

CURRICULUM VITAE

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EDUCATION

- Ph.D.** **Extension for Natural Resources**
University of Idaho, Moscow, Idaho, USA, 1995.
- MS** **Agricultural Extension and Rural Development**
(International Agricultural Extension and Education)
Utah State University, Logan, USA, 1992.
- Thesis Title:** Agricultural Extension and Technology Transfer in Asia
- M.Sc. (Hons.)** **Agriculture (Soil Science)**
University of Agriculture, Faisalabad, Pakistan, 1982.
- B.Sc. (Hons.)** **Agriculture (Soil Science)**
University of Agriculture, Faisalabad, Pakistan, 1980.

PROFESSIONAL AFFILIATION

- **Member**, Soil Science Society of Pakistan, 1996-present.
- **Member**, Xi Sigma Pi, Epsilon Chapter, Honors Society of Forest Resources Management (Founded at the University of Washington, USA in 1908) Given at the University of Idaho, USA. 1995.
- **Member**, Nova Scotia Institute of Agrologists, Nova Scotia, Canada 2002-present.
- **Professional Agrologist**, Nova Scotia Institute of Agrologists, Nova Scotia, Canada 2002-present.

CURRENT EMPLOYMENT

Professor, Agricultural Extension and Rural Society, King Saud University, Riyadh, Kingdom of Saudi Arabia October 03, 2009 to present date.

ACADEMIC POSITIONS HELD AT VARIOUS UNIVERSITIES

Foreign Professor, Agricultural Sciences, Allama Iqbal Open University, Islamabad. July 28, 2005 to Oct 2, 2009.

Foreign Professor, University of Arid Agriculture, Rawalpindi. Jan 2005 to July 27, 2005.

Research Associate, Plant and Animal Science Department, Nova Scotia Agricultural College, April 22nd, 2002 to August 2002.

Professor (Special Graduate Faculty), School of Environmental Design and Rural Planning, University of Guelph, Guelph, ON **Canada**. January 01 2000 to January 2005.

EMPLOYMENT EXPERIENCE

1. RESEARCH EXPERIENCE

Scientific Officer (Agro-forestry, Environment Extension & Education)

- Pakistan Agricultural Research Council, National Agricultural Research Centre, Park Road, Islamabad, Pakistan
June 1996 to May 1999.
- Worked on planning, executing, monitoring and evaluating projects on rural development.

- Developed model agro-forestry plots to devise appropriate technology, conserve natural resources, improve environment and realize sustainable yields.

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- Worked on the identification and selection of appropriate agro-forestry systems under various agro-climatic zones on the eroded and salt-affected lands.
- Studied the effect of hedgerows on the accompanied agricultural crops and fertility status.

Research Assistant

- Department of Agricultural Systems Technology and Education (ASTE)
Utah State University, Logan, USA. 1990-1992.

Scientific Officer, (Soil Science Extension)

- Pakistan Agricultural Research Council, National Agricultural Research Centre, Park Road, Islamabad, Pakistan. November 1983 to December 1989.
- Worked with the farmers on soil and environmental issues like salinity, water logging, erosion, low fertility, poor crop nutrition, and low crop yields.
- Conducted experiments on identification and selection of salt tolerant crop plants at various growth stages under farmers' field conditions.
- Several studies on reclamation of salt-affected soils using chemical and biological means under field and laboratory conditions were conducted.
- Worked on soil fertility, fertilizer use efficiency and nutrition of various crops under farmer's field conditions to deliver technology to farmers.

Soil Survey Assistant

- Soil Conservation Directorate
Government of the Punjab, Murree Road, Rawalpindi, Pakistan,
March 1983 to November 1983.
- Conducted soil erosion surveys on sloping agricultural lands to conserve soils.
- Learned integrated land use planning techniques and supervised upland conservation activities.
- Conducted surveys, adopted preventive measures to conserve natural resources, and offered recommendations and prepared reports.

2. TEACHING EXPERIENCE

Scientific Officer (Soils Extension)

- National Agricultural Research Centre, Park Road, Islamabad. Pakistan.
September 1983 to December 1989.

Teaching Assistant

- Department of Agricultural Systems Technology and Education (ASTE) Utah State University, Logan, USA.
January 1990 to December 1992.

Teaching Assistant

- Department of Range Resources, University of Idaho, Moscow, USA.
1993 to 1995.

Scientific Officer (Agro forestry & Environment Extension Education)

- National Agricultural Research Centre, Park Road, Islamabad. Pakistan.
June 1996 to May 1999.

Special Graduate Faculty/Visiting Scholar, (Rural Extension)

- School of Environmental Design and Rural Development, University of Guelph, Ontario, N1G 2W1, Canada
January 2000-2005.

ACADEMIC HONORS, PROFESSIONAL AWARDS AND DISTINCTIONS

- **Visiting Faculty**, Sustainable Development Policy Institute, Islamabad. Pakistan.
2002- present.
- **Nominee**, “International Student Leadership Award” University of Idaho, USA.
1995-96.
- **Nominee**, “Outstanding Graduate Student Award” at the College of Forestry, Wildlife and Range Sciences, University of Idaho, USA. 1995.
- **Received** “Outstanding Graduate Student Award” Department of Range Resources, University of Idaho, USA. 1995.

