

## Curriculum Vitae



**Nadhir Al-Ansari**

**Surname** : Al-Ansari  
**First name** : Nadhir  
**Gender** : Male  
**Nationality** : Swedish  
**Present Title** : Professor  
**Address** : Department of Civil, Environmental and Natural Resources  
Engineering Division Geotechnical Engineering, Lulea  
University of Technology, 971 87 Lulea, Sweden

### EDUCATION

#### Secondary:

1959-1964 Baghdad College –American School- (Secondary Baccalaureate).

#### University

1973-1976 Ph.D. Dundee University  
1971-1973 M.Sc Baghdad University  
1964-1968 B.Sc. Honours Baghdad University

### MEMBERSHIP OF SOCIETIES

- Fellow and Regional Representative (in the Middle East), the Chartered Institution of Water and Environment Management (CIWEM).
- International Association of Hydrological Sciences.
- International Commission for Continental Erosion.
- Iraqi Scientific Society of Water Resources.
- Geological Society of Iraq.

## Editorial Board of International Journals

- J. Advanced Science and Engineering Research.
- J. Earth Sciences and Geotechnical Engineering.
- J. Purity, Utility Reaction and Environment.
- J. Geosciences Research.
- Central European Journal of Engineering.
- 'Advisory Board Member' for J. Geosciences Research.

## RECOGNITION AND MERIT AWARDS

### A. Patent:

- Physical methods for the separation of iron oxides (Patent No. 2544 dated 11.10.1994).

### B. Awards:

- Mesopotamia prize for water resources, 1994.
- Iraqi prize for scientific papers in Agriculture and Water Resources sector, 1994.
- Ministry of Higher Education and Scientific Research prize for best postgraduate supervisor, 1993/1994.
- Ministry of Water and Irrigation (Jordan) prize at the International Water Day for scientific contribution and local community services, 1998.
- Jordan Environmental Society prize for scientific contribution and local community services, 1998.
- Jordanian Astronomical Society for contribution for contribution to society, 2001.
- British Council 70th Anniversary, top 5 scientists in Cultural Relations Award, 5th November, 2004.

### C. Recognition:

- Listed in Who's Who in the World,p.41, 2014, A Who's Who in America Publication.

## EMPLOYMENT RECORD

20/12/2007 - now	Professor at Lulea Technical University, Sweden, and Professor at The Arab Open Academy in Denmark, Department of Environmental management since August, 2008- now.
03/09/1995 – 25/05/2007	Professor at Al-al Bayt University, Jordan.
01/09/2001 – 01/09/2006	Dean of the Institute of Earth and Environmental Sciences – IEES.

03/09/1995 – 24/09/2006	Director of the “Strategic Environment and water Resources Research Unit”, Al-al Bayt University, Jordan.
2001-2003	Chairman of the Council of the Institute of Astronomy and Space Sciences, Al-al Bayt University, Jordan.
01/07-01/09/2003	Acting Dean for Scientific Research and Postgraduate Studies, Al-al Bayt University, Jordan.
05/ 09/ 1995	Expert at Water and Environmental Research and Studies Center, University of Jordan, Jordan.
06 -1988 - April 1995.	Professor at the Department of Geology, Baghdad, University.
01/05/1992 - 29/12/1993.	Chairman, Department of Geology, Baghdad University.
11/1980-1988	Assistant Professor at the Department of Geology, Baghdad University.
11/ 1976-1980.	Lecturer at the Department of Geology, Baghdad University,
0111/1968 - 07/1973.	Demonstrator at the Department of Geology, Baghdad University.

## UNIVERSITY TEACHING EXPERIENCE

### A. Undergraduate level:

- Groundwater hydrology.
- Hydrology.
- Hydrochemistry.
- Meteorology.
- General Geology.
- Field Geology.
- Engineering Geology.
- Environmental Geology.
- Dam Engineering.

