



Prof. Abdulaziz Abdullah I. Alhamid

*BSc, MSc and PhD in civil engineering,
King Saud University, College of Engineering
Civil Engineering Department
P.O. Box 800, Riyadh 11421
Tel +966 1 4677022
Fax: +966 1 4677008
e-mail: aalhamid@ksu.edu.sa*

Major : *Water Resources and Hydraulics*

Academic Rank: Professor

Nationality: Saudi

Languages: Arabic and English

DEGREES:

- | | |
|-------------|--|
| B.Sc.in CE | King Saud University, College of Engineering, Riyadh, Saudi Arabia, 4 /9 / 1404 Hijra 5 / 6 /1984 Gregorian |
| M.Sc. in CE | King Saud University, College of Engineering, Riyadh, Saudi Arabia, 27 /10/1407 Hijra 23 / 6 / 1987 Gregorian |
| Ph.D. in CE | Birmingham University, College of Engineering, Birmingham, United Kingdom, 4 /1 / 1412 Hijra 15 / 7 / 1991 Gregorian |

EMPLOYMENT AND ADMINISTRATIVE HISTORY

- | | |
|------------------------|---|
| -5/2/2005- till now | Dean of College of Engineering – KSU |
| -6/7/1999 - 22/5/2003 | Chairman, Civil engineering department, College of Engineering., KSU. |
| -12/2003 – till now | Professor, Civil engineering department, College of Engineering., KSU. |
| -27/3/1996 -12/2003 | Associated Professor, Civil engineering department, College of Engineering., KSU. |
| -3/12/1991 - 26/3/1996 | Assistant Professor, Civil engineering department, College of Engineering., KSU. |
| -20/7/1987 - 2/12/1991 | Lecturer, Civil engineering department, College of Engineering., KSU. |
| -4/7/1984 - 19/7/1987 | Teaching Assistant, Civil engineering department, College of Engineering., KSU. |

COMMITTEES AND COUNCILS:

- | | |
|---------------------|--|
| -5/2/2005- till now | Member, council (board of trustee) of KSU. |
|---------------------|--|

-5/4/2005- till now	Member, council of assessment and accreditation administration, KSU.
-5/2/2005- till now	Head, council of the college of engineering, KSU.
-5/2/2005- till now	Head, symposia and short courses Committee, College of Engineering., KSU.
-6/2005- till now	Head, council of assessment and accreditation unit, COE, KSU.
-8/2005- till now	Head, Strategic plan committee, COE, KSU.
-14/8/2000 – 14/8/2001	Member, symposia and short courses Committee, College of Engineering., KSU.
-2/11/1993 – 18/6/1996	Head, Sports Committee in College of Eng., KSU.
-27/10/1991 - 30/10/1993	Convenor, Water Resources Group, Civil Engineering Dept., KSU.
-2/11/1994 - 25/9/1999	Member, Laboratories requirements committee in Civil Engineering Department, KSU.
-5/11/1993 - 6/7/1999	Hydraulic Laboratory Supervisor, Civil Engineering Department, KSU.
-6/7/1999 - 22/5/2003	Member, Council of College engineering, KSU.
-6/7/1999 - 22/5/2003	Chairman, Council of the Civil Engineering Department, College of engineering, KSU.
-3/12/1991 - till now	Member, Council of the Civil Engineering Department Council, College of engineering, KSU.

MEMBERSHIP OF SCIENTIFIC ASSOCIATIONS:

- Member of ASCE since 1992.
- Member of IAHR (International Association of Hydraulic Research) since 1992.
- Member of SSCE(Saudi Society of Civil Engineering).

