

CURRICULUM VITAE

Maazullah Khan Ph.D.

Principal Engineer (Agri)
Nuclear Institute for Food and Agriculture (NIFA)
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EDUCATION

Post-Doctoral Associate: 1997. Food Science Department. Cornell University. USA

Ph.D. Agricultural (Food) Engineering: 1996. University of Missouri-Columbia, Biological and Agricultural Engineering Department, USA

M.S. Agricultural Engineering: 1993. Mississippi State University, Agricultural & Biological Engineering Department, USA

B.Sc. Agricultural Engineering: 1989. University of Engineering and Technology Peshawar, Agricultural Engineering Department, Pakistan

EXPERIENCE

Name of Organization where employed/served	Post being held with BPS/SPS.	Period served.		Nature of Job (Teaching, R&D , Technical, etc)
		From	To	
1. NIFA, PAEC	P.E. (Agri) SPS-10	1-12-2008	Present	R&D on Food processing,
2. KPK Agri. Univ. Peshawar	Visiting Associate Professor	2007	Present	Teaching and R&D
3. NIFA, PAEC	S.E. (Agri) SPS-9		31-11-08	R&D on Food processing
3. PCSIR, Peshawar	S.E. BPS-18	25-10-00	24-10-00	do
4. Univ. of Eng. & Technology Peshawar	Lecturer BPS-17 (Contract)	17-07-00	12.06.00	Teaching
5. North-South Seeds (AKRSP)	Consultant		02.06.00	Design and fabrication of seed processing equipment
6. KPK Agri. Univ. Pesh.	Scientific Pool Officer	02.01.00	02.12.99	
7. Pal-Agri-Industries Peshawar	General Manager		31.12.98	
	Post-Doctoral Associate	03.06.99	05.01.98	Teaching and Research Managerial
8. Cornell Univ. Ithaca, NY, USA		12.02.98		R&D on Supercritical extrusion
		06.01.97		

AWARDS/SCHOLARSHIPS

Gold Medal for Outstanding Performance during Undergraduate Studies.

Merit Scholarship for Higher Studies. Ministry of Education, Government of Pakistan.

Travel Scholarship for Presentation at IFT Annual Meeting in New Orleans. June 22-26 1996. Graduate School University of Missouri-Columbia.

RESEARCH INTERESTS

Food Engineering, Extrusion Cooking of Cereals and Oilseeds. Drying of Fruits and Vegetables. Canning of Fruits, Vegetables. Agro-Food Processing Machinery, Process Development

PUBLICATIONS/PRESENTATIONS

1. Zulqarnain, Fazal Mahmood, Hamid Ullah Shah, Sahib Alam, **Maazullah Khan** and Mohammad Amjad Sabir (2012). Comparison of various preservation technologies on physico-chemical and organoleptic characteristics of Oyster mushroom. *J. Chem Soc. Pak.* 34(1): 173-176
2. N. Bibi, Z. Mehmood, A. Zeb, **M. Khan** and R. A. Anis (2011). Effect of cooking on amylose contents of mungbean and chickpea varieties. *Journal of Food Science and Engineering*, 1, 56-61
3. Jawad Obaid, Shahid Akbar Khalil, Amal Badshah Khattak, **Maazullah Khan** and Mohammad Ayub. (2010). Effect of Hot Water Dipping on the Post Harvest Life of Blood Red Oranges. *Advances in Food Science*, 32, (1) 82-87
4. M.K. Khattak, **Maazullah Khan**, M. Hanif. 2010. Development of Small Scale Flat Plate Solar Collector for Agricultural Purposes. Presented at The International Conference on Energy Systems Engineering (**ICESE - 2010**) held in Islamabad-Rawalpindi, Pakistan, on 25 - 27 October 2010.
5. **Maazullah Khan**, Shahid Akbar Khalil and Amal Badshah Khattak. (2009). Solar and Electrical Drying of Cantaloupes (*Cucumis melo* L): Quality attributes and its Economic Feasibility. *Advances in Food Science*. 31 (3):176-178
6. Shahid Akbar Khalil, Shahid Hussain, **Maazullah Khan** and Amal Badshah Khattak. (2009). Effects of gamma irradiation on quality of Pakistani blood red oranges (*Citrus sinensis* L. Osbeck). *International Journal of Food Science & Technology*, 44, 927-931.
7. Amal Badshah Khattak, **Maazullah Khan**, Nizakat Bibi and Tila Mohammad. (2007). Impact of genotype and sowing time on selected quality and agronomic characteristics of bread wheat (*Triticum aestivum* L). *Advances in Food Science*. 29 (2), 79-83.