### B. Postgraduate level:

- Advanced hydrogeology.
- Advanced hydrology.
- Sedimentation Engineering.
- Water quality.
- Water pollution.

- Hydrology of Rivers.
- Reservoirs.
- Advanced Hydrochemistry.
- Environmental Science.
- Environmental Laws and Policies.
- Interaction of Environmental Elements.
- Geomorphology.
- Sedimentation and soil science.
- Groundwater.
- Sedimentation Engineering.
- How to write scientific paper.

## COMPUTER COMMAND

- Major part of my Ph.D. thesis is based on computer programming.
- Attended training course for one month on new computer techniques in 1997.
- Attended training course for one month on network computer techniques in 1997.
- Attended training course for one week on Internet computer techniques in 1997.
- Designed computer program on groundwater movement and solute transport using finite element technique with users manual.
- BLACKBOARD learning system ML.
- HORIZON WIMBA (live class room).

## CONFERENCES AND SEMINARS ATTENDED

- Most of the conferences organized by the International Association of Hydrological Sciences (IAHS) since 1976.
- Lectured in various workshops and seminars in Jordan e.g. American AMIDEAST and German Club of Von Humboldt Fellows.
- All the Iraqi Geological conferences, presenting scientific papers (1976-1995).
- All Iraqi Hydrological conferences, presenting scientific papers (1981-1995).
- First European meeting of the International Association of Sedimentology (1980), presenting scientific paper.
- European Geophysical Union Meeting-Edinburgh -U.K.(1992), presenting a keynote paper.
- Artificial recharge of groundwater, Dortmund, Germany (1982).

- Chaired several sessions at the conferences organized by the International Association of Hydrological Sciences (IAHS).
- Organized and chaired all the Water Resources conferences in Iraq (1981-1995).
- Organized and chaired several sessions of the Iraqi Geological Conferences (1976-1995).
- Organized and chaired several sessions of the conferences organized by the Higher Scientific Societies Congress in Iraq.
- Lectured at all the seminars and training courses on hydrology and hydrogeology organized by the Geological Society of Iraq, Scientific Water Resources Society of Iraq and the University of Baghdad-College of Science (1976-1995).
- Lectured at the seminar organized by the Islamic Network on Water Resources Development and Management.
- Presenting scientific papers at two Jordanian Geological Conferences.
- Lectured at more than five seminars organized by Jordan Environmental Society (since 1995).
- Lectured at some British Universities (e.g. University of Wales-Cardiff 1996; Coventry University, 1999; Liverpool John Mores University, 2000).
- All conferences concerning Hydrology, Geology and Environmental sciences held in Jordan for the period 1995-2007.
- International Conference & Exhibition on Mass Mining, MassMin, Lulea, Sweden 9-11 June 2008.
- International Water Week, 17-23 Aug., 2009 Stockholm, Sweden.
- International conference on water and climate change in the MENA region, 28-29 April, 2011, Germany.
- International Water Week, 1-5 May, 2011, Germany.
- Specialized workshop on Landfills of Hazardous Waste and its Implications on Health and Environment, Lulea University of Technology, 15-17 November, 2011.
- 6th International Conference on Scour and Erosion, 28-31 August, 2012, Paris, France.
- 1st International Conference on Petroleum and Mineral Resources, in Koya, Kurdistan, Iraq, 3rd - 6th December 2012.
- Ost-westlicher Diwan e.V. Köln, Germany, Die Auswirkungen von Uranmunition auf Gesundheit und Umwelt im Irak, 19 October 2013
- Second Engineering conference, Mosul University, 19-21 November, 2013.
- First International Symposium on Urban Development of Koya as a case study, 16-18 December, 2013, Koya University, Iraq.