- **Received** an appreciation certificate for planning and executing Third and Fourth Annual Graduate Studies Research Exhibition 1994 and 1995 at the University of Idaho, Moscow, Idaho, USA.
- **Received** an appreciation certificate for serving student community as Secretary, Graduate Student Association (GSA), University of Idaho, Idaho, USA. 1993-94.
- **Honor Roll**, winter quarter, Utah State University, Logan, Utah, USA. 1992.
- **Received** an appreciation certificate for gaining 2nd highest gain on TOEFL, from USAID 1989.
- **Merit scholarship holder**, University of Agriculture, Faisalabad, Pakistan, 1977-1980.

MANAGEMENT TRAINING, SHORT COURSES AND CERTIFICATES WORKSHOPS

- **Workplace hazardous Materials Information Systems (WHMIS) Training.**
Nova Scotia Agricultural College, Canada.
May 2002.
- **Workplace hazardous Materials Information Systems (WHMIS) Training.**
University of Guelph, Guelph, Ontario, Canada.
September 1999.
- **Occupational Health and Safety Act, Policy and Program: Training/Workshop.**
Human Resources Department, Nova Scotia Agricultural College, Canada.
April 2002.
- **First Aid Training Course**
Human Resources Department, Nova Scotia Agricultural College, Canada.
April 2002.
- **Radiation Safety,**
University of Idaho, Moscow, Idaho, USA.
June 1994.
- **Modern Techniques of Soilless Culture.**
British Council, England.
July 1985.

- **Soil and Plant Analyses.**
National Agricultural Research Centre, Pakistan. June 1986.
- **Biometry and Experimental Designs in Agricultural Experiments.**
National Agricultural Research Centre, Islamabad, Pakistan
September 1984.
- **Art of Becoming the Creative Research Scientist.**
National Agricultural Research Centre, Park Road, Islamabad, Pakistan,
June 1984.

SERVICE AND OUTREACH

1. Academic/Professional

Member, Committee on Curriculum Development for M.Sc. Forestry Extension

- Allama Iqbal Open University, Islamabad, Pakistan
1996-1999

Associate Editor, International Journal of Biodiversity – TC –Biodiversity Canada

- Biodiversity – Journal of Life on Earth. Tropical Conservancy, **Ottawa, Canada**
2009 to present.

Associate Editor of International Journal of Agriculture and Biology

- 2009 to todate.

Associate Editor, International Journal of Social Forestry, Indonesia,

- 2008 to todate.

Associate Editor of International Journal of Agricultural Extension, Africa

- 2009 to todate.

Associate Editor, International Journal of Humanities and Social Science (IJHSS) is an open access, peer-reviewed and referred journal published by Centre for Promoting Ideas (CPI), USA.

- Jan 2011 to todate.

Associate Editor, Agricultural Science Research Journal, Ghana

- Jan 2010 to todate.

BioDiCon – Turkey, International Journal on Biological Diversity and Conservation,
Turkey

- Oct 2009- to today.

2. Administrative/Outreach Services

- **Member**, Judicial Committee, University of Idaho, Moscow, Idaho, USA. 1995.
- **Member**, Administration Liaison Committee Graduate Student Association (GSA), University of Idaho, USA. 1994-1995.
- **Member**, Committee on Residential Life, Graduate Student Association (GSA). 1994-1995.
- **Member**, Committee on Third and Fourth Annual Graduate Studies Research Exhibition, 1994 - 1995.
- **Secretary**, Graduate Student Association (GSA), University of Idaho, USA. 1993-94.
- **Editor**, Newsletter of Graduate Student Association (GSA), University of Idaho, 1993-1994.
- **Chairman**, Human Resources Committee, (GSA), University of Idaho, USA

3. Extension Outreach Services

- Worked with the dairy farmers of Nova Scotia to determine the nitrogen and carbon contents of their pastures under various management systems and seasons. April 22nd 2002 to present.
- Worked on soil and water conservation techniques to realize sustainable yields under farmer's field conditions to generate and deliver technology to farmers.
- Worked on soil fertility, fertilizer use efficiency and nutrition of various crops under farmer's field conditions to deliver fertilizer application technology to farmers.
- Actively participated in scientific, technical, research and developmental studies with farmers in Pakistan to deliver the message to the end users effectively.
- Through effective extension strategies and approaches promoted environmental friendly technologies to have clean environment, adopt cost-effective technologies and build sustainable communities.
- Helped farmers to learn and apply sustainable and environment friendly practices on their lands.
- Wrote extension papers and facts sheets to benefit the farming community, designed extension and educational programs, promoted extension work and technology transfer activities in the country.
- Organized workshops, training courses and seminars for the farmers and others.

