

KHALIFA QASIM LAGHARI (PhD.)

Professor (HEC –Pak approved PhD. Supervisor)
Department of Civil Engineering,

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PERSONAL BACKGROUND

Born: September 15, 1964, Citizenship: Pakistan, Married, 2 Children

OBJECTIVE

An enthusiastic, adaptive and fast-learning with a broad and acute interest in the discovery of new innovative irrigation water management systems, I particularly enjoy collaborating with scientists from different disciplines to develop new skills and solve new problems/challenges in Irrigation-water delivery systems.

ABILTIES

- Management
- Create a Positive Learning Environment
- Group Counselling
- Delivery of Lectures
- Organizing seminars/workshops/Networking
- Evaluate Performance
- Listening ability
- Real Research & Results Oriented

REASEARCH INTEREST

Irrigation water management; irrigation scheduling; crop consumptive water use (evapotranspiration); precision irrigation; water resources; surface irrigation scheduling systems computer-modeling, water table management, efficient use of water, water harvesting, crop water requirements study

EDUCATION

2009 PhD. (Irrigation Engineering)

Mehran University of Engrg. and Tech., Jamshoro, Pakistan Dissertation Title: "Perceptive Research on Irrigation Scheduling and Water Management"

1993 M.E (Hydraulics & Irrigation Engineering)

Mehran University of Engrg and Tech., Jamshoro, Pakistan

Thesis Title: "Scouring Downstream of Hydraulic Structure"

1990 B.E (Agriculture Engineering)

Sindh Agriculture University, Tandojam, Pakistan

Final year Project Tile: "Design and Fabrication of Soil Profile Meter"

ACADEMIC AWARDS AND HONORS

- Merit Scholarship (2004) Fellowship for Ph.D., Mehran UET. Jamshoro, Pakistan
- Author's Shield (2008) Mehran UET. Jamshoro, Pakistan
- **Gold Medal in M.E. (1993)** Scholarship from PCRWR . First Position in the Class, Mehran UET. Jamshoro, Pakistan
- **Silver Medal in B.E. (1990)** First Position in the Class, Sindh Agriculture University, Tandojam

PROFESSIONAL EXPERIENCE

2012 – Up to date Professor

Dept. of Civil Engineering, Mehran UET Jamshoro, Sindh, Pakistan. Teaching and Research on subjects Applied Hydraulics, Irrigation Engineering and Fluid Mechanics.

2009 – 2012 Associate Professor

Dept. of Civil Engineering, Mehran UET Jamshoro, Sindh, Pakistan. Teaching and Research on subjects Applied Hydraulics, Irrigation Engineering and Fluid Mechanics.

1998 – 2009 Associate Professor

Dept. of Civil Engineering, Mehran UET Jamshoro, Sindh, Pakistan. Teaching and Research on subjects Applied Hydraulics, Irrigation Engineering and Fluid Mechanics.

1993 – 1998 Lecturer

Dept. of Civil Engineering, Mehran UET Jamshoro, Sindh, Pakistan. Teaching and Research on subjects Applied Hydraulics and Surveying.

FIELD EXPERIENCE

2004 – 2009 Ph.D. Research

Irrigation scheduling, Irrigation water management of Wheat and Cotton Crops

SUBJECTS EXPERTISE

- Irrigation Engineering
- Applied Hydraulics
- Irrigation Water Management
- Water Resources Management
- Soil Water Plant Relationship
- Hydrology
- Fluid Mechanics
- Drainage Engineering

SUBJECTS EXPERTISE MAJOR FIELDS OF UNDERGRADE PROJECTS

- Irrigation Scheduling Systems
- Applied Hydraulics
- Fluid Mechanics
- Irrigation Engineering

PROFESSIONAL AFFILIATIONS

- *Member* of Hydrologic Engineering Center-River Analysis System (HEC-RAS) Eric Tate Center for Research in Water Resources, USA.
- *Member* of Project Evaluation at Higher Education Commission, Pakistan.
- *Member* of Editorial Board, Journal of agriculture engineering, veterinary sciences of SAU Tandojam, Pakistan.
- Member of Departmental of Review Committee (DRC), Mehran UET, Jamshoro, Pakistan.
- *Member* of senate Committee of Mehran UET, Jamshoro, Pakistan
- Member of Selection Board SAU Tandojam (Irrigation Engineering Expert)
- Member of Pakistan Engineering Council (PEC)

TECHNICAL TRAININGS

- Training on "English Language Improvements & Class Room Methods" (28th Sep 3rd Oct, 1993) sponsored by British Council, UK at ELC, MUET, Jamshoro, Sindh, Pakistan.
- Technical training on "Barrage Hydraulics" (Jun-Aug, 1998) in Technological University of Tajikistan, Dushanbe, Islamic Republic of Tajikistan.
- Training workshop on "Efficient Irrigation Management Practices" (July 10–12, 2007) under the linkage program between Mehran University and Colorado State University, Fort Collins, USA, sponsored by HEC Pakistan.