## OTHER UNIVERSITY ACTIVITIES

1976 - Now	Supervision of postgraduate students (more than 50 Ph.D. and MSc).
1976 - 1995	Member of the scientific committee at the department of geology, Baghdad University.
1976 - 1995	Member of the postgraduate committee at the department of geology, Baghdad University.
1988 - 1995	Member at the committee of Staff development, Ministry of Higher Education and Scientific Research, Baghdad.
1993 - 1995	Member at the committee for the development of the geological curricula at the Iraqi universities.
1990 - 1995	Member of the scientific committee of the High Societies Congress, Iraq.
1995 - 2006	Member of the Dean's council at Al al-Bayt University, Jordan.
1996	Developing scientific cooperation program (coordinator) in Water Resources between Al al-Bayt University and Exeter University, UK.
1998	Developing scientific cooperation program (coordinator) in Water Resources between Al al-Bayt University and Coventry University, UK.
1998-2006	Member of the central postgraduate committee at Al al-Bayt University.
1998-2006	Member of the central scientific research committee at Al al-Bayt University.
1998	Developing scientific cooperation program (coordinator) in Water Resources between Al al-Bayt University and Liverpool John Mores University, UK.
2000 – 2006	Member of the delegate of Al al-Bayt University for developing new regulations and laws for Jordanian universities.
2001 - 2006	Member of Al al-Bayt University Council.
2001 - 2006	Member of staff Appointment and Promotion committee at Al al-Bayt University.

15/17-11 2011	Member, organization committee for the International workshop on Landfills of hazardous waste and its implications on health and Environment, Sweden.
05/2011	Member of the editorial board of the journal of Earth Sciences and Geotechnical Engineering.
06/2011	Member of the editorial board of the journal of Journal of Advanced Science and Engineering Research.
09/2011	Member of the editorial board of the journal Geosciences Research.
07/2011	Member of the editorial board of Central European Journal of Engineering.
01/2012	Coordinator and lecturer at the course on MODERN TEACHING AND RESEARCH TECHNIQUES, Special training course for University staff members development at Lulea University – LTU,16 January-10 February, 2012.
02/2013	'Advisory Board Member' for J. Geosciences Research
12/2013	International advisory committee for 2nd International Conference on Petroleum and Mineral Resources, 21 – 23 October, 2014, Koya, Kurdistan, Iraq

## COMMUNITY SERVICES

### A. Major Scientific Consultations:

- Geological, geophysical and hydrological investigation of Mosul dam area (1984).
- Geological, geophysical and hydrological investigation of Mosul dam Reservoir (1985).
- Bathymetry of Hemrin Reservoir (1986).
- Hydrological investigation of Hemrin Reservoir (1987).
- Hydrological investigation to establish the best navigable route at River Tigris from Baghdad to Sammara and Tharthar canal (1990).
- Hydrological analysis for preventing city Baghdad form floods (1991).
- Establishing position of intake pipes for AL hakam Factory (1991).
- Hydrological investigation of Euphrates River at Bridge site (1991).
- Hydrological and geological investigation of Rawa bridge site (1992).
- De-watering of Hindiya cement factory site (1992).

