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- USA. (July 1991 and October 1986)
- Agriculture Canada, Central Experimental Farm, Ottawa, Agricultural Research Station, Saskatoon and Grain Research Laboratories, Canadian Grain Commission, Winnipeg, Canada (July 1991 and July 1984)
- International atomic energy agency, agricultural research laboratories, seibersdorf, Austria (October 1986).
- International Crops research institute for semi arid tropics (ICRISAT), Hyderabad; India (January 1988).
- International Maize and Wheat Improvement Centre, (CIMMYT), Mexico City (October 1986).
- International Centre for Agricultural Research in Dry Areas (ICARDA), Aleppo, Syria (April 1984).
- National Institute of Agricultural Botany (NIAB), Cambridge and Natural Resources Institute (NRI), Chatham, Kent, and Tropical Development and Research Institute, London, England, (July 1991, Oct 1986).
- National Institute of Animal Sciences, Copenhagen, Denmark (June 1977 – October 1978).
- FAO Headquarters, Rome, Italy for briefing (Nov 1978) and debriefing (June 1979) on Sudan Nutrition Project.
- Swedish Seed Association, Svalov and University of Lund, Malmo, Sweden (July 1977).
- Central Institute for Nutrition and Food Research (TNO), Zeist, Holland (December 1977).
- Institute for Physiologie, Physiologische Chemie, Universitate, Munich, Germany (December 1977).
- Institute National de la Recherche Agronomique, Laboratoire D' Etude de Metabolisme, Zote, Beaumont, France (December 1977).

#### **IV. Establishment of Institution/ System**

- Established Central Research Laboratories and developed research monitoring and evaluation system at National Agricultural Research Centre, Islamabad.
- Establishment of Food quality research Laboratories at Agricultural research Station, Rumais, Muscat, Sultanate of Oman.
- Established Human Nutrition Department at University of Agricultural, Faisalabad, Pakistan.
- Establishment of Nutrition Planning Unit in the Ministry of Food, Agriculture and Natural resources, Khartoum, Sudan.

planning in the FAO regional Expert Consultation of the Asian Network for Food and Nutrition Bangkok, Thailand July 24-27, 1990.

- Presented country paper on the utilization of chickpeas and groundnut in Pakistan, in the consultant's meeting on uses of Grain Legumes held at International Crops research institute for semi Arid Tropics (ICRISAT) Hyderabad, India March 27-30, 1989.
- Presented country paper on trends in urbanization and food consumption in Pakistan, in the FAO expert Consultation of the Asian Network for Food and Nutrition on Nutrition and Urbanization Bangkok, Thailand May 2-5, 1989.
- Presented Pakistan in the SAARC Meeting of Counterpart Scientists and presented country paper on livestock improvement held at Savar, Bangladesh December 18-19, 1989.
- Presented country paper on Agriculture plans for nutritional adequacy in Pakistan in the FAO Regional Expert Consultation of the Asian Network for food and Nutrition Bangkok, Thailand May 3-6, 1988.
- Resource paper on food production, consumption, distribution and their impact on nutritional status of children in South asia for SAARC Conference on Children. New Delhi, India. November 27-29, 1986.
- Attended International Soybean Utilization workshop for Asia held at Soybean food research Centre, Gannoruwa, Peradeniya, sri Lanka. Jan 14-26, 1985.
- Attended IFA annual meeting in Anaheim (Los Angeles) California, USA. June 10-14, 1984.
- Presented country paper on food grain handling at village level in the FAO workshop on Improvement of Food Handling at Village and Household levels in asia, held at Chieng Mai, Thailand. November 8-11, 1983.
- Presented paper on the effects of Food processing on the protein quality of some cereal products at the international Conference on Chemistry and food supplies (CHEMRAWN-II) held in Manila, Philippines. December 6-10, 1982.
- Presented paper on Nutrition in Agriculture at the National seminar on Nutrition Improvement sponsored by FAO. Khartoum, sudan. May 12-14, 1979.
- Paper on relative constancy of urinary creatinine and urochrome, Presented in the Meeting of Nutrition Society, London, England. May 1972.

## 7. COUNTRIES VISITED:

<u>Name</u>	<u>Date</u>	<u>Purpose</u>
i) England	Oct. 1968- Dec. 1971	Higher studies leading to Ph.D. Degree at Queen Elizabeth College, University of London, sponsored by CENTO.
ii) Saudi Arabia	Jan.-Feb.1972	To perform Haj at Mecca and Medina.
iii) Denmark	June 1977 Oct. 1978	Post-Doctoral Research as a DANIDA Fellow at National Institute of Animal Sciences, Copenhagen
iv) Sweden	July 1977	Visited Swedish Seed Association, Svalov.
v) Sweden	Nov. 1977	Visited Department of Nutrition, University of Lund, Lund.
vi) Holland	Dec. 1977	Visited Central Institute for Nutrition & Food Research, (TNO) Zeist.
vii) West Germany	Dec. 1977	Visited Institute for Physiologie, Physiologische Chemie, Universitat Munchen, Munich.
viii) France	Dec. 1977	Visited Institute National de la Recherche Agronomique' Beaumont, Paris.
ix) England	Dec.1977 Jan.1978	Attended a symposium on Food Texture and Rheology (19th-22nd December 1977) and visited Energy Metabolic Unit, Department of Nutrition, Queen Elizabeth College, London.
x) Italy	Nov.1978	FAO Headquarters, Rome, for briefing on Sudan Project.
xi) Sudan	Nov.1978- June 1979	FAO Nutrition Consultant to the Ministry of Food, Agriculture and Natural Resources, Khartoum.
xii) Italy	June 1979	FAO Headquarters, Rome, for debriefing on Sudan project.