RESEARCH SUPERVISED

- Supervised 18 B.E students as their Major-Advisor on their research projects.
- Supervised 2 M.E students as their Major-Advisor on their research projects.

TECHNICAL SKILLS

- Irrigation Water Management by Computer Model
- Meteorological Data Observation through Equipment

OTHER COMPUTER SKILLS

- Microsoft Office (Word, Excel, Power Point, Visio) Expert Level
- Assured in effective working with Internet, as well as web development tools
- Computer Modelling by Visual Basic-6

CONFERENCES / SEMINARS / SYMPOSIA / WORKSHOPS ATTENDED

June 4-6, 2014 Conference - (attended) - Water: 21st Century Challenges & Way

Forward, Saving Water for Humanity Foundation International (SWHFINT) and IFPRI-USAID, Department of Civil Engineering, UET,

Lahore, Pakistan.

March 16-19, 2013 Conference – (attended) - International Conference on Intelligent

Water Distribution Systems (IWDS), IRSA Islamabad.

March 7-8, 2011 Conference - (attended) - International Conference on Water

Resources Engineering & Management. UET. Agricultural University

Faisalabad, Pakistan

Dec 2009 Seminar – Research paper presentation Irrigation Water

Management by Simulation Model

IIDE, MUET, Jamshoro M.D Hall MUET, Jamshoro.

March 4-5, 2008 Conference - Paper presented - International Conference on

Engineering Management [ICEM], Benchmarking Management Practices in Developing Countries. Dept. of Civil Engineering, Mehran

UET, Jamshoro.

July 10-12, 2007 Workshop - Efficient Irrigation Management Practices

Under the linkage program between Mehran University and Colorado State University, Sponsored by HEC, Islamabad. IIDE, MUET

Jamshoro

Dec 6, 2006 Conference - *Paper presented* - International Water Day, M.D Hall

MUET Jamshoro

PEERED REVIEWED RESEARCH JOURNAL PUBLICATIONS

 A Nindwani, B.K Lashari, A.H Memon, K.Q Laghari, H.M Hammad, W Farhad, [2014] "Impact of Drainage Water Use for Crop Irrigation". Journal of Science International, ISI Indexed, Publications International, Lahore, Pakistan