- Stability of River Euphrates at Anbar power plant (1992).
- Geotechnical, hydrological and geophysical investigation for Baiji thermal power station sites (1992).
- Geotechnical, hydrological and geophysical investigation for Baiji thermal power station sites (1992).
- Geological, geophysical and hydrological investigation of pumping storage scheme for generation of electricity at Makhul Mountain (1992).
- Geotechnical, hydrological and geophysical investigation for Baiji thermal power station sites (1992).
- Geological, geophysical and hydrological investigation of pumping storage scheme for generation of electricity at Makhul Mountain (1992).
- Hydrological investigation of River Tigris to find the best navigable route from Baghdad to Umarah(1992).
- Evaluation of the geometry of River Tigris at Baghdad for navigation purposes (1992).
- Possibilities of groundwater utilization from Um Radhuma aquifer (western desert) (1993).
- Utilization of Groundwater on high way No.1 (Hit-Haditha to Km 251) (1993).
- Utilization of groundwater on Highway No.1 sectors 2 and 3 (Km 251 to Iraqi-Jordanian border) (1993).
- Hydrological investigation of Shammal Thermal Power Plant site (1994).
- Geological and Hydrological of the secondary Shammal Power plant site (1994).
- Various short-term consultancy activities for Electrical projects company.
- Physical separation of iron deposits (1994).
- Installation of piezometers at Hemrin dam site (1994).
- Slope stability analysis of Wadi Al-sir Wastewater treatment plant, Jordan (1995).
- Hydrogeology of Hama spring, Jordan (1996).
- Sediment transport in selected valleys in Mafraq area (sponsored by AL-al Bayt University).
- Sediment transport in Badia desert using Cs isotope 137 (joint research project with Exeter University, U.K.).(Sponsored by British Council- 1997).
- Utilization of Water resources in low rain areas east Mafraq. (Sponsored by Ministry of Water and Irrigation, Jordan- 1996).
- Erosion and Sedimentation problems in different environmental conditions, their causes and control measures. (Sponsored by UNESCO –1997).
- Optimization of meteorological stations in Badia area. (Sponsored by Higher Council for Science and Technology – Jordan 1998).



- Sediment transport in Badia desert - Jordan (sponsored by Higher Council for Science and Technology – Jordan -1998).
- Water quality monitoring in Mafraq City and Al al-Bayt University. (Sponsored by AL-al Bayt University).
- Dust monitoring at Mafraq Area. (Sponsored by AL al-Bayt University).
- Existing Water Harvesting Schemes at the Badia desert. (Sponsored by Higher Council for Science and Technology – Jordan –1998).
- Natural Recharge of Ground water. (Sponsored by Higher Council for Science and Technology – Jordan –1998).
- Water quality in the Badia region using remote sensing techniques.(joint project with Coventry University) ( sponsored by British Council – 1999).
- Waste water treatment and re-use. .(joint project with Liverpool John Mores University) ( sponsored by British Council-1999).
- Multidisciplinary study for the development of water resources in the Badia region. (Sponsored by World Bank –1998).
- Sustainable development of water resources and the environment in the Badia region. (Sponsored by World Bank –1999).
- Water resources management in Sarhan Basin, Jordan. (Sponsored by G-77 UNDP –2000).
- Water resources management in the Badia region as an example of arid and semi-arid regions. (Sponsored by G-77 UNDP –2001).
- Ancient Water Harvesting Schemes at Badia Region. (Sponsored by UNESCO –2000).
- Waste water treatment, management and re-use in Mediterranean countries. (Sponsored by EU –2002).
- Upgrading postgraduate labs in Earth and Environmental Sciences (Sponsored by Ministry of Planning, Jordan- 2002).
- Producing Efficient and High Quality Graduates for the Water Industry through Better Understanding and Implementation of Information Technology. (Sponsored by World Bank –2000).
- Development of Multidisciplinary Postgraduate Research Program In Water Industry Oriented for Arid and Semi-Arid Regions (Sponsored by UNESCO – 2006).
- Drainage rainfall network for the new football area and surroundings (Sponsored by Boden Kommun, Sweden), 2007.
- Central Labs for Scientific, Engineering, Medical Industry, Medicine and Agriculture, Submitted to Iraqi Ministry of Higher Education, Feb. 2012.
- Suggested Landfill Sites for Hazardous Waste in Iraq, Submitted to Iraqi Ministry of Environment, Dec. 2012.

