

Name: **Prof. Dr. Shamsul Haque Alvi**

Academic Rank: Professor

Office: College of Engineering, 28- 111

Phone: +973 1787 6062

Fax: +973 1768 0843

E-mail: salvi@eng.uob.bh

Website: www.alvishams.com



EDUCATION:

- Ph.D., Civil Engineering (Hydraulics), Indian Institute of Science, Bangalore, India, 1975
- M.Sc. Engineering, Civil Engineering (Hydraulic Structures), A.M.U., India, 1968
- Gr.I.E., Civil Engineering, I.E., India, 1964
- B.Sc., Lucknow University, India, 1956

EXPERIENCE:

Academic Appointment at UOB

- Professor, 1997 till date
- Associate Professor, 1986
- Assistant Professor, 1984

Other Related Experience

- Assistant Professor, KSU, Riyadh, 1980-1984
- Assistant Professor, UOA, Tripoli, Libya, 1978-1980
- Reader, AMU, India, 1978
- Lecturer, AMU, 1965

Professional Certification

Chartered Engineer, Institution of Engineers, India, 1977

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

- Member, American Society of Civil Engineers
- Member, American Society for Engineering Education
- Member, International Water Resources Association
- Member, International Association for Hydraulic Research
- Life Member, Institution of Engineers, India
- Member, Technical Committee 9, FLOMEKO, International Measurement Confederation, IMEKO

INSTITUTIONAL AND PROFESSIONAL SERVICES:

- Member, College of Engineering Council, UOB
- Member, College of Engineering Academic Committee, UOB
- Member, College of Engineering Promotion committee, UOB
- Advisor to the Dean for Student Affairs, College of Engineering, UOB
- Coordinator, Civil Engineering Section, Department of Civil Engineering and Architecture, UOB
- Chairman, Academic Committee, Department of Civil Engineering and Architecture, UOB
- Chief Advisor, Department of Civil Eng. and Architecture, UOB

- Founder Member, Member of Board Trustees and Head of the Educational Committee until mid-nineties, Ibn -al- Hythem Islamic School, Bahrain
- Member of Board of Trustees and Head of the School Management, Pakistan Urdu School

HONORS AND AWARDS:

- Award of Excellence in Teaching and Research, UOB, 1997.
- Award of Excellence for Community Service, AL-SAQAFI, the Pakistan Association, Bahrain, 1997.
- Honors for Standing First in order of Merit, M.Sc. Engineering, AMU, India, 1968.

PROFESSIONAL DEVELOPMENT ACTIVITIES:

- Supervision of M.Sc. theses
- Supervision of Ph.D. thesis
- Examiner of Ph.D. thesis
- Given Short courses

RESEARCH INTERESTS:

- Water Resources Engineering
- Flow Measurement
- Global Warming
- Climatic Variability and Desertification

REVIEWER OF JOURNALS

- Journal of WATER INTERNATIONAL, IWRA, USA.
- JKU, Engineering Sciences, King Saud University, Riyadh, Saudi Arabia.
- Engineering Journal, Qatar University, Qatar.
- Journal of Measurement, International Measurement Confederation, IMEKO.

BBC INTERVIEW

On Global Warming in the Arabian Gulf Region, BBC Worldwide, Cambridge, UK, April 9, 2001.

PUBLICATIONS:

1. Alvi, S.H., Earthquake Effects in Gravity Dams, Journal of College of Engineering and Technology, Aligarh Muslim University, India. Vol. XVIII, 1967-68, pp.1-5.
2. Alvi., S.H., Sridharan, K. and Lakshmana Rao, N. S., Standardization of Quadrant-Edged Orifice Meters, ISI-Bulletin, Indian Standards Institution, Vol. 28, No. 9, September 1976, pp. 1 -4.

