



Engr. Abdul Waheed Bhutto

1. Personnel

Designation **Assistant Professor**, Dawood college of Engineering and Technology, Karachi.

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Date of Birth May 01, 1974.

2. Education

<u>Certificate/ Degree</u>	<u>Name of Institution</u>	<u>Duration</u>
S.S.C. (Science)	Govt: High School, Daharki.	1988- 1989
H.S.C. (Pre-Engg)	Govt: Degree College Ghotki	1990-1992
B.E. (Chemical)	Dawood College of Engineering and Technology, Karachi	1993-1998
M.Engg (Environment)	NED University of Eng. and Technology, Karachi	1999-2001

3. Career

March 03, 2010-till date **Assistant Professor and Director Student Affairs in** Dawood College of Engineering and Technology, Karachi. DCET Students Directorate provides students with range of services designed to help and assist them adjust to university life and to achieve potential in terms of their personal, educational, social and professional goals.
Responsibilities of Director Student Affairs includes

- Organizing student activities & societies.
- Assistance in Career Development
- Handling of student grievances / special needs.
- Long Term University - Alumnus relations
- Publish Newsletters

July 2009 -March , 2010 **Chairman and Assistant Professor**, in Department of Chemical Engineering, Dawood College of Engineering and Technology, Karachi. Beside teaching, responsibilities includes

- a. Look after the academic and administrative affairs of Department of Chemical Engineering.
- b. Final yeas project supervision

- May05, 2004- till present** **Assistant Professor**, in Department of Chemical Engineering, Dawood College of Engineering and Technology, Karachi. Responsibilities includes
- a. Final yeas project supervision
 - b. In-charge UOP Laboratory
 - c. Teaching of subject in the department of Chemical Engineering
 - d. Assistant in Administration to Chairman Department of Chemical Engineering.
 - e. Organized Workshop/ Seminars/Technical Sessions in the department for local and foreign visitors/speakers.
- July09, 2003- May, 2004** **Graduate Engineer** in HSE department of Pakistan Refinery Limited. Responsibilities includes
- a. Revise the existing Standard operating procedures (SOPs).
 - b. Safe work permit system
 - c. Waste work Treatment Plant
 - d. Monitoring implementation of NEQS
- Oct. 1998 -July, 2003** **Lecturer in** Department of Chemical Engineering, Dawood College of Engineering and Technology, Karachi. Responsibilities includes
- a. Teaching of subject in the department of Chemical Engineering
 - b. Assistant in Administration to Chairman Department of Chemical Engineering
 - c. Final yeas project supervision
 - d. Organized Workshop/ Seminars/Technical Sessions in the department for local and foreign visitors/speakers.

4. Honors

Member National Curriculum Revision Committee (NCRC) in Chemical Engineering, Higher Education Commission, Government of Pakistan. (2007 -2009)

Chairman, Discipline Committee, DCET, Karachi

Member, Academic Council, DCET, Karachi

Member, Board of Studies, Department of Chemical Engineering, DCET, Karachi

Member Purchase and Procurement Committee, DCET, Karachi

Member Transport Committee, DCET, Karachi.

5. Professional Memberships

Life Member Pakistan Engineering Council.

Member South Asia Network for Development Environmental Economist (SANDEE)

6. Leadership

Founder Member of Biomass Conversion Research Group with objective to unify Pakistan's efforts to advance technology for producing fuels, chemicals, materials, and power from biomass.

7. Other Activities

- External examiner of Mehran University of Engineering & Technology, Jamshoro.
- External examiner of NED University of Engineering & Technology, Karachi.

8. Publication in Research Journal

1. Bhutto, A W and Bazmi, A. A. Rice-Wheat Straw as raw material for ethanol production in Pakistan. Submitted to *Biomass and Bioenergy*. (Manuscript Number: JBB-D-08-00048)
2. Bhutto, A W and Bazmi, A. A. The Role of Sustainable Agriculture in the Economy of Developing Countries; a case study of Pakistan. Submitted to *Journal of Development Development*. (Manuscript ID: FJDS-2009-Sep-0008)
3. Bhutto, A. W., Karim, S., Bazmi A. A., and Pathan, N.A. 2007. **Biochemical Engineering Education in Pakistan**. *Journal of Chemical Engineering of Japan*. Vol. 40 (12); 1121-1128
(Completed paper available at following website)
http://www.jstage.jst.go.jp/article/jcej/40/12/1121/_pdf
4. Bhutto, A. W., and Bazmi, A. A. 2007. **Agriculture growth and eradication of rural poverty in Pakistan**. *Natural Resources Forum*. 31(4); 253-262 (Abstract available at following website)
<http://www.blackwell-synergy.com/doi/abs/10.1111/j.1477-8947.2007.00162.x?cookieSet=1&journalCode=narf>
5. Bhutto, A.W., and Karim, S. 2007. **Energy-poverty alleviation in Pakistan through use of indigenous energy resources**. *Energy for Sustainable Development*- Vol. XI, No. 1. pp 30-39. (Abstract available at following website)
<http://www.esd-journal.org/ESDvol11no1/energypakistanabstractv11n1.html>
6. Bhutto, A. W. 2006. **Sustainable Agriculture and Eradication of Rural Poverty**. *South Asian Journal*. Vol. 3. January-March 2006.