## **B. Training courses, lectures, seminars and articles of general interest:**

- Five lectures at different seminars organized by Jordanian Environment Society (since 1996).
- Lectured at all the seminars organized by Al al-Bayt University on water resources, hydrology and hydrogeology of desertic areas (1995-2006).
- Lectured on Water Resources in the Arab World at the University of Wales-Cardiff (U.K.), (April 1996).
- Invited to give lectures on Hydrology and Hydrogeology of the Arab Countries in January 1999 at the University of Coventry (U.K.).
- Organized and lectured at all the seminars and training courses of hydrology and hydrogeology at the Geological Society of Iraq, Iraqi Scientific Society for Water Resources and the University of Baghdad - College of Science (1976-1995).
- Lectured at the seminar organized by the Islamic Network on Water Resources Development and Management (1996).
- Lectured in most of the seminars organized by the Badia Development program (since 1996).
- Lectured at several Jordanian Universities (e.g. Science and Technology - Irbid - Mutaa University) since 1998.
- Training course on Groundwater Modelling in Shaidiah Area (one month), Phosphate Mining Company, 1999.
- Waste water treatment and re-use, 16 training courses (4 regional and 12 national) supported by EU (2004-2006).
- Training course for Iraqi Universities' staff at Lulea University of Technology, 23<sup>rd</sup> August- 22<sup>nd</sup> September, 2011, on university staff development in research and teaching sponsored by UNESCO and Iraqi Ministry of Higher Education and Scientific Research.
- Training course for Iraqi Universities' staff at Lulea University of Technology, 16 January-10 February, 2012, on university staff development in research and teaching sponsored by UNESCO and Iraqi Ministry of Higher Education and Scientific Research.
- Identification of most appropriate activities to be conducted on water and sanitation by Agence Francaise de Development "AFD", December 2013.
- Training course on scientific writing for Koya University staff at Koya, Iraq, 1 - 7 February, 2014, sponsored by UNESCO and Koya University.

## POSITION OF RESPONSIBILITY AND ACTIVITIES

1968-1973	Member of the Publication Committee and Scientific Committee of the Iraqi Geological Society.
1974-1976	Rapporteur of the Department of Geology, Baghdad University.
1976-1980	Chairman of Scientific Congress Committee of the Arab Geological Association.
1977-1995	Member of Various committees in the Department of Geology Chairman of Various Sessions at International Conferences. Member of the Higher Scientific Society's Congress in Iraq. Supervising number of Ph.D. and M.Sc. Students. Undertaking several consulting strategic projects.
1977	Member of the organizing committee of the second Iraqi congress for of Geological Education.
28-31/12/1978	Secretary General of the 5th Iraqi Geological Congress.
28-31/12/1980	Secretary General of the 6th Iraqi Geological Congress.
1980-1982	Secretary General of the Geological Society of Iraqi.
1981	Chairman of 1st Iraq Hydrological Conference, Baghdad.
1981-1988	President of Geological Society of Iraq.
1981-1988	Member of the Editorial Board of the Journal of Geological Society of Iraq, since 1980 and them its Chief Editor.
1981-1992	Secretary of Editorial Board of the Journal of Water Resources.
1983-1988	Member of Iraqi National Committee for the International Geological Program.
1983 – 1995	Member of Iraqi National Committee for the International Hydrological Program.
1984	Chairman of 2nd Iraqi Hydrological Conference, Baghdad.
1984 – 1995	Member of Iraqi National Committee for Geodesy and Geophysics.
1984 – 1995	Member of Iraqi National Committee for Biosphere Program.
1985	Vice Chairman of the 7th Iraqi Geological Congress.
1985 – 1995	Member of Iraqi National Committee for Man and the Biosphere Program.