3. Lakshmana Rao, N.S., Sridharan, K. and Alvi, S.H., Critical Reynolds Number for Orifice and Nozzle Flows in Pipes. *Journal of Hydraulic Research, International Association for Hydraulic Research, Delft, Netherlands*. Vol. 15, No 2, 1977, pp .167-178.
4. Alvi, S.H. Sridharan, K. and Lakshmana Rao, N.S., Nozzle Flows at Low and Moderate Reynolds Numbers. *Journal of the Indian Institute of Science, Bangalore*, Vol. 59, No. 5, May 1977, pp.169-184.
5. Alvi, S.H., Sridharan, K. and Lakshmana Rao N.S., Comparative Study of Quadrant-Edged Orifices and Nozzles. *Proceedings of FLOMEKO 1978, IMEKO (International Measurement Confederation) Conference on Flow Measurement of Fluids, Groningen, the Netherlands, September 1978, North-Holland Publishing Company, Amsterdam*, pp. 279-285.
6. Alvi., S.H., Sridharan, K. and Lakshmana Rao, N.S., Loss Characteristics of Orifices and Nozzle. *Journal of Fluids Engineering, Transactions of the American Society of Mechanical Engineering*, Vol. 100, September 1978, pp. 299-308.
7. Sendil, U. Salih, A.M.A., and Alvi, S.H., Hydrologic Characteristics of Wadi Hanifa, Part 1. *Symposium on Water Recourses in the Kingdom of Saudi Arabia, Managements, Treatment and Utilization, King Saud University, Riyadh*, Vol. 1, Hydrology, 17-20 April 1983, pp. A-1 to A-14.
8. Sendil, U., Salih, A.M.A., and Alvi, S.H., Hydrologic Characteristics of the Wadi Hanifa, Part 2. *Symposium on Water Resources in the Kingdom of Saudi Arabia, Management, Treatment and Utilization, King Saud University, Riyadh*, Vol. 1, Hydrology, 17-20 April 1983, pp. A-40 to A-52.
9. Alvi, S.H., Contraction Coefficient of Pipe Orifices. *Proceedings of FLOMEKO 1983, IMEKO (International Measurement Confederation) Conference on Flow Measurement, Budapest, September 1983, North-Holland Publishing Company, Amsterdam, 1984*, pp. 213-218.
10. Alvi, S.H. et al, Hydrologic Characteristics of Wadi Hanifa, *Research Report No. CE-2/1404, Research Center, College of Engineering, King Saud University, Riyadh, 1983*, 263 pages.
11. Alvi, S.H., Hydrologic Characteristics of Bahrain, *Proceedings of the International Conferences on Water Resources Needs and Planning in Drought Prone Areas, Sponsored by*

International Association for Hydraulic Research (IAHR)/UNESCO/YBDP, Khartoum, Sudan, 6-12 December 1986, Vol. 1, pp. 571-583.

12. Abdalla, Y.A.G and Alvi, S.H., Low Level Wind Velocity Profiles in Bahrain, Proceedings of Cairo International Symposium on Renewable Energy Resources, Cairo, Egypt, June 1988.
13. Alvi, S.H. and Abdalla, Y.A.G., Variation of Wind Speed with Height in Bahrain, Proceedings of the 23rd Inter Society Energy Conversion Engineering Conference, The American Society of Mechanical Engineers (ASME), Denver, USA., Vol. 4, July 31-August 5, 1988, pp. 21-26.
14. Alvi, S.H. Jaffar, B. and Hassan, N., Meteorological Characteristics of Bahrain, Proceedings of the First Regional Conference in Civil Engineering-89, Sponsored by UNESCO/University of Bahrain, March 1989, pp. VIII. 1-3.
15. Alvi, S.H., Meteorological Characteristics of Oman, Proceeding of the First Regional Conference in Civil Engineering-89, Sponsored by UNESCO/University of Bahrain, March 1989, pp. VIII. 21-35.
16. Alvi, S.H., Choice of Quadrant-Edged Orifice Meters for Low and Moderate Reynolds Numbers, Proceedings of the 5th International Conference on Flow Measurement, FLOMEKO, Organized by IMEKO, Gesellschaft Mess-und Automatisierungstechnik (GMA), VDI Berichte 768, Verein Deutscher Ingenieure, Dusseldorf, Germany, October 1989, pp. 107-117.
17. Alvi, S.H., Hydrological Characteristics of Some Coastal Drainages of Oman – Case Studies, Proceedings of the 5th International Conference on Urban Storm Drainage, Sponsored by IAHR/IAWPRC/Japan Society of Hydrology & Water Resources/Japan River Association/Japan Sewage Association/Urban Water Resources Research Council/ASCE, Osaka, Japan, July 23-27, 1990 Vol. 2, pp. 653-655.
18. Alvi, S.H., and Abdalla, Y.A.G., The Vertical Low Level Wind Speed Profiles Over Bahrain, Wind Engineering, UK., Vol. 14, No. 6, 1990, pp. 374-386.
19. Alvi, S.H., and Abdalla, Y.A.G., Estimation of Solar Radiation for Oman, International Journal of Ambient Energy, UK., Vol. 13, No. 1 January 1992, pp. 11-18.