UNIVERSITY AND COMMUNITY SERVICE:

- Member of scientific committee, International Conference on Engineering Education (**ICEE 2006**) under the theme: "Towards an Engineering Education that Achieves Future Ambitions", 4-6 March 2006, Qassim University.
- Member of the expert committee, Prince Sultan Bin Abdulaziz Prize for water, Riyadh, 2004.
- Member of the winner selection committee, Prince Sultan Bin Abdulaziz Prize for water, Riyadh, 2004.
- Member of license of private higher education, ministry of higher education, Riyadh, 2005-till now.
- Member of Committee of Academic Equivalence of University Diplomas – Ministry of Higher Education, 2004 till now.
- Member, Examination Committee, aptitude exam conducted by the National Center for Assessment in Higher Education, Riyadh Center, June 2002.

- Vice Chairman, Examination Committee, aptitude exam conducted by the National Center for Assessment in Higher Education, Dawadme Center, May, 2003 and June, 2003.
- Chairman, Examination Committee, aptitude exam conducted by the National Center for Assessment in Higher Education, Dawadme Center, March, 2004 and June, 2004.
- Chairman, Examination Committee, aptitude exam conducted by the National Center for Assessment in Higher Education, Dawadme Center, Feb., 2005 and June, 2005.
- Member of the steering committee, Second International Conference of Geotechnical and Geoenvironmental Engineering in Arid Zones, college of engineering, King Saud university, Riyadh, 2002.
- Member of the steering committee, First Saudi Symposium on Earthquake Engineering, College of engineering, King Saud university, Riyadh, 17-20/9/2000.
- Member of the Committee for the preparation of the Ph.D. program in Water Resources and Hydraulic in Civil Engineering Department, KSU.
- Member of the Committee for the renewal of the MSc. program in Water Resources and Hydraulics in Civil Engineering Department, KSU.
- Supervised many graduation projects in Hydraulics, KSU.
- Member of Examination Committees for graduation projects in Water Resources and Hydraulics, KSU.
- Part time consultant for Arriyadh Development Authority (ADA) from 1994 till now. This includes ;
 - Review of Hydraulic design of different project in Riyadh city.
 - Design of dry and flood flow channel of Wadi Hanifa.
 - Flood forecasting for Wadi Hanifa and its tributaries.
 - Participate at different stages of MidStar plan for Riyadh city.
 - Member of the Comprehensive plan of Wadi Hanifa team.
 - Design of the monitoring and measurement program of flow through Wadi Hanifa.
- Writing a number of articles in daily newspaper in topics related to water resources and engineering.

AWARDS AND SCHOLARSHIPS

2005	Prize of HRH Prince Sultan Bin AbdulAziz for outstanding research paper submitted to the ninth International Water Technology Conference, Egypt
2000 – Now	A listee of Marquis Who'sWho in the world Biographee from 17 th edition in 2000, USA
1989 – 1991	Scholarship from King Saud University for Ph.D in the UK
1987	First Class Honor from King Saud University for graduating with a GPA of 5 out of possible 5.0 on MSc in Civil Engineering.
1984	Second Class Honor from King Saud University for graduating with a GPA of 4.52 out of possible 5.0 (BSc in Civil Engineering).