1986	Chairman of the International Symposium Erosion and Sedimentation in Arab Countries, Baghdad.
1987-1988	Consultant for Rafidian Company for Dam Construction.
1987-1991	Vice President of the International Commission for Continental Erosion ICCE.
1987 - 1995	National Correspondent of International Commission for Continental Erosion in Iraq.
1989	Chairman of 3rd Iraqi Hydrological Conference, Baghdad.
1992 - 1993	Chairman, Department of Geology, Baghdad University.
1991- 1995	President of the Iraqi Scientific Society for Water Resources.
3/9/1995 – 24/9/2006	Director of the "Strategic Environment and water Resources Research Unit", Al-al Bayt University, Jordan.
04/1996	Lectured on Water as a strategic resource in Arab region in the University of Wales, Cardiff, U.K..
1997-2007	Member of the National Jordanian Committee for the International Hydrological program.
1997-2007	Member, editorial board of Al-Manarah scientific journal of Al al-Bayt University.
2000-2007	Member of the Jordanian High Committee for the Development of Higher Education Development Project.
1/9/2001 – 1/9/2006	Dean of the Institute of Earth and Environmental Sciences - IEES.
12/2006 – now	Professor, Lulea University of Technology, Sweden.

## PUBLICATIONS

1. *Al-Rawi, Yehya and Al-Ansari, N. A., 1971*, Effect of irrigation canals on the water table "A case study", J. Geol. Soc. Iraq, V4, pp73-80.
2. *Al-Ansari, N. A., and McManus, J., 1975*, Calculation of sediment discharge in River Earn, Scotland, 9th inter. Cong. Sedimentology, Nice-France.,pp113-120.
3. *Al-Ansari, N. A., Al-Jabbari, M.H. and McManus, J., 1977*, The effect of farming upon solids transport in the River Almond, Scotland, in Erosion and solid matter transport (Symposium), IAHS-AISH Publ. No. 122, Paris, France, pp 118-125.
4. *Al-Ansari, N. A., Al-Jabbari, M. H. and McManus, J., 1978*, Sediment discharge in the River Almond, Scotland, Iraqi J. Sc., V. 19, No. 2, pp 145-165.
5. *Hassan, H.A., and Al-Ansari, N. A., 1978*, Surface runoff and ground water evaluation for the Khazir River catchment (Iraq), 1st Arab Water Resources Cong., Syria.