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- xiii) Philippines Dec. 6-10  
1982 Presented a paper in the International Conference on Chemistry and World Food Supplies (CHEMRAWN-11)Manila.
- xiv) Thailand Nov. 8-11,  
1983 Presented a paper in FAO Workshop on improvement of food handling at village and household levels in Asia. Chieng Mai.
- xv) Syria April 10-25  
1984 Visiting Scientist to Cereal and Legume Quality Labs. at the International Center for Agricultural Research in Dry Areas (ICARDA), Aleppo.
- xvi) U.S.A. May 7-June 30  
1984 Attended U.S.D A.sponsored course on soybean processing at the University of Illinois, Urbana, Illinois.
- Visited research laboratories of A.E. Staley Foods Co. in Decatur, Illinois (May 22).
- Visited INSTA PRO, International in Des Moines, Iowa ( June 1).
- Attended IFT Annual Meeting in Anaheim (Los Angeles), California (June 10-14).
- xvii) Canada July 1-3,1984 Visited Grain Research Laboratory Canadian Grain Commission, Winnipeg.
- xviii) Sri Lanka Jan.14-26,  
1985 Participated in the International Soybean Utilization Workshop for Asia held at Soybean Foods Research Center in Gannoruwa, Peradeniya.
- xix) Sultanate April 2-May  
of Oman 1, 1986 Establishment of Food Technology and Nutrition Labs at the Agricultural Research Station, Rumais, Muscat.

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|---------|------------|---------------------|---|
| xx)     | Mexico     | Oct.<br>11-21, 1986 | Visiting scientist to the International Maize and Wheat Improvement Center ( CIMMYT), Mexico City.  |
| xxi)    | U.S.A.     | Oct.<br>23-25, 1986 | Visited wheat quality laboratory, Department of Agronomy, University of Nebraska, Lincoln.  |
| xxii)   | Austria    | Oct.<br>27-29, 1986 | Visited International Atomic Energy Agency, Vienna and IAEA Laboratories at Seibersdorf.  |
| xxiii)  | England    | Oct.<br>30-31, 1986 | Study visit to Tropical Development and Research Institute and Department of Nutrition and Food Science, Kings College, University of London. |
| xxiv)   | India      | Jan.<br>23-30 1988  | Visiting scientist to International Crops Research Institute for Semi Arid Tropics. (ICRISAT), Hyderabad.                                     |
| xxv)    | Thailand   | May 3-6,<br>1988    | Participated in the FAO Regional Expert Consultation of the Asian Network for Food and Nutrition, Bangkok.                                    |
| xxvi)   | India      | March<br>27-30 1989 | Utilization of Chickpea and Groundnut in Pakistan. Paper presented in the Consultant's Meeting on Uses of Grain Legumes, ICRISAT, Hyderabad.  |
| xxvii)  | Thailand   | May 2-5,<br>1989    | Participated in the FAO Expert Consultation of the Asian Network for Food and Nutrition on Nutrition and Urbanization, Bangkok.               |
| xxviii) | Bangladesh | Dec.<br>18-19 1989  | Presented Pakistan in the SAARC meeting of Counterpart Scientists on Livestock Improvement at Saver.  |

- xxix) Thailand July 24-27, 1990 Participated in the FAO Regional Expert Consultation of the Asian Network for Food and Nutrition on Dietary Guidelines for Food and Agriculture Planning, Bangkok.
- xxx) U.S.A. July 5-13, 1991 Visiting scientist to Beltsville Agricultural Research Center, Maryland.
- xxxii) Canada July 15-24, 1991 Visiting scientist to Agriculture Canada  
- Central Experimental Farm, Ottawa.  
- Agricultural Research Station, Saskatoon.  
- University of Saskatchewan, Saskatoon.  
Dept. Chemistry and Food Quality.  
Dept. of Animal & Poultry Science. Veterinary Infectious Diseases Organization.  
POS (Protein, Oil, Starch) Pilot, Plant.  
- University of Toronto  
Dept. of Nutritional Sciences.
- xxxiii) England July 25-31, 1991 National Institute of Agricultural Botany (NIAB) Cambridge. Natural Resources Institute (NRI), Chatham, Kent.
- xxxiiii) Saudi Arabia August 1-8, 1991 National Agriculture and Water Research Center, Riyadh .  
Dept. of Nutrition, Ministry of Health, Riyadh.  
- College of Applied Medical Sciences, King Saud University, Riyadh.
- xxxv) Saudi Arabia Oct 1991-Apr 2000
- Professor of Nutrition-Dept. of Community Health, College of Applied Medical Sciences, King Saud University, Riyadh.
  - Nutrition Consultant to King Khalid University Hospital, Riyadh.
  - Nutrition Consultant to Gulf Catering Company (School Feeding Program), Jeddah.