7. Bhutto, A.W. 2005. **Enhancing Chemical Engineering Curricula in Pakistan for adaptation to new challenges of Industrialization.** *World Transactions on Engineering and Technology Education* Vol.4, No.2. (Completed paper available at following website)
<http://www.eng.monash.edu.au/uicee/worldtransactions/WordTransAbstractsVol4No2/17-Bhutto7.pdf>
8. Bhutto, A.W., and Karim, S. 2005. **Coal Gasification for sustainable development of energy sector in Pakistan.** *Energy for Sustainable Development-* Vol. X, No. 4. pp 60-67.
 (Abstract available at following website)
<http://www.esd-journal.org/ESDvol9no4/coalgasificationpakistanabstractv9n4.html>

9. Publication in Conferences/ Workshops Proceedings

9. Bhutto, A. W., and Karim, S. **Natural gas resources expansion in Pakistan and energy security.** Proceeding of Second International Conference: Environmentally Sustainable Development (26-28 August 2007) COMSATS Institute of Information Technology, Abbottabad, Pakistan.
10. Bhutto, A. W., Bazmi A. A., and Ghauri, M. **Fuel ethanol as feasible and desired option in Pakistan.** Proceeding of Second International Conference: Environmentally Sustainable Development (26-28 August 2007) COMSATS Institute of Information Technology, Abbottabad, Pakistan.
11. Bhutto, A. W., and Bazmi A. A. **“Assessment of Sludge and Tank bottoms Treatment Processes”**, Proceeding of First International Conference: Environmentally Sustainable Development (26-28 June 2005.) COMSATS Institute of Information Technology, Abbottabad, Pakistan (2005) pp 1797-1803

10. Presentations in Conferences/ Workshops

12. Bhutto, A. W., Bazmi A. A., and Ghauri, M. **“Agricultural and Agro-Industrial Residues as Raw Materials for Ethanol Production”**. Proceeding of 1st International Workshop on Food Processing (23-25 April, 2007). Mehran University of Engineering and Technology, Jamshoro, Pakistan.
13. Bhutto, A. W., Bazmi A. A., and Pathan, N.A. **“Emerging Frontiers of Biological Sciences in Chemical Engineering”** Proceedings of three day 1st international Conference on Biotechnology and informatics (April 10-12, 2006) Department of Biotechnology and Informatics, BUITMS, Quetta, Pakistan.
14. Bhutto, A. W., and Karim, S. **“Poverty alleviation in Pakistan through use of Sustainable Energy Resources”** Presentations in three day International Conference on Environmental Horizons December (19 - 21, 2005) Department of Chemistry and

International Centre for Chemical Sciences (ICCS) held on December 19 - 21, 2005 at University of Karachi.

15. Bhutto, A. W., and Bazmi A. A. **“Sustainable Agriculture Growth is Pre-requisite for eradication of rural poverty in Pakistan”** Presentations in two-day workshop on ‘Agriculture and Environment’ (4th October, 2005) Ministry of Environment-Government of Pakistan, Islamabad (2005).

11. Seminar / Conference / Symposia attended

1. One day seminar on **“Latest Trends in Waste Treatment and Management in Developed countries and Pakistan”** organized by Department of Chemical Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan on January 8, 2008
2. One Day Short Course on **“Environmental Biotechnology: Past, Present and Future”** organized by Institute of Environmental Science and Engineering, NUST, on 31st December 2005.
3. Short course on **“Nuclear Engineering”** organized by Institution of Engineers Pakistan Karachi Center on 25th September, 2004.
4. One day seminar on **fire and disaster control** organized by The Institution of Engineers Pakistan Karachi on 12th Nov 2001.
5. International Symposium on **“Solid Waste Management”** organized by Environmental Engineering Department of NED University of Engineering & Technology, Karachi on 20th October, 2001.
6. National Seminar on **“Water Desalination at Karachi”** organized by NED University of Engineering & Technology, Karachi on 1st October, 2001.
7. Third International Seminar on **“Engineering Materials”** organized by Pakistan Material Research Society- 13-14 Nov 2000.