SOCIAL AND CULTURAL PROGRAMS

- Founded **Multicultural Council of Ontario** at the Province level in Canada and was elected its President.
- Held many events to promote international friendship at the universities, I attended.
- Was honoured on behalf of the Legislature of Ontario and received **“Appreciation Certificates”** twice for outstanding services to the Ontarions and promoting multiculturalism.
- Received **“Appreciation Letters”** from the Hon. Canadian Premier, Parliamentarians and Ambassadors of different countries.
- In the history of 175 years of the Guelph City, was named as the first Asian who ran for the public office in Canada.

SCHOLARLY PUBLICATIONS AND PRESENTATIONS

A. REFEREED JOURNAL ARTICLES

- Al-Shayaa, M.S., Mirza B. Baig, and G.S. Straquadine. 2012. Agricultural Extension in the Kingdom of Saudi Arabia: Difficult Present and Demanding Future. *The Journal of Animal & Plant Sciences* Vol. 22(1): 239-246. ISSN: 1018-7081.
- Shalaby, Mohamed Youssef., Mirza B. Baig and M.S. Al-Shayaa. 2011. Agricultural Extension in Egypt: Issues and Options for Improvement. *Arab Gulf Journal of Scientific Research, Bahrain*. Vol. 28(4): 205-213
- Shalaby, Mohammad Youssef., Mirza Barjees Baig and Gary S. Straquadine. 2011. Threats and Challenges to Sustainable Agriculture and Rural Development in Egypt: Implications for Agricultural Extension. *Journal of Animal and Plant Sciences*. 21(3): 581-588.
- Khodran, H. Al-Zahrani and Mirza B. Baig. 2011. Water in the Kingdom of Saudi Arabia: Sustainable Management Options. *The Journal of Animal & Plant Sciences*, 21(3): 601-604.
- Khodran, H. Al-Zahrani, M. Shayaa Al-Shayaa and Mirza B. Baig. 2011. Water Conservation in the Kingdom of Saudi Arabia for Better Environment: Implications for Extension and Education. *Bulgarian Journal of Agricultural Science*. Vol. 17 (3): 389-395

Baig, Mirza B., and Gary Straquadine 2011. Sustainable Agriculture Ensures Sustainable Rural Development: A Reality or A Myth. **Chapter 3** in Global Food Insecurity: Rethinking Agricultural and Rural Development Paradigm and Policy. Co-edited by Mohamed Behnassi and Sidney Draggan to be published by Springer, Netherlands. pp 21-32.

Shalaby, Mohammed Youssef, and **M. B. Baig, 2010**. Rural development in Egypt: threats and challenges. Banat University of Agricultural Sciences and Veterinary Medicine, Timisoara, Romania. *Lucrări Științifice: Management Agricol. Seria I, Vol. XII (2)*. pp 169-182. ISSN:14531410. Available at http://www.usab-tm.ro/pdf/2010/management_2010.pdf

Baig, Mirza B., Shabbir Ahmad, Gary S. Straquadine. 2010. Management of sustainable rural development in Pakistan: Possible options. Banat University of Agricultural Sciences and Veterinary Medicine, Timisoara, Romania. *Lucrări Științifice: Management Agricol. Seria I, Vol. XII (II)*. pp 509-522. ISSN:14531410

Baig, Mirza B., and Faisal Sultan Al-Subaiee. 2009. Biodiversity in Pakistan: Key Challenges. *International Journal of Biodiversity, Ottawa, Canada. Vol. 10 No. 4*. Pp 20-29.

Baig, Mirza B., Faisal Sultan Al-Subaiee and Gary S. Straquadine. 2009. Role of Agricultural Extension in Sustainable Rural Development in Pakistan. Banat University of Agricultural Sciences and Veterinary Medicine, Timisoara, Romania. *Lucrări Științifice: Management Agricol. Seria I, Vol. XI (1)*. pp 291-308. ISSN: 14531410

Baig, M.B., Shabbir Ahmed, Nowshad Khan and Muhammad Khurshid. 2008. Germplasm conservation of multipurpose trees and their role in agroforestry for sustainable agricultural production in Pakistan. *Int. J. Agric Biol. Vol. 10 No. 3* pp 340-348.

Baig, M.B., Shabbir Ahmed, Nowshad Khan and Gary Straquadine. 2008. History of social forestry in Pakistan: An overview. *Int. J. Social Forestry. Volume 1, Number 2, December 2008*

Baig, M.B., Zahur Ahmed Shabbir Ahmed, and Gary Straquadine. 2008. Sustainable local community development and peoples' participation in rural Pakistan. Accepted for publication in *J. of Rural Development and Admn.*

Baig, M.B., and Moin Ahmed. 2007. Biodiversity in Pakistan: Status: Challenges and strategies for its conservation. *International Journal of Biol. and Bio-Tech. Vol. 4 No. 4* pp 283-292.

