects Research (CAPER)”  
Imperial College of Science & Technology, London, U.K.
- Feb 1990**  
Karachi, Pakistan **Temperature Requirements for Seed Germination of some Weeds**  
“Plant life of South Asia”, International Symposium, University of Karachi, Pakistan.
- April 1989**  
Lahore, Pakistan **Participant**  
“Monitoring and Control for Air Pollution in Pakistan”,  
International Seminar: Collaboration of Commission of European Communities, Brussels & Environment and Urban Affairs Division, Government of Pakistan, Islamabad
- Mar 1987**  
Islamabad, Pakistan **Comparative biomass and yield losses of wheat by some competing weeds**  
“PAK-INDO-US Weed Control Workshop”, under collaboration of Pakistan Agricultural Research Council and USDA
- Sept. 1985**  
Karachi, Pakistan **Studies on salt tolerance of purple nutsedge, Cyperus rotundus**  
US-Pakistan Bio-saline Research Workshop, Botany Department, Karachi University, Pakistan in collaboration with Indiana University. Bloomington, USA
- Oct 1984**  
Lahore, Pakistan **Comparative Nitrogen uptake by five weeds competing with wheat at different density levels**  
“Nitrogen and the Environment”, International Symposium / Workshop. Collaboration of NIAB, Faisalabad and U.S. National Science Foundation
- 11.2. National**
- July 2008**  
Lahore, Pakistan **Impact of Tropospheric Ozone on Global Warming and Crop Losses in Pakistan**  
National Capacity Self Assessment Consultative Workshop, UNDP in collaboration with the Ministry of Environment and Associate in Development (pvt.) Ltd.
- Nov 2001**  
Peshawar, Pakistan **Environment and its Problems**  
“Seventh National Conference of Plant Scientists. Pakistan”  
Botanical Society, Botany Department, University of Peshawar, Peshawar.
- Oct 1998**  
Lahore, Pakistan **Participant**  
Sixth National Conference of Plant Scientists. Pakistan Botanical Society, Botany Department, Punjab University, Lahore.
- Nov 1989**  
Islamabad, Pakistan **Herbicide control of some weeds of wheat**  
Second Pakistan Weed Science Conference.  
Pakistan Weed Science Society, NARC, Islamabad.
- Mar 1984**  
Lahore, Pakistan **Member Organizing Committee**  
Second National Conference of Plant Scientists.  
Pakistan Botanical Society, Botany Department, Punjab University, Lahore

April 1982  
Karachi, Pakistan

***Eco-physiology of Epilobium hirsutum & Lythrum salicaria***  
First All Pakistan Conference of Plant Scientists. Pakistan Botanical Society,  
Botany Department, Karachi University.

## 12. INVITED LECTURES

### 12.1. Resource Person

#### 12.1.1. **UGC** sponsored *In-service College Teachers Training Programme* at

- i. Botany Department, Punjab University, Lahore, 1981
- ii. Botany Department, Government College, Lahore, 1985 & 1986
- iii. Education Extension Centre, Lahore, 1987 & 1988
- iv. UGC Sandwich M.Phil Programme, Zoology Dept. PU, Lahore, 1989
- v. U.G.C Regional Centre, Lahore, 1992 & 1995
- vi. F.C. College, Lahore, 1995

#### 12.1.2. **UNESCO** sponsored National Training Workshop on Environmental Education for Master Trainers: ( **CEEP Project**: Ministry of Education, Islamabad) at

- i. Curriculum wing, Ministry of Education, Islamabad, 1983, 87, 89
- ii. Botany Department, AJK University Muzaffarabad, 1986
- iii. B.Z. University, Multan, 1987
- iv. Urdu Science College, Karachi, 1988
- v. Education Extension Centre, Quetta, 1988.

#### 12.1.3. **UNESCO** sponsored National Workshop on Biology Education for preparing Teaching & Training Materials. Ministry of Education, Islamabad. 1983

#### 12.1.4. **British Council** sponsored Workshop for Master Teacher Trainers in Science in collaboration with Ministry of Education, Islamabad, 1984

#### 12.1.5. Editing of "Teachers Guide on Environmental Pollution". **UNESCO – CEEP** project in collaboration with Ministry of Education, ISD. 1990

### 12.2. Faculty Member – Seminars / Summer School

- i. "Eco-physiology of some weeds of wheat"  
"Progress of science and Technology in Pakistan", Seminar organized PSF in collaboration with Association of Pakistani Scientist & Engineers of North America, Dec 1985
- ii. Summer Seminar "General Science".  
**British Council** in collaboration with Ministry of Education, Islamabad, Jul 1987
- iii. Summer School "President Talent Forming Project".  
National Institute of Higher Education, **UGC** in collaboration with B.I.S.E. Lahore. Jul 1987 & Aug 1992

### 12.3. Key-note Address

"Environment and Environmental Problems of Pakistan", Inaugural session, Post-graduate Diploma course in Applied Environmental Sciences, Institute of Geology, University of the Punjab, Lahore, Jan 2000



### 13. ADVISORY, TECHNICAL AND ADMINISTRATIVE EXPERIENCE

#### 13.1. Member, Boards / Committees

##### 13.1.1. National

2011-13 Member, **Board of Governors**, Govt. M.A.O College, Lahore

1986-1996 Member, Technical Committee on Biological Sciences.  
**Pakistan Science Foundation**, Islamabad.

2006-to date Member, Technical Committee on Environmental Sciences.  
**Pakistan Science Foundation**, Islamabad.

##### 13.1.2. University

1987-2000 Elected Member, **Academic Council**, P.U., Lahore.

1989-2000 Elected Member, **Advanced Studies and Research Board**, P.U.

1993-1997 **Convener**, Board of Studies in Botany, P.U., Lahore

1996-1997 Expert Member, **Faculty Board, BZU, Multan**

##### 13.1.3. Technical Expert, Board of Studies in Botany

1987-88 Shah Adbul Latif University, Khairpur, Sindh

1995-2000 University of Baluchistan, Quetta

1996-2000 B.Z. University, Multan

1996-98 University of Azad Jammu & Kashmir, Muzaffarabad

#### 13.2. Reviewer Scientific Papers / Research Projects

1986-88 Pakistan Journal of Botany

1988-96 & **Pakistan Science Foundation**, Islamabad

2006 – to-date

1999 **University Grants Commission**, Islamabad

2004-to-date **Higher Education Commission**, Islamabad

#### 13.3. Curriculum

1985-86 & 1995 Member, National and Select Committees for the revision of "Biology Curricula" for Secondary & Higher Secondary Classes. Curriculum Wing, Ministry of Education, Islamabad.

1991 & 1994 Member, National Committee for the revision of "**Botany Curriculum**" at Graduate and Post-graduate levels. National Institute of Higher Education, University Grants Commission, Islamabad.

#### 13.4. Administrative / Academic

1990-91 Member, Appointment Committee, **B.I.S.E., Lahore**

1994-to-date **Consultant / Expert**, Punjab Public Service Commission, Lahore

2004, 2008 Examiner and Paper setter, **Punjab Public Service Commission, Lahore**