8. Amal Badshah Khattak, Aurang Zeb, **Maazullah Khan**, Nizakat Bibi, Ihsanullah, and Mohammad Saeed Khattak. (2007). Influence of germination techniques on sprout yield, biosynthesis of ascorbic acid and cook ability, in chickpea (*Cicer arietinum L.*). Food Chemistry. 103, (1), 115-120).
9. Zahid Mahmood, Abdul Malik, **Maazullah Khan**, Muhammad Asif and Amjad Masood, (2006). Performance evaluation of solar dryers for drying onions in NWFP. Sarhad Journal of Agriculture, Vol. 22. No. 1. 1-5.
10. Amal Badshah, Abdul Jabbar, **Maazullah Khan**, Nizakat Bibi, Sajjad, Ali, M. A. Chaudry, and M. Saeed Khattak 2005. Evaluation of physical and chemical characteristics of newly evolved wheat cultivars. Journal of the Science of Food and Agriculture. 85 (6) 1061-1064.
11. Amal Badshah Khattak, Nizakat Bibi, Muhammad Ashraf Chaudry, Misal Khan, **Maazullah Khan**, and Muhammad Jamil Qureshi. 2005. Shelf-life extension of minimally processed Cabbage and Cucumber through Gamma irradiation. Journal of Food Protection. 68 (1) 105-110.
12. Nizakat Bibi, Amal Badshah Khattak, Muhammad Ashraf Chaudry, Misal Khan, **Maazullah Khan** and Shahid Akbar Khalil. 2005. Shelf-life extension of minimally-processed Tomato through Gamma irradiation Advances in Food Science. 27 (1) 9-13.
13. Zahid Mahmood, **Maazullah Khan**, Amjad Masood, Muhammad Asif, (2005) Design and development of a Gable type solar dryer for drying fruit and vegetables. Sarhad Journal of Agriculture, Vol. 21. No. 4. 525-529.
14. Amal Badshah Khattak, **Maazullah Khan**, Nizakat Bibi, Misal Khan, M. A. Chaudry, Abdul Jabbar, Abid Fareed, Ehsanullah and M. Saeed Khattak. 2004. Impact of genotype and location/ environment on protein, gluten and moisture content of PAKISTANI wheat. Advances in Food Science. 26 (2) 79-82
15. Muhammad Ashraf Chaudry, Amal Badshah, Nizakat Bibi, Misal Khan, **Maazullah Khan**, Ehsanullah and Muhammad Jamil Qureshi. 2004. Shelf-life extension of minimally- processed fruits and vegetables through Gamma irradiation. II. Microbial safety and sensoric quality of apples and melons. Advances in Food Science 26 (3) 98-103
16. Muhammad Ashraf Chaudry, Nizakat Bibi, Misal Khan, **Maazullah Khan**, A. Badshah, and M. J. Qureshi. 2004. Radiation treatment of minimally processed carrots to ensure microbial safety. Radiation Physics and Chemistry. 71 (1-2) 171-175.)
17. **Maazullah Khan**, H.E. Huff, F. Hsieh, S. Greibing, J. Porter and Y. Li. 2003. Retention of nutritional quality of soybean during extrusion cooking. Pak. J. Sci. Ind. Res. 46(5) 389-394.