- Memon, S.Q., **Baig, Mirza B.**, and Mari, G.R. 2007. Tillage practices and effect of sowing methods on growth and yield of maize crop. Czech University of Agriculture, Prague. **Agricultura Tropica Et Subtropica, Vol. 40 No. 3 pp 89-100**
- Baig, M.B.** 2007. Role of **Sustainable Agriculture in Rural Development in Pakistan: Some Thoughts**. Journal of Rural Development and Administration (JORDA). Vol. XXXVII No. 1 &2. pp 1-10.
- Baig, M.B.**, Sardar Riaz. A. Khan and Shabbir Ahmad. 2007. Water management and harvesting strategies. Journal of Social Sciences and Humanities. Vol. XV. No. 2 pp 91-103.
- Baig, M.B.** and Moin Ahmed. 2007. Germplasm Conservation and Multipurpose Plants for Farming System in Pakistan. International Journal of Biol. and Bio-Tech. Vol. 4 No. 2-3. pp 95-107
- Baig, M.B.**, and M.S. Zia. 2006. Rehabilitation of problem soils through environmental friendly technologies – II: Effect of Sesbania (*Sesbania aculeata*) and gypsum. Czech University of Agriculture, Prague. Agricultura Tropica Et Subtropica, Vol. 39 No. 1:23-30.
- Baig, M.B.**, and N. Khan. 2006. Rural Development in Pakistan: From vision to action. *In*. The Rural Citizen: Governance, culture and well being in the 21st Century. Published by the University of Plymouth, Plymouth, UK. ISSN 1-84102-155-5
- Baig, M.B.**, M.S. Zia, N. Sombathova and A. Zaujec. 2005. Rehabilitation of problem soils through environmental friendly technologies: Role of Sesbania (*Sesbania aculeata*) and Farm yard manure. Czech University of Agriculture, Prague. Agricultura Tropica Et Subtropica, Vol. 38 No. 1:12-17.
- Baig, M.B.**, M.S. Zia, N. Sombathova and A. Zaujec. 2005. Rehabilitation of problem soils through environmental friendly technologies: Role of Sesbania (*Sesbania aculeata*) and Phosphorus. Czech Univ. of Agric. Prague. Agricultura Tropica Et Subtropica, Vol. 38 No. 1:17-21.
- Baig, M.B.**, G. S. Straquadine and M.R. Whiteman. 2005. Assessing probable success by applying Roger's "Diffusion of innovations" theory to agro forestry. International Journal of Agriculture and Biology. Vol. 07 No. 06:1040-1043. (<http://www.ijab.org>)

Zia, M.S., T. Mahmood, **M.B. Baig**, and M. Aslam. 2004. Land and environmental degradation and its amelioration for sustainable agriculture in Pakistan. *Sci. Vision*. Vol. 9 No. 1-2 & 3-4: 21-25.

Zia, M.S., M. Aslam, **M.B. Baig**, and A. Ali. 2000. Fertility issues and fertilizer management in rice-wheat system: A Review. *Science Vision*. Vol. 5 No. 4:59-73.

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Akbar, G., M.B. Baig and Mohammed Asif. 2000. Social aspects in launching successful agro forestry projects in developing countries. *Science Vision*. Vol. 5 No. 4:52-58.

Zia, M.S., M. Aslam, M.B. Baig, and A. Ali. 2000. Fertility issues and fertilizer management in rice-wheat system: A Review. *Science Vision*. Vol. 5 No. 4:59-73.

Zia, M. Sharif, **M. B. Baig** and M.B. Tahir. 1999. Ionic concentration and toxicity of sodium, chlorides and sulphur in sorghum. *Sci. Technology & Development* Vol. 18(2): 35-38.

Zia M. Sharif, **M. B. Baig** and M.B. Khan. 1999. Dynamics of soil electro-characteristics under submerged rice soils, *Quarterly Science Vision* Vol. 5(2): 47-53.

Akbar, G., **Mirza B. Baig** and M. I. Sultani. 1999. Sustainable rangeland management in upland Balochistan: A challenging frontier. *Jour Science Vision* 5(1): 35-41.

Baig., Mirza B., G. Akbar, Gary S. Straquadine and A. Razzaq. 1999. Agro forestry extension and technology transfer to farmers in Pakistan. *Jour Science Vision* 5(1): 42-50.

Baig, Mirza B., Zia, M. Sharif, and M. B. Tahir 1999. Soil environmental issues and their impact on agricultural productivity of low potential areas of Pakistan. *Science Vision, An Intl. Quarterly Jour. of COMSATS*. Vol. 4 (3):56-60

Straquadine, G.S., **M.B. Baig**, and G. Akbar. 1999. Transfer of technology: From acceptance to action in international agro forestry development. *Science Vision*. 4 (3):36-43.

Baig, M.B., G.S. Straquadine, C. H. Antholt, W.S. Sleight, and J.O., W.S. Sleight, and J.O. Derry. 1999. Agricultural extension and Technology transfer in Asian countries: A review of the key issues. *Science Technology and Development*. Vol. 18 (3):39-50.

Baig, M.B. and M.R. Whiteman. 1999. Factors facilitating or impeding success of agro forestry projects in developing countries. *Science Technology and Development*. Vol. 18 (4):9-14.