20. Abdalla, Y.A.G., and Alvi, S.H., A Study of Wind Profiles and Friction Layers in Bahrain, Energy Conversion and Management, UK., Vol. 33, No. 4, 1992, pp. 257-262.
21. Alvi, S.H., Estimation of Solar Radiation for Mid-Western Regions of Sudan, International Journal of Ambient Energy, UK., Vol. 15, No. 1, January 1994, pp. 9-16.
22. Alvi, S.H., Climatic Changes, Desertification and the Republic of Sudan, GeoJournal, Germany, Vol. 33, No. 4, August 1994, pp. 393-399.
23. Alvi, S.H., and Elagib, N.A., Hydrological Behaviour of the Swampy Region of Southern Sudan, Proceedings of International Conference on Water Management in Arid Countries, Organized by IWRA/UNESCO, Muscat, Oman, 12-16 March 1995, pp. 735-741.
24. Alvi, S.H., and Elagib, N.A., Estimation of Solar Radiation for the Republic of Sudan, International Journal of Ambient Energy, UK., Vol. 16, No. 2, April 1995, pp. 67-75.
25. Alvi, S.H. and Elagib, N.A., Impact of Environmental Changes on Rainfall Pattern and Aridity in Eastern Sudan, Proceedings of 7th Rainwater catchments Systems Conference, sponsored by IRCSA Japan/UNEP/Chinese Academy of Sciences, Beijing, China, June 19-25, 1995. pp. 3-82 to 3-98.
26. Alvi, S.H., Climatic Changes in Bahrain, GeoJournal, Germany, Vol. 37, No. 1, September 1995, pp.45-50.
27. Alvi, S.H., Climatic Changes and Desertification in Some Regions of the Middle East, GeoJournal, Germany, Vol. 37, No.4, December 1995, pp. 483-488.
28. Alvi, S.H., Buali, A.R. and Al-Sayed, M.H., Bahrain, its Hydrologic and Environmental Variations and Aridity, Wurzbuger Geographische Manuskripte, Wurzburg, Germany, Heft, ISSN: 0931-8623, 1995, pp. 169-182.
29. Alvi, S.H. and Elagib, N.A., Global Warming and the Regions in the Middle East, 7th Global Warming International Conference, Organized by Global Warming International Center, U.S.A./Austrian Academy of Sciences, Vienna, Austria, April 1-3, 1996. (Key Paper).
30. Elagib, N.A., Alvi, S.H., Study of Hydrology and Drought in Central Sudan, Proceedings of the Second International Conference in Civil Engineering on Computer Applications, Research Practice, organized by University of Bahrain and sponsored by UNESCO/The British Council/ASCE/American

Concrete Institute, Bahrain, 6-8 April, 1996, Vol. 2, pp. 653-659.

31. Alvi, S.H. and Elagib, N.A., Study of Hydrology and Drought in the Flood Region of Sudan, WATER International, U.S.A., Vol. 2, No. 2, June 1996, pp. 75-82.
32. Alvi, S.H. and Abdalla, Y.A.G., Systems and Methodologies of Engineering Education and Strategies adopted in the Arabian Region, Case study of Bahrain, International Conference on Global Challenges in Education, Role of Islamic Countries, 19-22 May, 1997, Kuala Lumpur, Malaysia.
33. Elagib, N.A., Babiker, S.F., and Alvi, S.H., New Empirical Models for Global Solar Radiation over Bahrain, Energy Conversion and Management, U.K., Vol. 39, No. 8, January 1998, pp. 827-835.
34. Elagib, N.A., Alvi, S.H., Mansell, M.G., Day-Length and Extraterrestrial Radiation for Sudan, International Journal of Solar Energy, U.K., 1999.Vol. 20. pp. 93-109.
35. Elagib, N.A., Alvi, S.H., Mansell, M.G., Correlations between Clearness Index and Relative sunshine Duration for Sudan, Renewable Energy, U.K. No.17 (1999), pp. 473-498.
36. Alvi, S.H., Some Regions of the Middle East in the Context of Global Climate Changes, Proceedings of the International Conference on Environmental Challenges for the New Millennium, International Conference (ECNM'99), New Delhi, 25-27 Nov. 1999.
37. Alvi, S.H., Climate Changes in Bahrain & the Regions of AGCC Countries Around it, 11th Global Warming International Conference, Boston, U.S.A., April 25-28, 2000. (Key paper).
38. Alvi, S.H., Exploring Trends and Anomalies in Recent Decades in Temperature and Rainfall in Bahrain, 12th global Warming international Conference, Cambridge, U.K., April 2001. (Key paper)
39. Alvi, S.H., Bahrain in the Global Warming Map, J.I.E. Pakistan, July 2005.
40. Alvi, S.H., Investigating Warming Phenomenon in the Arabian Gulf Region: Case Study for Dubai (UAE) and Salalah (Oman), 17th Global Warming International Conference, Miami, USA, April 19-21, 2006.