12. Articles in Professional Magazine

Articles in Professional Magazine

1. **Sea's intrusion into the Sindh coastal belt-SANGAT**; VOL. XVIII NO III-IV(Fall Winter 2002) <<http://www.sanalist.org/Sangat2003.htm> >
2. **Production of Motor fuel from Molasses-** Pakistan and Gulf Economist; Sep 20 - 26, 2004.
3. **Polymer in Modern life-** Pakistan and Gulf Economist; Nov 01 - 07, 2004.
<<http://www.pakistaneconomist.com/page/issue44/etc3.htm>>

4. **Nemesis effects of fertilizer on country's water resources-** Pakistan and Gulf Economist; Nov 08 - 14, 2004. <<http://www.pakistaneconomist.com/page/issue45/etc4.htm>>
5. **Clean Coal Technologies-** Pakistan and Gulf Economist; May 16 - 22, 2005.
6. **Reducing vehicle emissions in big cities-** Energy update, May 2007
7. **Power for clean environment-** Energy update, June 2007
8. **Integrated Power Production from plants-** Energy update, Oct-Nov 2007
9. **Fertilizer industry: Coal can be a good option-** Fortnightly Engineering Review, Vol. 32 (20), Nov 08, 2007
<http://engineeringreview.com.pk/index.php?option=com_content&task=view&id=78&Itemid=1&ed=8>
10. **An analysis of Pakistan's energy security-** Energy update, February 2008
11. **Ethanol and bio-diesel: Fuels or threats to food security?** Online Journal, Apr 14, 2008
<http://onlinejournal.com/artman/publish/article_3168.shtml>

13. Articles in Newspapers

1. **Land degradation in Sindh** (Dawn Economic & Business Review- Oct 21-27, 2002).
<<http://www.dawn.com/2002/10/21/ebr7.htm>>
2. **How crucial Ozone layer is for life** (Dawn Sciencedotcom- Nov 02, 2002).
<www.dawn.com/weekly/science/archive/021102/science2.htm>
3. **Seas intrusion into the Sindh coastal belt** (Dawn Economic & Business Review- Dec 09-15, 2002).
4. **Decline of the Mangrove** (Dawn Sunday Magazine, July 27, 2003).
<www.dawn.com/weekly/dmag/archive/030727/dmag10.htm>
5. **What Chemical engineering has in store for you** (Dawn Sci-tech World, Feb7, 2004).
<www.dawn.com/weekly/science/archive/040207/science5.htm>
6. **Impact of the climate change** (Dawn Sci-tech World, May08, 2004).
<www.dawn.com/weekly/science/archive/040508/science1.htm>
7. **Management and disposal of agricultural drainage water** (Dawn Sci-tech World, July03, 2004). <www.dawn.com/weekly/science/archive/040703/science7.htm>
8. **Beautiful ecosystem under stress** (Dawn Sci-tech World, August07, 2004).

- www.dawn.com/weekly/science/archive/040807/science1.htm
9. **Pakistan's coal resources** (Dawn Economic & Business Review- Sep-20-26, 2004).
<http://www.dawn.com/2004/09/20/ebr10.htm>
 10. **Biogas fuel: cheap and environment friendly** Dawn Sci-tech World, October 16, 2004).
www.dawn.com/weekly/science/archive/041016/science1.htm
 11. **Thar's stake in coal project** (Dawn Economic & Business Review- Jan 24-31, 2005).
<http://www.dawn.com/2005/01/24/ebr11.htm>
 12. **Mangrove forests: a natural defence against tsunami** (Dawn Economic & Business Review- Feb14-20, 2005). <http://www.dawn.com/2005/02/14/ebr14.htm>
 13. **Windmills resurfacing** (Dawn Economic & Business Review- Feb28-March06, 2005).
<http://www.dawn.com/2005/02/28/ebr12.htm>
 14. **Expecting unexpected** (Introduction to Biochemical Engineering) (Dawn Sci-tech World, March 19, 2005).
www.dawn.com/weekly/science/archive/050319/science10.htm
 15. **Water flows downstream Kotri** (Dawn Economic & Business Review- April 18-48, 2005). <http://www.dawn.com/2005/04/18/ebr11.htm>
 16. **Developing coal resources** (Dawn Economic & Business Review- June13-19, 2005).
<http://www.dawn.com/2005/06/13/ebr13.htm>
 17. **Producing petrol from molasses** (Dawn Economic & Business Review- June27-July03, 2005). <http://www.dawn.com/2005/06/27/ebr12.htm>
 18. **Wind Energy: Full speed ahead** (Dawn Sci-tech World, August13, 2005).
www.dawn.com/weekly/science/archive/050813/science11.htm
 19. **Human and Environmental Problems in Shipbreaking** (Dawn Economic & Business Review- August14-21, 2005). <http://www.dawn.com/2005/08/16/webr/ebr11.htm>
 20. **Focusing on coal for power generation** ((Dawn Economic & Business Review- October03-10, 2005) <http://www.dawn.com/2005/10/03/ebr8.htm>
 21. **Occupational hazards** (Dawn Economic & Business Review- October31-Nov06, 2005)
<http://www.dawn.com/2005/10/31/ebr14.htm>
 22. **Coal as fuel for fertilizer industry** (Dawn Economic & Business Review- Nov21-27, 2005) <http://www.dawn.com/2005/11/21/ebr10.htm>