Akbar, G., S. N. Mirza and **Mirza B. Baig**. 1999. Assessment of current ecological features of

vegetation and sustainable use of mountain rangelands in Balochistan. Jour. Science Vision 4 (4): 33-39.

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Baig, M. B., M. Sharif Zia, M.T. Rashid, M. Aslam, M. Salim and M.B. Tahir. 1998. Sorghum growth and chemical composition as influenced by potassium fertilization and moisture regimes. Pak. J. Soil Sci. 15:93-97 (ISSN1019-729X).

Baig, M.B., M.A. Khan and M.I. Sultani. 1998. Agro forestry as a farming system in Pakistan: Potential and problems. Science Vision. 3:25-34.

Zia, M. Sharif, **Mirza, B. Baig** and M.B. Tahir, 1998. Soil environmental issues and their impact on agricultural productivity of high potential areas of Pakistan. Science Vision. An Intl. Quarterly Jour. of COMSATS. Vol. 4(2):56-62.

Zia, M. Sharif., **Mirza B. Baig**, M.B. Tahir and M. Yasin. 1998. Sustaining crop yields through fertilizers: A reality. Science Vision. Vol. 4(2):31-40.

Baig, M.B., M.S. Zia, M.T. Rashid, M. Aslam, M. Salim and M.B. Tahir. 1998. Sorghum growth and chemical composition as influenced by potassium fertilization and moisture regimes. Pak. J. Soil Sci.15:84-88

Tahir, M.B., Rohul Amin and **M.B. Baig**. 1998. Soil test methods for determining the nitrogen fertilizer requirement for rain fed crops in Pakistan. Science, Technology and Development 17:37-43.

Zia, M.S., M. Aslam, Rahmatullah, M.B. Khan and **M.B. Baig**. 1998. Assessment of nitrogen availability in calcareous soils under rice based cropping systems. Pak. J. Soil Sci.15:166-173.

Amin, Rohul., **M.B. Baig** and M.B. Tahir. 1998. Rapeseed response to different rates of sulfur application in rain fed areas of Pakistan. Science Vision. 4:60-62.

Amin, Rohul., **M.B. Baig** and M.B. Tahir. 1998. Phosphorus placement effects on yield and P uptake by corn under rain fed conditions. Science Vision. 4:68-72.

Akbar, G., **M.B. Baig**, M.S. Zia and Aziz Ahmed. 1998. Innovative technologies for sustainable crop yields and amelioration of Environment in Pakistan. Agridigest. Nov-Dec.12-18.

Zia, M.S., **M.B. Baig** and M.B. Tahir. 1998. Soil environmental issues and their impact on agricultural productivity of high potential areas of Pakistan. Science Vision. 4:56-61.

Zia, M. Sharif, M. Aslam, Rahmatullah, M.B. Khan, **M.B. Baig** and Ashraf Ali, 1998. Assessment of nitrogen availability in calcareous soils under rice based cropping system. Pak. J. Soil Sci., 15: 166-173 (ISSN1019-729X).

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Zia, M.S., **M.B. Baig**, M. Aslam, and Zahid Saeed. 1997. Fertilizer management and use efficiency under rainfed agriculture. (International Journal) Science, Tech. and Development. 16:24-28.

Baig, M.B., and J.H. Ehrenreich. 1996. The potential, prospects and problems of agro forestry in Pakistan-1: Research and development. Idaho Forester. A publication of College of Forestry, Wildlife and Range Sciences, University of Idaho, Moscow, Idaho, USA. Pp. 65-66.

Zia, M.S., M. Salim, Rahmatullah, **M.B. Baig**, and M. Aslam. 1995. Evaluation of sulfur fertility of soils under rice based cropping sequences and response to sulfur application. Agrochemica, Italy. 39:260-279.

Zia, M.S., A. Ali, F. Hussain, M. Aslam, and **M.B. Baig**. 1994. Soil nitrogen availability indices for nitrogen nutrition of calcareous lowland rice soils. Pak. J. Agric. Sci. 9:18-22.

Zia, M.S., Rahmatullah, **M.B. Baig**, and M. Aslam. 1992. Phosphorus fixation by different clay minerals as affected by phosphorus sources and water regimes. Pak. J. Agric. Sci. 29:162-165.

Baig, M.B., M.S. Zia, and M. Salim. 1990. Micronutrient status of selected benchmark soils in Punjab and their relationship with soil properties. Pak. J. Agric. Sci. 27:39-42.

Niazi, B.H., M. Ahmad, and **M.B. Baig**. 1989. Efficiency of two sources of zinc on wheat growth under saline-sodic conditions. Geobios. 16:49-52.

Niazi, B.H., M. Ahmad, and **M.B. Baig**. 1989. Efficiency of two sources of zinc on the uptake of ions in wheat under saline-sodic conditions. Pak. J. Agric. Res. 16:323-330.

Rehman, A., I. Ahmed, A.M. Ranjha, and **M.B. Baig**. 1988. Effect of zinc on the nitrogen uptake in rice IR-6 from different sources. The Nucleus, 25:31-34.