PUBLICATIONS

JOURNALS AND REFERRED CONFERENCES

- **Alhamid, A. A.**, Boundary Shear Stress and Velocity Distributions in Differentially Roughened Trapezoidal Open Channels, Unpublished Ph.D. Thesis, University of Birmingham, Birmingham, UK, 1991.
- **Alhamid, A. A.**, Spectral Analysis of Bed Shear Stress in Curved Channels, Unpublished Master Thesis, King Saud University, Riyadh, 1987.
- **Alhamid, A. A.** Scour Around Bridge Piers, Unpublished B.Sc. graduation Project, King Saud University, Riyadh, 1984.
- **Alhamid, A. A.**, Husain, D. and Negm, A. M., "Prediction of the Sequent Depth Ratio of Hydraulic Jump on Rough Sloping Channel Floors", Irrigation and Power Journal, Vol. 51, No. 2, April 1994, India, pp. 13-20.
- **Alhamid, A. A.**, "Stochastic Simulation of Bed Shear Stress Distributions on Smooth Trapezoidal Channels", Faculty of Engineering Scientific Bulletin, Ain-Shams University, Vol. 29, Part 2, 1994, Egypt.
- Husain, D., **Alhamid, A. A.** and Negm, A. M., "Length and Depth of Hydraulic Jump in Sloping Channels", Journal of Hydraulic Research, IAHR, Vol. 32, No. 6, 1994, Delft, The Netherlands, pp. 132-144.
- Negm, A. M., El-Saiad, A., **Alhamid, A. A.** and Husain, D., "Characteristics of Simultaneous Flow Over Contracted Weir and Below Inverted V-Notches", Civil Eng. Research Magazine, Faculty of Eng., Al-Azhar Univ., Vol. 16, No. 9, 1994, Egypt, pp. 786-799.
- Husain, D., Negm, A. M. and **Alhamid, A. A.**, "Criteria for Dynamic Flow Behavior Below the Vibrating Sluice Gates", Journal of King Abdulaziz University-Engineering Sciences, Vol. 10, No. 2, 1998, Jeddah, Saudi Arabia, pp. 77-97.
- **Alhamid, A. A.**, Husain, D. and Negm, A. M. "Discharge Equation for Combined Flow Over Rectangular Weirs and Below Inverted Triangular Weirs", Arab Gulf Journal of Scientific Research, Vol. 14, No. 3, Riyadh, Saudi Arabia, 1996, pp. 595-607.
- **Alhamid, A. A.** and Negm, A. M., "Depth Ratio for Hydraulic Jump in Stilling Basins", Journal of Hydraulic Research, IAHR, Vol. 34, No. 5, 1996, pp. 597-604.
- **Alhamid, A. A.**, Negm, A. M., and Al-Brahim, A. M., "Discharge equation for proposed self-cleaning device", Journal of King Saud University, Engineering Science, Riyadh, Saudi Arabia, Vol. 9, No. 1, 1997, pp. 13-24.
- Negm, A. M., El-Saiad, A. and **Alhamid, A. A.**, "Prediction of Sequent Depth Ratio of the Free Hydraulic Jump with Positive and Negative Steps", Civil Eng. Research Magazine, Faculty of Eng., Al-Azhar Univ., Vol. 16, No. 9, 1994, Egypt, pp. 774-785.
- Matin, A. M. Negm, A. M., El-Saiad, O. K. and **Alhamid, A. A.**, " Prediction of Depth Ratio at Sudden Expansion", Egyptian Journal for Engineering Sciences and Technology, Vol. 2, No. 1, 1997, Egypt, pp. 31-36
- Matin, A. M. Negm, A. M. and **Alhamid, A. A.**, " Predicting the Effect of Sediment withdrawal from Alluvial Channels", Sudan engineering Society Journal, Vol. 45, No. 37, 1998.

