

## **QAZI ABDUL KHALIQUE ANSARI**

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### **Presently**

Working as a Chairman in Chemical Engineering Department, Mehran University of Engineering & Technology Jamshoro & leading the international DelPHE project on “Capacity Building in Water Demand Management” through Sustainable Development Research Cell (SDRC) of the University.  
(details at [www.wedc.com.pk](http://www.wedc.com.pk)).

### **Qualifications**

B.E Chemical from University of Sindh, MSC Chemical Engineering & Ph.D. in Chemical Metallurgy from University College Swansea, University of Wales UK.

### **Experience**

More than 33 years experience as a University teacher (& Professional Engineer) in the field of Chemical Engineering, Environmental Engineering including research guide to the post-graduates students.

More than 15 years Administrative & Management experience as a Chairman, Chemical Engineering Department & Director, Institute of Environmental Engineering & Management (Since it's Inception) in Mehran University Jamshoro.

### **Research Interest**

Water Quality, Modeling, Treatment, Environmental Management

### **Environmental Consultant /Specialist**

Worked as a **Curriculum** Development Consultant (Environmental Technology), with ACCC, Canadian Consultants on Technical Education Project (ADB Loan # 1373, Pak- (SF) Ministry of Education, Pakistan) to develop need based Curriculum on Environmental Technology

Also worked as an **Environmental Specialist** in the Sindh Irrigation & Drainage Authority (SIDA) to introduce the **Institutional Reforms**, as per the agenda of National Drainage Program (NDP) to achieve the goals of equitable

and reliable water supply to all farmers through participatory irrigation. Here he worked with all stakeholders including the Farmers Organizations (FOs) to develop strategy & schemes to implement the NDP " Environmental Management Plan (EMP) " through the establishment of EMU in SIDA. Environmental issues were addressed to minimize the environmental Impacts resulting from surface drainage rehabilitation projects.

## **Editor**

Since last 10 years, he is working as Editor of "Quarterly Mehran University Research Journal of Engineering & Technology [ISSN-0254-7821]" published regularly since 1982.

## **Curriculum Development**

1. Designed the M.E course in Environmental Engineering, which is attended by 20-30 students in the Institute of Environmental Engineering & Management in Mehran University Jamshoro ([www.muett.edu.com](http://www.muett.edu.com)).
2. Designed the Post graduate certificate Course on Waste Management in Collaboration with Brunel University UK. under HEC-BC Linkage Program.
3. "Urban Water Demand Management" module developed in collaboration with Exeter University, UK is in offing to offer in the ME Program of IEEM, Mehran University Jamshoro through the DelPHE Project.

## **Linkage Programs**

The HEC-BC Joint Higher Education Links Programme with Brunel University has been won in April, 2006. The Programme Proposal on "Waste Treatment and Management" was co-authored and initiated as a Chairman Chemical Engineering Department MUET, Jamshoro in November, 2006. This linkage programme will continue for three years from 2007.

**DelPHE**(Developing Partnerships in Higher Education)Project was won on: "**Capacity Building for Urban Water Demand Management**" as a lead partner in 2008, having Exeter University as a UK partner with 2 partners (NCEAC, Jamshoro & SAU, Tando jam ) from Pakistan.

**Summary/ Aim:** To develop a research base on aspects related to urban water demand management and enhance capacity at institutional and national level through structured knowledge transfer and provision of pilot scale demonstration sites for selected water demand management options.

## **Research Grants:**

- “Survey on Waste Minimization Practices in Pakistan” through the support of Asian Productivity Organization (APO), Japan from July 1998 - Dec 1998.
- Research project on “ Drinking Water Quality Control of Hyderabad City” from August 1994 to Nov 1995.
- Research study on “Environmental Problems of Sugar Industries of Sindh” sponsored by University Grants Commission from 1991 to 1992.

## **Publications:**

Over 40 publications in National & International reputed Journals

### **(From 2000-2009)**

1. “Assessment of Water Quality in the Coastal Environment of Karachi Bordering Northern Arabian Sea”. (Accepted for publication in International Journal of Flood Engineering, 2009).
2. “Application of ANN for Predicting Water Quality Parameters in the Mediterranean Sea along Gaza-Palestine”. Mehran University Research Journal of Engineering and Technology, Volume 27, No. 3, pp.331-338.
3. “Predictive potentiality of Artificial Neural Networks for predicting the Electrical conductivity (EC) of drinking water of Hyderabad city ” proceedings of 12th WSEAS CSCC Multi-conference, Heraklion, Crete Island Greece, 23-25 July 2008, pp-487-490
4. “Prediction of Parametric Value of Drinking Water of Hyderabad city by Artificial Neural Network Modeling”, WSEAS TRANSACTIONS on ENVIRONMENT and DEVELOPMENT, issue 8, volume 4, August 2008, pp-707-716 : ISSN: 1790-5079
5. “Sea Water Intrusion into Tidal Link Drain of LBOD & Distribution of Suspended Material After Cyclone 2A” Vol. 25 No. 1 January 2006, Mehran university Research Journal of Engineering & Technology, Jamshoro.
6. “Upgrading Jungshahi Sand for Use in Glass Manufacturing” Vol. 24 No. 4 October 2005, Mehran University Research Journal of Engineering & Technology, Jamshoro.