Ranjha, A.M., **M.B. Baig**, I. Iqbal, A. Jabbar, and M.B. Tahir. 1987. Micronutrient status of soils in Thickriwala Project Area of Faisalabad District. Pak. J. Sci. and Ind. Res. 30:100-102.

Baig, M.B., S. Ali, A.M. Ranjha, A. Ghafoor, and M.B. Tahir. 1987. Comparison of methods of available micronutrients (Cu, Zn, Mn) from soil. Pak. J. Sci. and Ind. Res. 30:657-659.

Ranjha, A.M., **M.B. Baig**, I. Ahmed, and A. Ghafoor. 1986. Effect of nitrogen and zinc on the yield and chemical composition of wheat. *J. Sci. and Tech.* 10:91-93.

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Zia, M.S., **M.B. Baig**, M. Munsif and M.B. Tahir. 1986. Nutrient deficiencies in lowland rice. *Progressive Farming.* 6:36-39.

Zia, M.S., M.A. Khan, and **M.B. Baig**. Management of salt-affected soils in Pakistan. *Progressive Farming.* 6:24-29.

Ranjha, A.M., **M.B. Baig**, and A. Jabbar. 1986. Effect of vanadium and nitrogen on the chemical composition of rice. *Pak. J. Sci. and Ind. Res.* 29:209-212.

Ahmed, R., A.M. Ranjha, **M.B. Baig**, and A. Ghafoor. 1985. Optimum fertilization of Tobacco. *Pak. Tobacco.* IX:15-19.

B. PAPERS PUBLISHED IN PROCEEDINGS

Baig, M.B. and Shabbir Ahmed. 2007. Role of Distance Education in Promoting Forestry Extension in Pakistan: Problems and Prospects. *In. Proc. of the First Global workshop on Improving Forestry Education.* The World Agroforestry Centre, Nairobi, Kenya. September 2007. pp 324-332

Baig, Mirza B., A. H. Malik, and M. Sharif Zia. 2007. Innovative Technologies for Sustainable Management of Degraded Lands and for better Agriculture. Paper published in the International Proc. *In. Environmentally Sustainable Development (ESDev-2007 CIIT)* August 26-28, COMSATS, Abbottabad, Pakistan. Pp 627-634.

Baig, M.B., Sardar Riaz. A. Khan and Amir H. Malik. 2007. Enhancing water-use efficiency through innovative technologies in Pakistan”. Paper published in the International Proc. *In. Environmentally Sustainable Development (ESDev-2007 CIIT)* August 26-28, COMSATS, Abbottabad, Pakistan. Pp 829-834.

Baig, M.B., Sardar Riaz. A. Khan and Amir H. Malik. 2007. Combating Drought through Innovative Technologies: Water Management Strategies for Sustainable Crop Production. Paper published in the International Proc. *In. Environmentally Sustainable Development (ESDev-2007 CIIT)* August 26-28, COMSATS, Abbottabad, Pakistan. Pp 847-852.

Baig, M.B., Ghulam Akbar and Amir H. Malik. 2007. Sustainable Strategies to Reclaim Sandy Desert of Cholistan Opportunities and Perspectives. Paper published in the International Proc. *In*. Environmentally Sustainable Development (ESDev-2007 CIIT) August 26-28, COMSATS, Abbottabad, Pakistan. Pp 1137-145.

MIRZA B. BAIG (PAGE 15)

Baig, M.B., and Moin Ahmed. 2007. Effect of Climatic Change on Agricultural and Forestry Systems of Pakistan. A paper contributed in an international seminar/ workshop on Dendrochronology and its scope in South Asia. May 14-18, 2007. Held at the Federal Urdu University of Arts, Science and Technology, Gulshane-e-Iqbal Campus, Karachi, Pakistan

Aslam, M., **M.B. Baig**, and M.S. Zia. 1998. Fertilizers enhance crop yields and cause environmental pollution: A reality or a myth. Proc. Int. symp. on Agro-environmental issues and future strategies towards 21st century. Pp 211-214. Univ. of Agric. Faisalabad, Pakistan 25-30 May, 1998.

Baig, M.B., M.S. Zia, M. Aslam, and M.B. Tahir. 1998. Soil environmental issues and their impact on agricultural productivity of high potential areas of Pakistan. Proc. Int. Symp. on Agro-environmental issues and future strategies towards 21st century. pp Univ. of Agric. Faisalabad, Pakistan 25-30 May, 1998.

Zia, M.S., **M.B. Baig**, M. Aslam, and M.B. Tahir. 1998. Soil environmental issues and their impact on agricultural productivity of low potential areas of Pakistan. Proc. Int. Symp. on Agro-environmental issues and future strategies towards 21st century. Pp 281-286 Univ. of Agric. Faisalabad, Pakistan 25-30 May, 1998.