23. **Coal liquefaction to the rescue** (Dawn Sci-tech World, January 7, 2006)
<www.dawn.com/weekly/science/archive/060107/science3.htm>
24. **Efficient water use improves agriculture production** (Dawn Economic & Business Review- January 16-22, 2006) <www.dawn.com/2006/01/16/ebr8.htm>
25. **Seawater intrusion downstream Kotri** (Dawn Economic & Business Review- January 30- Feb05, 2006) <www.dawn.com/2006/01/30/ebr9.htm>
26. **A time to change** (Dawn Sci-tech World, February 25, 2006)
<www.dawn.com/weekly/science/archive/060225/science10.htm>
27. **Land reforms for poverty reduction** (Dawn Economic & Business Review-March 27-April 02, 2006) <www.dawn.com/2006/03/27/ebr14.htm>
28. **Natural gas supplies critical for effective economic growth** (Dawn Economic & Business Review-May 8-14, 2006) <www.dawn.com/2006/05/08/ebr8.htm>
29. **New horizons beckon** (Hydrogen fuel production) (Dawn Sci-tech World, July 08, 2006)
<www.dawn.com/weekly/science/archive/060708/science10.htm>
30. **Small hydro-power units for remote villages** (Dawn Economic & Business Review-August 28-Sept 03, 2006) <www.dawn.com/2006/08/28/ebr15.htm>
31. **Inventive use of traditional fuel** (Dawn Economic & Business Review-Sept. 11-17, 2006) <www.dawn.com/2006/09/11/ebr8.htm>
32. **An efficient stove** (Dawn Sci-tech World, September 23, 2006)
<www.dawn.com/weekly/science/archive/060923/science9.htm>
33. **Climbing the energy ladder** (Dawn Economic & Business Review-Nov. 20-26, 2006)
<www.dawn.com/2006/11/20/ebr7.htm>
34. **Ecologically destructive projects on Karachi coast** (Dawn Economic & Business Review-Nov. 27-Dec 03, 2006) <www.dawn.com/2006/11/27/ebr10.htm>
35. **Improving chemical engineering** (Dawn Sci-tech World, Jan 06 , 2007)
<www.dawn.com/weekly/science/archive/070106/science10.htm>
36. **Reducing vehicle emissions in big cities** (Dawn Economic & Business Review-March 12- 18, 2007) <www.dawn.com/2007/03/12/ebr9.htm>

- 37. Enhancers: boosting energy, cutting costs** (Use of octane enhancers in petrol) (Dawn Sci-tech World, March 17, 2007)
<www.dawn.com/weekly/science/archive/070317/science1.htm>
- 38. Himalayan glacier depletion hitting the economy** (Dawn Sci-tech World, March 31, 2007) <www.dawn.com/weekly/science/archive/070331/science2.htm>
- 39. Producing shrub based bio-diesel** (Dawn Economic & Business Review-May 07-14, 2007) <www.dawn.com/2007/05/07/ebr.htm>
- 40. Bio-diesel: an alternative source** (Dawn Sci-tech World, May 12, 2007)
<www.dawn.com/weekly/science/archive/070512/science2.htm>
- 41. Ensuring energy security** (Dawn Economic & Business Review-June 11-18, 2007)
<www.dawn.com/2007/06/11/ebr10.htm>
- 42. In quest of more power** (Dawn Sci-tech World, August 25, 2007)
<www.dawn.com/weekly/science/archive/070825/science7.htm>
- 43. Coal-based power** (Dawn Economic & Business Review-March 10-16, 2008)
- 44. Alternative energy sources for rural areas** (Dawn Economic & Business Review-April 21-27, 2008)
- 45. Opting for coal-fired fertiliser plants** (Dawn Economic & Business Review-June 30-July06, 2008)
- 46. Need for rural hydro-power units** (Dawn Economic & Business Review-June 30-July06, 2008)
- 47. Energy efficiency policy to save consumers' money** (Dawn Economic & Business Review- December 15-21, 2008)
- 48. Impurities in Thar ground water** (Dawn Economic & Business Review-September 15-21, 2008)
- 49. Energy efficiency policy to save consumers' money** (Dawn Economic & Business Review- December 15 -21, 2008)
- 50. Are we really saving anything?** (Dawn Images- Sunday, 26 Apr, 2009)
- 51. Options for coal-based power projects** (Dawn Economic & Business Review-November 23-29, 2009)
- 52. Lifestyle and energy consumption** (Dawn Economic & Business Review-April 26-May 02, 2010)