- 2. Ashfaque A. Memon, Khalifa Q. Leghari, Agha F. H. Pathan, Kanya L. Khatri, Sadiq A. Shah, Kanwal K. Pinjani, Rabia Soomro, Kameran Ansari, [2013]., "Design and Evaluation of Dadu Canal Lining for Sustainable Water Saving" Journal of Water Resource and Protection, 5, pp. 689-698 doi:10.4236/jwarp.2013.57069 Published Online July 2013 (http://www.scirp.org/journal/jwarp). U.S.A. based Journal.
- 3. Hafiz Mohkum Hammad, Ashfaq Ahmad, Wajid Farhad, Farhat Abbas, Khalifa Qasim and Shafqat Saeed,[2013] "Nitrogen Stimulates Phenological Traits, Growth and Growing Degree Days of Maize" Pakistan Journal of Agri. Sci., Vol. 50 No:3, pp.337-344; 2013.
- 4. Hammad, H.M., A. Ahmad, Laghari, K.Q., Farhat A., Wajid N., Wajid F., and Ali H.M. [2011]. "Organic Farming in Wheat Crop Under Arid Condition of Pakistan", Pakistan Journal of Agric. Sci, ISSN (Print) 0552-9034, ISSN (Online) 2076-0906, V.48, No.2, pp.97-102, Pakistan.
- 5. Manohar, L., Lashari, B.K., Laghari, K.Q., [2011]. "Flood Frequency Analysis of Main Nara Valley", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V.30, No.1, pp. 125–134. Sindh, Pakistan.
- Hammad, H.M., A. Khaliq, A. Ahmad, M. Aslam, A.H. Malik, W. Farhad, and Laghari, K.Q [2011]. "Influence of Different organic Manures on Wheat Productivity". International Journal of Agric. Biol., 13: 137–140 ISSN Print: 1560–8530; ISSN Online: 1814–9596,10–395/HUT/2011/13–1–137–140, Pakistan.
- 7. Lashari, B.K., Laghari, K.Q., Phul, A.M., [2010]. "Development of Irrigation Scheduling Model", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V.29, No.4, pp. 681–688. Sindh, Pakistan.
- 8. Laghari, K.Q., Lashari, B.K., Memon, H.M., [2010]. "Water Use Efficiency of Cotton and Wheat Crops at Various Management Allowed Depletion in Lower Indus Basin", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V.29, No.4, pp. 661–672. Sindh, Pakistan.
- 9. Phul, A.M., Lashari, B.K., Laghari, K.Q., [2010]. "Remodeling of Kalri Baghar (K.B) Feeder", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V.29, No.4, pp. 689–696. Sindh, Pakistan.
- Siddqui, R., Lashari, B.K., Laghari, K.Q., [2009]. "Calibration and Simulation of Cutthroat Flumes for Measuring Discharge", Mehran University Research journal of Engineering & Technology, ISSN 0254–7821, V. 28 No.3, pp. 385-392, Sindh Pakistan.
- 11. Lashari, B.K., Laghari, K.Q., Ujjan, G.M., [2009]. "Participatory Management of Reforms in Irrigation Sector of Sindh", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V. 28, No. 4, pp. 573–580, Sindh, Pakistan.
- 12. Laghari, K.Q., Lashari, B.K., Laghari, N.Z., [2009]. "Sensitivity Analysis of Weather Based Irrigation Scheduling Model", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V. 28, No. 4, pp. 565–572, Sindh, Pakistan.
- 13. Laghari, K.Q., Lashari, B.K., Memon, H.M., [2008]. "Perceptive Research on Wheat Evapotranspiration in Pakistan", Journal of Irrigation and Drainage. V. 57, pp. 571–584. John Wiley & Sons, Ltd. UK. (www.interscience.wiley.com).
- 14. Laghari, K.Q., Lashari, B.K., Memon, H.M., [2008]. "Computer–Based Irrigation Scheduling of Cotton Crop", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V. 27, No. 3, pp. 293–306. Sindh, Pakistan.
- 15. Laghari, K.Q., Sarki, A., Phul, A.M., [1999] "Conveyance Losses in Lined and Unlined Watercourses of Latif Minor", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V. 18, No. 4, pp. 251–254. Sindh, Pakistan.
- 16. Laghari, K.Q., Sarki, A., Phul, A.M., [1998]. "Effect of Potential Head on the Efficiency of Pelton Wheel", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V. 18, No. 1, pp. 19–26. Sindh, Pakistan

- 17. Laghari, K.Q., Quresshi, A.L., Phul, A.M., [1996]. "A Model Study of Scour Downstream of Sluice Gates", Mehran University Research Journal of Engineering & Technology, ISSN: 0254–7821 (print). V. 15, No. 3, pp. 6–10. Sindh, Pakistan.
- 18. Hammad, H. M., F. Abbas, A Ahmad, K. Q. Laghari and W. Farhad,. [2015]. Water and nitrogen application stimulate maize resource capture and use efficiency under semi-arid environment. *Turkish Journal of Field Crop Research* (Submitted).
- 19. Hammad, H. M., F. Abbas, K. Q. Laghari, W. Farhad, G. M. Shah, M. A. Khan, W. Nasim and M. Mubeen. [2015]. Integrated use of organic manure to enhance soil organic carbon and wheat yield. *Journal of Plant Nutrition* (Submitted).
- Mahessar, A.A., Qureshi, A.L., Kori, S.M., Faoowui, G.S., Memon, N.A, Memon, A.A., Laghari, K.Q. [2020]. Sediment Transport Dynamics in the Upper Nara Canal Off-taking from Sukkur Barrage of Indus River. Engineering, Technology & Applied Science Research Vol. 10, No. 6, pp. 6563-6569
- 21. Mahessar, A.A., Qureshi, A.L., Sidiqui, B., Kori, S.M., Mukwana, K.C., Qureshi, A.S., Leghari, K.Q., [2020]. Rainfall Analysis for Hyderabad and Nawabshah, Sindh, Pakistan. Engineering, Technology & Applied Science Research Vol. 10, No. 6, pp. 6597-6602
- 22. Hammad, H.M., Abbas F., Ahmad A., Fahad S., Laghari K.Q., Alharby H., Farhad W., [2016]. "The effect of nutrients shortage on plant's efficiency to capture solar radiations under semi-arid environments", Environmental Science and Pollution Research Vol. 23, pp 20497-20505
- 23. Leghari N., Mughal A.Q, Leghari K.Q, Farhad W., Mirjat M.S., Hammad H.M., [2016]. "Effect of various tillage practices on soil properties and maize growth", Pakistan Journal of Botany Vol. 48, No. 3, pp 1173-1182