- **Alhamid, A. A.** and Matin, A. M., "Fluvial Stage-Discharge Rating of Wadi Hanifa Main Channel ", Journal of King Saud University, Engineering Science, Riyadh, Saudi Arabia.
- **Alhamid, A. A.**, "Coefficient of discharge for free flow sluice gates", Journal of King Saud University, Engineering Science, Riyadh, Saudi Arabia, Vol.11, No. 1, 1999, pp. 33 –48.
- **Alhamid, A. A.**, "Analysis and formulation of flow through combined v-notch-gate device", Journal of Hydraulic Research, IAHR, Delft, The Netherlands, Vol. 37, No. 5, 1999, pp 697-705.
- **Alhamid, A. A.**, "S-Jump characteristics on sloping basins", Journal of Hydraulic Research, IAHR, Delft, The Netherlands, Vol. 42, No. 6, 2004.
- Matin, M. A., **Alhamid, A. A.** and Negm, A. M., "Modeling of depth ratio of hydraulic jumps in expanding channels", Civil Engineering Research Magazine, Faculty of Engineering, Al-Azher University, Cairo, Egypt, Vol. 22, No. 1, 2000, pp. 250-260.
- **Alhamid, A. A.**, Negm, A. M., Abdwl-Aal, G. M. and Matin, M. A., "Effect of submergence an slopes of polygonal under-gate sill on discharge characteristics of submerged subcritical flow", Egyptian Journal for Engineering Sciences and Technology, Zagazig university, Egypt, Vol. 6, No. 1, 2002, pp. 61-81.
- **Alhamid, A. A.**, "Weirs and gates in circular cross section channels", Dirasat Journal, Engineering Sciences, Jordan, Vol. 29, No. 1, 2002, pp. 31-40.
- Negm, A. M., Al-Brahim, A. M. and **Alhamid, A. A.**, "Combined-free flow over weirs and below gates", Journal of Hydraulic Research, IAHR, Delft, The Netherlands, Vol. 40, No. 3, 2002, pp 359-365.
- **Alhamid, A. A.**, "S-Jump characteristics on sloping basins", Journal of Engineering and Applied Science, Cairo university, Egypt, Egypt, Vol. 50, No. 1, 2003.
- **Alhamid, A. A.**, Negm, A. M., Abdwl-Aal, G. M. and Matin, M. A., "Effect of variable tail water on submerged supercritical flow below silled gates", Civil Eng. Research Magazine, Faculty of Eng., Al-Azhar Univ., Egypt, Vol. 23, No. 1, 2001, pp. 199-220.
- **Alhamid, A. A.**, "Sediments, water quality and vulnerability of water resources", 8th Regional IHP Meeting for the Arab region and Workshop on Wadi Hydrology, Beirut, 28 Sep.-1 Oct., 1999.
- **Alhamid, A. A.**, "Effective Roughness on Sloping Rectangular Stilling Basins", Proc. of Modeling, Testing and Monitoring for Hydropower Plants Conference, Budapest, Hungary, July, 1994.
- Negm, A. M., Al-Sayed, A. and **Alhamid, A. A.**, "Structure of Ten-Days Natural Flows of the River Nile", 5th International Conference on Hydraulic Engineering Software, Hydrossoft 94, Porto Carras, Greece, Vol. 1, Sept. 1994.
- **Alhamid, A. A.**, "Effective Roughness on Horizontal Rectangular Stilling Basins", 5th International Conference Hydraulic Eng. Software, Porto Carras, Greece, Vol. 2, Sept. 1994.
- Knight, D. W., **Alhamid, A. A.** and Yuen, K., "Boundary Shear Stress in Differentially Roughened Trapezoidal Channels", Proc. of 2nd Int. Conf. on Hydraulic and Environmental Modelling of Coastal , Estuarine and River Waters", University of Bradford, Sept. 1992, U.K.

- Negm, A. M., Al-Turbak, A. S., **Alhamid, A. A.** and El-Sayed, A. H., "Analyzing and Forecasting the Ten-Days Natural Flows of the Blue Nile Using Periodogram Technique", 7th Int. Conf. on Computational Methods and Experimental Measurements, May 1995, Capri, Italy.
- **Alhamid, A. A.**, Negm, A. M. and Abdel-Aal, G. M., "Prediction Equation for Hydraulic Jump Properties Down Stream Silled-Sluice Gates", Int. R&D Conf. Water and Energy 2001, New Delhi, India, Oct. 9-12, 1995.
- Matin, A. M., **Alhamid, A. A.** and Negm, A. M., "Prediction of Sequent Depth Ratio of Hydraulic Jump in Abruptly Expanding Channel", Int. Conf. On Hydro-Science and Engineering, ICHE98, Vol. III, Cottbus, Germany, 31 Aug.- 3 Sep., 1998.
- Negm, A. M., **Alhamid, A. A.** and Matin, A. M., "Submerged Flow Below Sluice Gate with Sill", Int. Conf. On Hydro-Science and Engineering, ICHE98, Vol. III, Cottbus, Germany, 31 Aug.- 3 Sep., 1998.
- Negm, A. M., Abdel-Aal, G.M., Matin, A. M. and **Alhamid, A. A.**, "Discharge Equation for Free and Submerged Flow Through Combined Weir", Al-Azhar Engineering 3rd Int. Conf., Al-Azhar University, AEIC-97, Cairo, Egypt, Dec. 19-22, 1997.
- **Alhamid, A. A.**, "Analysis and Formulation of Flow through Combined V-Notch -Gate Device", Fifth Saudi Engineering Conference, Umm Al Qura, Makkah. 1999.
- **Alhamid, A. A.**, "Discharge measurements in sewers using combined weir-gate device", Proceedings of the 8th international conference on hydraulic engineering software, Hydrosoft 2000, Estoril, Portugal, 12-14 June, 2000, pp. 133-142.
- **Alhamid, A. A.**, "A conservative in-house potable water distribution system", International Conference on Water Resources and Arid Environment (2004) – 5-8 Dec. 2004 – KSU- Riyadh. (in Arabic).
- **Alhamid, A. A.**, "Water demand management using a conservative in-house potable water distribution system", Ninth International Water Technology Conference, Sharm El-Sheikh, Egypt, March 17-20, 2005.
- **Alhamid, A. A.**, **AlFayzi, S.** and **Hamadto, M.** "A Sustainable water resources management plan for Wadi Hanifa in Saudi Arabia", Second International Conference on Wadi Hydrology, University of Jordan, Amman, Jordan, 1-4 July, 2003.