18. A. Badshah, **Maazullah Khan**, Nizakat Bibi, Sajjad Ali, M.A. Chaudry, and M. Saeed Khattak. 2003. Quality studies of newly evolved chickpea cultivars. *Advances in Food Science*. 25 (3) 95-99.
19. Alavi, S.H., Gogoi, B.K., **Khan, Maazullah.**, Bowman, B.J., and Rizvi, S.S.H. 1999. Structural Properties of Protein Stabilized Starch-Based Super-Critical Fluid Extrudates. *Food Research International* (32) 107-118. Canadian Institute of Food Science. Published by Elsevier Science Ltd.
20. **Maazullah Khan**, Fu-Hung Hsieh, Harold Huff. 1996. Temperature Profile Development During Soybean Extrusion. Presented at ASAE Mid-Central Conference. April 12-13, 1996. St. Joseph, MO. Paper No. MC96-115.
21. **Maazullah Khan**, Fu-Hung Hsieh, Harold Huff. 1996. Optimization of Process Parameters for Extrusion of Full-Fat Soybeans. Presented at IFT Annual Meeting. New Orleans, LA. June 22-26.
22. **Maazullah Khan**, Fu-Hung Hsieh, Harold Huff. 1996. Optimization of Process Parameters for Extrusion of Full-Fat Soybeans. Presented in 13th Annual Research and Creative Activity Forum. March 02. University of Missouri-Columbia, Columbia, MO65211.
23. **Maazullah Khan**, Fu-Hung Hsieh, Harold Huff. 1995. Optimization of Extrusion Conditions for Inactivation of Soybean Trypsin Inhibitors. Presented in Research Exhibition at University of Missouri Columbia on November 17. University of Missouri-Columbia, Columbia, MO65211.
24. **Maazullah** and Chen, L.H., 1994. Economic Comparison of Mechanical Harvesting and Hand Pulling of Sweet Potato Slips. *Applied Engineering in Agriculture*. Vol. 10(3): 341-344.

Funded Projects:

1. Design and Fabrication of a Laboratory-Size Single Screw Extruder for Conversion of Agro-based Materials into Value-added Food and Feed Products. No PSF ENG. 216. Rs.718000/- as PI

Other Activities/Facts:

1. Acted as In-charge Computer Cell, NIFA (2001-2005)
2. Acted as Protocol Officer and Rapporteur during the Final Research Coordination Meeting of the IAEA-PAEC held at Marriot Hotel Islamabad July 25-29, 2005.
3. Acted as stage secretary for the Awareness Seminar on Commercialization of Food Irradiation. Held at Islamabad. July 27, 2005

4. Attended International Workshop on Extrusion Technology at University of Agriculture Faisalabad. 15-08-08 to 17-08-08.
5. Attended Two-day training course on Awareness to ISO 22000:2005 (Food Safety Management system) held on 21-22 May 2009 at Nuclear Institute for Food and Agriculture (NIFA) under the auspices of Bureau Veritas
6. Attended Workshop on Optimization of Agriculture Pakistan Academy for Rural Development, Peshawar. 16-05-06 to 19-05-06. PARD/Agriculture-13(2006).
7. Attended Workshop on Web Enabling Technologies. 31.3.03 to 04.04.03. Computer Training Center, Islamabad.
8. Convener Assessment Board for NIFA, IRNUM and REO, Peshawar
9. Convener NIFA Annual Report Committee (2011)
10. Convener Seminars at NIFA (2001-2005)
11. Member Board of Advanced Studies and Research (BOSAR), KPK University of Engineering and Technology Peshawar.
12. Member Board of Studies. Department of Agricultural Mechanization. KPK Agricultural University Peshawar
13. Member Flood Damage Assessment committee, NIFA. (2010)
14. Member National Curriculum Revision Committee (NCRC) in Agricultural Chemistry. Higher Education Commission, Islamabad.
15. Member of the committee for disposal of old equipment in Food Science Division at NIFA.
16. Member Pakistan Engineering Council
17. Member Quality Action Team, Food Science Division, NIFA, Peshawar
18. Member Selection Board KPK University of Engineering and Technology (UET) Peshawar for Agricultural Engineering Department
19. Organized Computer Training Course (May 5 – June 4, 2004) on MS OFFICE, MSTAT-C and PHOTOSHOP for NIFA Officers
20. Organized One-day workshop on “Canning of Fruits and Vegetables” at NIFA on 22 June 2011.
21. Protocol and Liaison Officer, NIFA (2003-2007)
22. Serving as Visiting Faculty in Agricultural Mechanization Department of KP Agricultural University Peshawar since 2007.
23. Supervising MSc students from Agricultural Mechanization and Food Science Departments of KPK Agricultural University Peshawar