6. Hassan, H.A., Al-Ansari, N. A., and Ali, S. H., 1979, Application of Modified Thornthwaites formula to Iraqi conditions, J. Geol. Soc. Iraq, V. 12, No. 1, pp 21-26.
7. Al-Ansari, N. A., Ali, S. H., and Taqa, A., 1979, Sediment discharge in the River Tigris at Baghdad (Iraq), International Congress in Hydrological Science, Canberra, Australia, IAHS Pub.No.128, pp 399-407.
8. Al-Ansari, N. A., and McManus, J., 1979, fluvial sediments entering Tay Estuary: sediment discharge from the river Earn, Scotland, Scott, J. Geol., V. 15, No.3.
9. Al-Ansari, N. A., Hassan, H. A., and Ali, S., 1979, Water balance of the lower part of Diyala catchment between Derbendikhan and Hemrin Dams (Iraq) Iraqi J. Sci., V. 20, No. 2.
10. Al-Ansari, N. A., Al-Jabbari, M. H., McManus, J., McDonald, D. and S., H., Ali, 1980, The motion of particles in open channels, J. Soc. Iraq, V.13, No.1,pp45-52.
11. Al-Ansari, N.A., and McManus, J., 1980, Re-investigation of the bathymetry of Loch Earn, Scotland, Scott. Geo. Mag., 97, pp105-113.
12. Al-Ansari, N.A.,McManus,J.,Al-Jabbari,M. and McDonald,D., 1980, Analysis of shear stresses in a gravelly river, J. Geol. Soc. Iraq, V.13, No.1, pp25-44.
13. Al-Ansari, N. A., Al-Jabbari, M. H. McManus, J. and McDonald, D., 1980, Fortran IV Program for sediment motion in open channels, 26 Inter.Geological Congress, France, No. 14, pp9-20.
14. Al-Ansari, N. A., Al-Shami, F., Hassan, H. A., and Ali, S., 1980, Water surplus and hydrographic analysis of Adhaim River catchment (Iraq), J.Geol. Soc. Iraq. V. 13, No. 1, pp53-59.
15. Al-Jabbari,M. H., Al-Ansari, N. A., and McManus, J., 1980, The effect of farming and housing upon sediment transport in a gravelly river. Influence of man of the hydrological regime (Intern. Symposium), Helsinki IHS Pub. No. 130, pp257-263.
16. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1980, The contribution of chemicals in rainfall to the dissolved load of the Tay drainage basin, Scotland, Influence of man on the hydrological regime (Intern. Symposium), Helsinki, IAHS Pub. N. 130, pp157-162.
17. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1980, Sediment and solute discharge into the Tay Estuary from the river system, Proc. Roy. Soc. Edinburgh, V, 78b, pp S15 - S32.
18. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1980, Relationship between dissolved and solids transport in rivers, 1st European meeting of the Intern. Assoc. of Sedimentology, W. Germany, pp 66-76.
19. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1981, Bank sediment effect on the nature of sediment motion in the River Lyon, Scotland, J. Geol. Soc. Iraq, V. 14, No. 1, pp 84-87.
20. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1981, Textural and compositional variations in the fluvial sediments of the Tay Basin, J. Water Res., V.1, No.1, pp 81-110.
21. Al-Jabbari, M. H., and Al-Ansari, N. A., 1981, The effect of channel geometry on the estimation of sediments load in the River Tigris within Baghdad, 2nd Arab Water Resources Cong., Morocco, pp 1-12.
22. Al- Ansari, N. A., and Al-Jabbari, M. H., 1981, Sediment transport in open channels: a comparison of field and experimental data, 2nd Arab Water Resources Conf., Morocco, pp 171-181.
23. Al-Ansari, N.A., Al-Jabbari, M. H., McDonald, and McManus, J., 1981, A FORTRAN IV program for textural properties (Roundness, Sphericity and Shape) evaluation of pebble sized clastic sediments, Computer and Geosciences, V.67, No. 3, pp 311-316.
24. Al-Ansari, N. A., Assaid, H. I. and Salim, V. N., 1981, Water resources in Iraq, J. Geol. Soc., V15, pp35-42.
25. Al-Ansari, N. A., Al-Jabbari, M. H., McManus, J., McDonald, D., 1981, A Fortran IV program for the evaluation of Hydraulic geometry parameters of river channels, Iraqi J. Sci., V. 22, No.4, pp 613-622.

26. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1982, Chemical quality and ionic balance of the River Tay, Scotland, J. Water Res., V.1, No.2, pp 63-91.
27. Al- Ansari, N.A., Al-Jabbari, Al-Sinawi, G., 1982, Modification of simple sedimentary statistics for recognition of fluvial environment, J. Water Res., V.1, No.2, pp43-55.
28. Malaz, M., Ali, S.H., McManus, J., and Al-Ansari, N.A., 1982. , The recognition and behavior of grain sub-populations in the sediments from the Adhaim basin, Iraq, J. Geol., Soc. Iraq, V. 15, No. 1, pp40-46.
29. Al- Ansari, N.A., Al-Jabbari, M.H., and Al-Sinawi, G., 1983, Calculation of sediment discharges for the period 1975-1981 in River Adhaim (Iraq), 2nd Inter. Conf. on River sedimentation, China, pp1105-1111.
30. Al- Ansari, N.A., Al-Jabbari, M.H., and Madhat, A. . 1983. Sediment discharge in Hemrin Dam Reservoir, 2nd Int. Cong. on river sedimentation, China, pp1098-1104.
31. Al-Jabbari, M. H., Al-Ansari, N. A., And McManus, J., 1983, The bathymetry of sedimentology of Loch Tay. Scotland, J. Water Res., V.2, No. 22, pp70-89.
32. Al-Ansari, N. A., Al-Jabbari, M. H., and McManus, J., 1983, Sediment discharge in River Adhaim (Iraq), J. Water Res., V. 2, No. 2, pp 112-121.
33. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1983, Variation and solute concentration within the River Almond and its effect on the estimated dissolved load, Dissolved load of rivers and surface water quality/quantity relationship, Symp. Hamburg, IAHS Pub., No. 141, pp 21-29.
34. Barazanji, A. and Al-Ansari, N.A., 1984, Geological investigation and geophysical analysis of Fatha area, J. Water Res., V. 3, No. 2, pp 141-181.
35. Al-Ansari, N.A., and Toma, A., 1984, Bed characteristics of the River Tigris within Baghdad, J., Water Res., V. 3, No. 1, pp 1-23.
36. Al-Ansari, N. A., Al-Jabbari, M. H., Salem, B., 1985 , Annual .Sediment budget in River Euphrates at Hit, J. Geol. Soc. Iraq, V. 18, No.1, pp 277-286.
37. Al-Ansari, N. A., and Toma, A., 1985, Suspended Sediment waves in the River Tigris at Sari station for the year 1982, Inter. Symp. on Erosion, Debris flow and Disaster Prevention Keynote, Japan, pp 157-162.
38. Al-Ansari, N. A., and Ali, J. L., 1986, Suspended load and solute discharge in River Tigris within Baghdad, J. Water Res., V. 5, pp 35-50.
39. Al-Jabbari, M. H., and Al-Ansari, N. A., 1986, Dissolved load and ionic balance in the upper reaches of the Euphrates River, J. Water Res., V. 5, pp 98-116.
40. Salman, M.A., Al-Ansari, N.A., and Al-Falluji, M.M., 1986, Bacterial density and related hydrological parameters of Tigris water within Baghdad J. Water Res., V. 5, pp 622-640.
41. Salman, M.A., Al-Ansari, N.A., and Al-Falluji, M.M., 1986, Comparative study of bacterial density and suspended concentration of Tigris - Diyala water, J. Water Res., V. 5, pp 641-653.
42. Al-Ansari, N.A., and Gayara, A.D., 1986, Geology of Jabal Butmah and Tairah: an outlook on the Oligocene-Miocene succession, Northern Iraq, J. Water Res., V.5, No.2, pp 102-115.
43. Al-Ansari, N.A., and Al-Sinawi, G., 1986, Hydrology of Arabian Gulf, 1st Conf. on Arabian Gulf, Baghdad, pp 97-109.
44. Al-Ansari, N.A., Al-Jabbari, M.H., and Al-Sinawi, G., 1986., Suspended sediment in the upper parts of River Euphrates, J. Water Res., V. 5, No. 1, pp 67-83.
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44. **Hadad, W.M. 2006**, Improving performance of Water Authority in Mafrag using Information Technology, M.Sc. Thesis, Al al-Bayt University, joint supervision with the faculty of Economics and Business Administration (in Arabic).
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## ON GOING PhD STUDENTS RESEARCH PROJECTS

1. **Mohammed, E.M.**, Application of the Geographic Information System to estimate sediment load in Mosul dam reservoir, Iraq.
2. **Ali, Ammar**, Prediction of islands formation in Tigris River at Baghdad City during drought seasons.
3. **Jia, Qi**, Dust generation and spreading around mining area and proposal for dust emission factors, Sweden.
4. **Huang Yi**, Modelling of dust around mining area, Sweden.

5. **Essa, Elias Essa**, Siltation and sedimentation problem in Mosul reservoir dam, Iraq.
6. **Al-Tae. Entidhar**, Development of foundation methods for building in Iraq.
7. **Zakaria, S.**, Rainwater harvesting (RWH) in Mosul, Iraq.
8. **Al-Taie, Laith**, Diffusion characteristics through lime treated/untreated clay liner in expansive soil containing soluble salts.
9. **Chabuk, Ali**, Landfill site selection criteria at Babylon city.

## REFERENCES

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