BOOKS

- المهيدب، عبدالله و **الحامد، عبدالعزيز**، "شواهد هندسية من النهضة السعودية خلال عقدين من الزمان 1402هـ - 1422هـ"، مطابع جامعة الملك سعود، الرياض، 1424هـ.
- الطرباق، العمود، البسام، **الحامد**، الطخيس و عبدالرحمن، إنجازات خادم الحرمين في مجالات المياه المختلفة، الرياض، 1425هـ.
- Knight, D. W., Yuen, K. and **Alhamid, A. A.** "Boundary Shear Stress Distributions in Open Channel Flow", CH. 4 on Mixing and Transport in the Environment (Ed. Beven, K.J., Chatwin, P.C. and Milbank, J.H.), John Wiley & Sons, 1994.

- **Alhamid, A. A.** and Reid, I., "Sediments and vulnerability of water resources", Chapter 6 on Hydrology of Wadi systems, UNESCO- Technical documents in hydrology, Vol. 55, SC.2002/WS/33, Cairo, Egypt, 2000.

REGIONAL MEETINGS, WORKSHOPS AND TRAINING COURSES:

- Floodplain Mapping, Design and Modeling seminar, Master training, HEC- RAS, Haestad Methods, Inc., Chicago, USA, 7-10 August, 2001.
- Renewable Natural Resources in The Kingdom, Riyadh, Saudi Arabia, 30 Nov., 1997.
- Wadi Hydrology Workshop, Beirut, Lebanon, 28-29 Sep., 1999.
- Water Conservation Workshop, Riyadh, Saudi Arabia, 23 March, 1998.
- Regional work group meeting on Wadi Hydrology, Tunis, Tounisia, 4-7 Feb., 1999.

FUNDED PROJECTS

- Principal Investigator for project No. 422/32, Research Center at KSU for 2 years (Total Budget SR 23000).
- Co- Investigator for , Deanship of Scientific Research at KSU for 2 years (Total Budget).

REVIEW OF ARTICLES SUBMITTED TO:

- Journal of King Saud University, Engineering Science, Riyadh, Saudi Arabia.
- Dirasat Journal, Engineering Sciences, Jordan.
- Technical proposals, progress and final reports of sponsored research project for King Abdulaziz City for Science and Technology (KACST), Riyadh.
- Fourth Saudi Engineering Conference, Jeddah, 1995.
- Fifth Saudi Engineering Conference, Umm Al Qura, Makkah. 1999.
- Symposium of Innovation and Distinction on 100 Years, Ministry of Public Works and Housing, Riyadh, 1999.
- 7th Gulf Water Conference, Kuwait, Nov., 2005.