Mahmood, T., **M.B. Baig**, and M.S. Zia. 1998. Innovative technologies for sustainable crop yields and amelioration of environment in Pakistan. Proc. Int. Symp. on Agro-environmental issues and future strategies towards 21st century. pp 223-228. Univ. of Agric. Faisalabad, Pakistan 25-30 May, 1998.

Baig, M.B., M.S. Zia, M. Aslam, F. Hussain, and J.H. Ehrenreich. 1995. Rice response to phosphorus on a saline-sodic soil as influenced by *Sesbania* (*Sesbania aculeata*). p. 40-46. In. J.H. Ehrenreich (Eds.) Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Whiteman, M.R., **M.B. Baig**, and J.H. Ehrenreich. 1995. Factors facilitating or impeding success of agro forestry projects in developing countries. p. 108-110. In. J.H. Ehrenreich (Eds.) Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Whiteman, M.R., **M.B. Baig**, and J.H. Ehrenreich. 1995. Assessing probable success: Applying Roger's "Diffusion of innovations" theory to agro forestry. p. 115-117. In. J.H. Ehrenreich (Eds.) Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

MIRZA B. BAIG (PAGE 16)

Straquadine, G.S., **M.B. Baig**, and J.H. Ehrenreich. 1995. Transfer of technology: From acceptance to action in international development. p. 110-114. In. J.H. Ehrenreich (Eds.) Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Baig, M.B., and J.H. Ehrenreich. 1995. Agro forestry extension and technology transfer to farmers in Pakistan. p. 102-107. In. J.H. Ehrenreich (Eds.) Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Baig, M.B., and J.H. Ehrenreich, G.S. Straquadine, W.S. Sleight, and J.O. Derry. 1995. Agricultural extension and transfer of technology in Asian countries. p. 118-123. In. J.H. Ehrenreich (Eds.) Fourth North American Agro forestry Conf. 23-28 July, Boise, ID, USA.

Baig, M.B., and J.H. Ehrenreich. 1993. Promoting agro forestry through extension: A Pakistan example. p. 283-286. In. R.C. Schultz and J.P. Colletti (Ed.) Third North American Agro forestry Conf. Ames, Iowa, USA.

Zia, M.S., M.I. Nizami, M. Salim, and **M.B. Baig**. 1990. Impact of variable bulk density of a Krasnozem soil on maize. p. 219-223. In. M.E. Akhtar and M.I. Nizami (ed.) Soil physics application under stress environments. BARD. Pak. Agric. Res. Council, Islamabad. Pakistan

Zia, M.S., M. Yasin, **M.B. Baig**, M.I. Bhatti. 1990. Ionic concentrations and toxicities of sodium chloride and sulfur in sorghum. p. 224-248. In. Rafiq et al. (Ed.) Soil for agric dev. Proc. 2nd National Cong. Soil Sci. Soc. Pakistan, Faisalabad, Pakistan.

Ahmad, M., M. Athar, and **M.B. Baig**. 1986. Response of legumes to salt stress: Effect on growth and nitrogen status of lentil (*Lens culnaris*). p. 53-67. In. R. Ahmad and San Petro (ed.) Prospects for Biosaline Research. Proc. US-Pakistan Biosaline Workshop. Karachi, Pak

Baig, M.B., M. Ahmad, B.H. Niazi, and M.B. Tahir. 1985. Screening of Barley (*Hordeum vulgare L.*) for salt tolerance. p. 68-86. In. M. Ahmad and B.H. Niazi (ed.) Workshop on Biosaline Research in Pakistan, National Agricultural Research Centre, Islamabad. Pakistan.

Niazi, B.H., M. Ahmad, and **M.B. Baig**. 1985. A comparative study for salt tolerance of *Cynodon dactylon* and *Paspalum distichum*. p. 87-95. In. M. Ahmad and B.H. Niazi (ed.) Workshop on Biosaline Research in Pakistan, National Agricultural Research Centre, IDB.

MIRZA B.BAIG (PAGE 17)

Ahmad, M., B.H. Niazi, and **M.B. Baig**. 1985. HCl for reclamation of saline-sodic soil. p. 121-128. In. M. Ahmad and B.H. Niazi (ed.) Workshop on Biosaline Research in Pakistan, National Agricultural Research Centre, Islamabad.

Niazi, B.H., **M.B. Baig**, and M. Ahmad, 1985. Effect of various types of salinity agents on germination and growth of rice. p. 53-67. In. M. Ahmad and B.H. Niazi (ed.) Workshop on Biosaline Research in Pakistan, National Agricultural Research Centre, Islamabad.

CONFERENCE AND PROFESIONAL SOCIETY PRESENTATIONS

Baig, M.B., Douglas Pletsch and Jana Jekram 2000. Agro forestry extension for salt-affected soils of Pakistan - A proposed plan. A paper presented at the Int. Symp. on Saline Agriculture. National Agricultural Research Centre, Pakistan 14 -16 Aril, 2000.

Baig, M.B. and M.S. Zia. 1998. Fertilizers enhance crop yields and cause environmental pollution: A reality or a myth. Presented at the Int. Symp. on Agro-environmental issues and future strategies towards 21st century. Univ. of Agric. Faisalabad, Pak 25-30 May, 1998.