7. "Cotton Crop Production With Reference to Pesticides Application and its Future Perspective" Vol.1, No. 2, September 2004, The Indus Cottons. Research journal.
8. "Freshwater Resources of the Indus Delta Eco-region" Proceeding of Consultative Workshop on Indus Delta Eco-region (IDER), organized by WWF- Pakistan Karachi from December 16-19, 2002.
9. "Scale-Up Production of Monodispersed PMMA Polymer Particles by Dispersion Polymerization" Vol. 23 No. 4 October 2004, Mehran University Research Journal of Engineering & Technology, Jamshoro.
10. Agglomeration of Iron ore with Bitumen as a Binder", Vol. 23 No. 3 July 2004, Mehran University Research Journal of Engineering & Technology, Jamshoro.
11. "Innovation and Organization Change in Irrigation Management of Sindh", Vol. 22. No.3, July 2003, Mehran University Research Journal of Engineering & Technology, Jamshoro.
12. " Control of Groundwater Pollution by Scavenger Wells" Second International Irrigation and Drain Conference on Water for a Sustainable World--- Limited Supplies and Expanding Demand, held from May 12-15, 2003, at Phoenix, Arizona.
13. "Pesticide Poisoning in the Agriculture Work Force" presented & published in the 3rd National Seminar on Occupational Health Safety & Environment, organized by IEP, Karachi from 14th-15th October 2003.
14. "Drinking Water Quality of Sukkur Municipal Corporation", Vol. 20 No. 3 July 2002, Mehran University Research Journal of Engineering & Technology, Jamshoro.
15. "Perspective of Bareji Distributary Command LBOD Project Mirpurkhas through GIS" International Seminar on Natural Hazards Monitoring held from January 7th to 11th 2002, at Karachi.
16. "Environmental Threats to Our Sea" International Seminar on Natural Hazards Monitoring held from January 7th to 11th 2002, at Karachi.
17. "Impact of Scavenger Wells on Crops and Groundwater Table" 2002 USCID/EWRI Conference on Energy, Climate, Environment and Water--- Issues and Opportunities for Irrigation and Drainage, held from July 9-12, 2002, at San Luis Obispo, California.

18. "Waste Reuse in Sugar Industries" Proceeding of the "6th International Symposium on East Asian Resources Recycling Technology", held from October 23rd to 25th 2001 at Korea.
19. "Increased Environmental Problems Caused Due to Road Traffic Noise Nuisance in Hyderabad City" Vol. 20 No. 2, July- December 2001, Journal of Engineering and Applied Sciences, N.W.F.P. Engineering University Peshawar.
20. "Occupational Noise and its Analysis at Thermal Power Station (TPS) Jamshoro Sindh (Pakistan)" Vol. 20 No. 2, July- December 2001, Journal of Engineering and Applied Sciences, N.W.F.P. Engineering University Peshawar.
21. "Impact of Sugar Industry Fly Ash Emissions on Environment" Vol. 20, October 2001, Mehran University Research Journal of Engineering & Technology, Jamshoro.
22. "A New Manufacturing Process of Iron & Steel" Vol. 20 No. 1, June 2001, Journal of Engineering and Applied Sciences, N.W.F.P. Engineering University Peshawar.
23. "Impact of Right Bank Outfall Drain Effluents on River Indus" Vol. 20 No. 2 April 2001, Mehran University Research Journal of Engineering & Technology, Jamshoro.
24. "Environment and Forestry Go Together" Proceeding of National Seminar on "Perspectives of Forestry in New Millennium" held on April 17th to 19th 2001 at Karachi.
25. "Environmental Problems Attributed Due to Increased Road Traffic Intensity in Hyderabad City" Vol. 20, No. 1 January 2001, Mehran University Research Journal of Engineering & Technology, Jamshoro.
26. "Impact of Scavenger Wells on Agriculture Around Khadro" Proceeding of "National Seminar on Drainage in Pakistan" held on 16th to 18th August 2000 at M.U.E.T, Jamshoro.
27. "Environmental Study of Sea Water Intrusion Around Tidal Link" Proceeding of "National Seminar on Drainage in Pakistan" held on 16th to 18th August 2000 at M.U.E.T, Jamshoro.
28. "Road Traffic Noise in Hyderabad City" Vol. 19, No. 3, July 2000, Mehran University Research Journal of Engineering & Technology, Jamshoro.
29. "Road Traffic Flow and Impact on Environment in Hyderabad City" Vol. 19, No. 2, April 2000, Mehran University Research Journal of Engineering & Technology, Jamshoro.

30. "Perspective on Cropping Pattern and Soil of the Bareji Distributary Command, Mirpurkhas Component, LBOD, Project" Proceedings of "National Seminar on Drainage in Pakistan" held on 16th to 18th August 2000 at M.U.E.T., Jamshoro.
31. "Waste Minimization practices in Pakistan" published in "Waste Minimization Practices" Book, by Asian Productivity Organizations (APO), Japan, 2000.