Baig, M.B., M.S. Zia, M. Aslam, and M.B. Tahir. 1998. Soil environmental issues and their impact on agricultural productivity of high potential areas of Pakistan. A paper presented at the Int. symp. on Agro-environmental issues and future strategies towards 21st century. Univ. of Agric. Faisalabad, Pakistan 25-30 May, 1998.

Baig, M.B., Zia, M.S., M. Aslam, and M.B. Tahir. 1998. Soil environmental issues and their impact on agricultural productivity of low potential areas of Pakistan. A paper presented at the Int. Symp. on Agro-environmental issues and future strategies towards 21st century. Univ. of Agric. Faisalabad, Pakistan 25-30 May, 1998.

Mahmood, T., **M.B. Baig**, and M.S. Zia. 1998. Innovative technologies for sustainable crop yields and amelioration of environment in Pakistan. A paper presented at the Int. Symp. on Agro-environmental issues and future strategies towards 21st century. Univ. of Agric. Faisalabad, Pakistan 25-30 May, 1998.

Baig, M.B., M.A. Khan M.I. Sultani. 1997. Role of multi-purpose tree species (MPTS) in achieving sustainable crop yields and food security in South East Asia. A paper contributed to Int. Symp. on role of germplasm in food security in South East Asia, held at the National Agricultural Research Centre, Islamabad, sponsored by Japan Int. Coop. Agency (Jica).

MIRZA B. BAIG (PAGE 18)

Baig, M.B., M.S. Zia, M. Aslam, F. Hussain, and J.H. Ehrenreich. 1995. Effect of *Sesbania (Sesbania aculeata)* and farmyard manure on rice under saline-sodic soil conditions. A paper presented at the Fourth North American Agro forestry Conf. 23-28 July, Boise, USA.

Baig, M.B., M.S. Zia, M. Aslam, F. Hussain, and J.H. Ehrenreich. 1995. Effect of *Sesbania (Sesbania aculeata)* and gypsum application on rice under saline-sodic conditions of Pakistan. A paper presented at the Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Baig, M.B., and J.H. Ehrenreich. 1995. The prospects and problems of agro forestry in Pakistan. A paper presented at the Fourth North American Agro forestry Conf. 23-28 July, Boise, USA.

Baig, M.B., M.S. Zia, M. Aslam, F. Hussain, and J.H. Ehrenreich. 1995. Rice response to phosphorus on a saline-sodic soil as influenced by *Sesbania (Sesbania aculeata)*. A paper presented at the Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Whiteman, M.R., **M.B. Baig,** and J.H. Ehrenreich. 1995. Factors facilitating or impeding success of agro forestry projects in developing countries. A paper presented at the Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Whiteman, M.R., **M.B. Baig,** and J.H. Ehrenreich. 1995. Assessing probable success: Applying Roger's "Diffusion of innovations" theory to agro forestry. A paper presented at the Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Straquadine, G.S., **M.B. Baig,** and J.H. Ehrenreich. 1995. Transfer of technology: From acceptance to action in international development. A paper presented at the Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Baig, M.B., J.H. Ehrenreich, G.S. Straquadine, W.S. Sleight, and J.O. Derry. 1995. Agricultural extension and transfer of technology in Asian countries. A paper presented at the Fourth North American Agro forestry Conf. 23-28 July, Boise, Idaho, USA.

Baig, M.B., and J.H. Ehrenreich. 1993. Promoting agro forestry through extension: A Pakistan example. A paper presented at the Third North American Agro forestry Conf., Iowa, USA.

Baig, M.B., M. Ahmad, B.H. Niazi, and M.B. Tahir. 1985. Screening of Barley (*Hordeum vulgare L.*) for salt tolerance. A paper presented at the Workshop on Biosaline Research in Pakistan, National Agricultural Research Centre, Islamabad.

MIRZA B. BAIG (PAGE 19)

C. SPECIAL PUBLICATIONS

Zia, M.S., M. Arshad, M. Aslam, **M.B. Baig,** and Zahid Saeed. 1997. Fertility issues and fertilizer management in rice-wheat systems. **FAO Publication.** Farm Management Notes for Asia and Far East. Thailand. Bangkok.23:36-50.

Rashid, A., F. Hussain, **M.B. Baig,** and N. Bughio. 1994. Soil fertility status of experimental area at National Agricultural Research Centre, Islamabad: Basic information for research experiments. Special publication produced by Pakistan Agricultural Research Council, Islamabad, Pakistan.

D. BOOKS

Baig, Mirza B. 2006. Natural Resource Management in Pakistan. A textbook prepared for the M.Sc. Rural Development students (in progress, passing through editing process).

Baig, Mirza B. 2006. Glossary for Natural Resource Management. A text guide prepared for the beginners, students, academics, planners, policy makers and NGOs workers (in progress).

Baig, Mirza B. 2006. Handbook on Scientific and Technical Writing. A text guide prepared for the beginners, students and academics (in progress).

REFERENCES

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