

Curriculum Vitae



Nadhir Al-Ansari

Surname : Al-Ansari
First name : Nadhir Abbas
Gender : Male
Present Title : Professor
Specialization : Water Resources and Environmental Engineering
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OVERVIEW OF RESEARCH THEMES AND EXPERTISE

A. Teaching and supervision:

I taught several undergraduate and postgraduates' courses in departments of Civil Engineering and geology at several universities in Europe and the Middle East. I supervised more than 70 MSc and PhD students at several Universities all over the world (Sweden, UK, Australia, Denmark, Jordan, and Iraq).

B. Research

My principal research interests are in water resources and environment. I have published more than 900 papers in scientific journals and International conferences as well as 22 books in these fields. The main themes addressed are:

- a. **Water Resources Management:** Middle East and North African countries (MENA region) are arid or semi-arid as the average annual rainfall does not exceed 166 mm. For this reason, the scarcity of water resources in the MENA region, and particularly in the Middle East, represents an extremely important factor in the stability of the region and an integral element in its economic development and prosperity. Prudent water management planning was discussed and solutions to overcome these problems were given at Iraq and Jordan.
- b. **Sediment Budget Studies in Rivers:** One of the greatest challenges facing engineers and geologists is the attempt to establish a realistic fully documented budget for rivers and reservoirs systems. This requires knowledge of the river inputs and outputs, the migration paths, and the re-entrainment - recirculation mechanisms within the rivers and reservoirs. Bed, suspended and total loads in major rivers in the Middle East and UK were calculated using direct and indirect methods.
- c. **Mosul Dam:** I was one of the first researchers to highlight the seepage problem of Mosul Dam in 1986. I continued to visit the site and work on the problem. My colleagues and I published several papers about this problem and finally in November 2022 we published a book that describes the problem, consequences of the failure of the dam and possible solutions.
- d. **Siltation in Reservoirs:** Construction of dams across rivers for the development and management of water resources causes changes to the sediment transport regime that will lead to sediment accumulation in their reservoirs. Reservoir sedimentation is the

main problem that directly affects the performance of dams due to the reduction in their storage capacity. The distribution of the sediment deposited in reservoirs mainly depends on several factors, but the most important are the grain size composition of the sediment inflow, the amount of sediment coming, the reservoir geometry and its age, the locations of the bottom outlets and the reservoir operation mode the trap efficiency of the reservoir. The deposition of sediment in a reservoir causes changes in its stage-area curve and stage-storage capacity curve. These curves are very important for planners, designers and operators of dams and are regarded as one of the most important physical characteristics of dams and their reservoirs. Bathymetric surveys were conducted on major reservoirs and new area storage capacity curves were established. Modeling techniques were also used and compared with actual surveys for future prediction of siltation rates. In addition, trap efficiency was calculated for some of these reservoirs.

- e. **Sediment Characteristics:** Sediments “clastic”, their textures, and responses to environmental processes, with long-term objective rates of erosion and deposition in rivers and reservoirs were conducted on several rivers in UK and the Middle East.
- f. **Climate Change and Water Resources:** Water resources are expected to decline in the future in the Middle East region. This fact will increase the friction of the countries involved. Several research were conducted to find out the future prospects of rainfall using various modeling techniques. The results were used to find out the possibilities of reducing the water resources` shortages in the region. In this context, water harvesting models were used to see the validity of using this technique in the Middle East.
- g. **Groundwater studies:** Groundwater represents the most important resource in the absence of surface water, which is the case in the Middle East. Groundwater studies have been conducted on several regions and aquifers. Water quality was evaluated and modeling the risk of Groundwater contamination was carried out using DRASTIC and Modified DRASTIC models under GIS environment.
- h. **Landfill Site selection and design:** Some of the solid waste cannot be reutilized and parts of it are considered hazardous to natural resources and the environment (industrial waste, in particular). Population growth and improvements in living standards lead to significant increases in solid waste production, making solid waste management one of the major issues facing the world today particularly in developing countries. The negative impacts` effects of poor solid waste management are potentially most dangerous for those living in third world countries, which are currently home to 80 % of the world's population. Improper solid waste management causes air, soil and water pollution and is often the result of a lack of financial resources. In addition, radioactive waste is an important part of hazardous rest products. The source of radioactive waste includes nuclear power plants, industry, hospitals, research organizations and military nuclear tests and weapons. Site selection criteria and design of landfills were suggested for some areas in the Middle East (particularly in Iraq, which suffers from depleted uranium waste).
- i. **Wastewater Treatment and reuse:** One of the suggested solutions to overcome the water shortage problems is the reuse of treated wastewater. Several studies were conducted to evaluate the efficiency of some wastewater treatment plants using field data and modeling techniques.

C. International Relations:

Number of projects were directed and executed by me. These projects were supported by several international organizations, e.g., World Bank, G-77, UNDP, UNESCO, UNEP, EU and British Council.

D. Other academic activities:

- a. Within university: I acted as the head of department, Director of research unit and dean within various universities. I participated in different committees for staff and curricula developments as well as other committees within universities (Scientific and postgraduate.... etc.). In addition, I acted as the director of several research projects and represented the university in development programs on the national level.
- b. Outside the university: I worked as Secretary General of the Geological Society of Iraq and later as the president of the society. I founded the Iraqi Water Resources Society and acted as chairperson of the society until 1995. I was a member of the Scientific Council of Iraq and many national committees. I acted as vice president of ICCE. I founded the Rafidain NGO for water resources development and protection.
- c. Member of the editorial board of several national and international journals.
- d. Organized and chaired several national and international symposium and conferences.
- e. Carried out many consultation projects.
- f. Acted as a postgraduate examiner for many PhD and Master Students in UK, Finland, Germany, Holland, Denmark, Jordan, Malaysia, Pakistan and Iraq.

E. Community service:

- a. I gave several scientific lectures to the public both in Europe and the Middle East as well as the media (radio, TV, and newspapers).
- b. Executed several training courses for the public and lately for university staff development under the supervision of UNESCO.
- c. Wrote several scientific reports about critical issues (e.g., dangerous situation of Mosul Dam).
- d. Member of several national and international scientific organizations.

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

Professor Dr. Nadhir A. AL-Ansari

THESES

- *Al-Ansari, N. A., 1976*, Sediments and Sediment Discharge in River Earn, Scotland, Ph. D. Thesis, Dundee University.
- *Al-Ansari, N. A., 1973*, Geology of the Southern Part of Jabel Makhul, M.Sc. Thesis, 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.
- The Arab Integrated Water Resources Management Network (AWARENET)
- The exclusive International Society of Executives & Professionals.
- Founder and president of Rafidain Organization for Water Resources Protection and Development (NGO).
- Member of International Association for Hydro-Environment Engineering and Research (IAHR).
- Member of International Society for Development and Sustainability (ISDS), Japan
- Member Sigma Xi, The Scientific Research Honor Society, USA

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.
- Altawasol Scientific award, Government of Iraq, 31st March, 2013.
 - Certificate of best paper award, 19th International Conference on Water Engineering, Istanbul, Turkey, 26-27 October 2017.
- Shownam Foundation Award for Scientific Arbitration Award, 27 August 2017.

- Best paper in UK conference 2019.

EMPLOYMENT RECORD

20/12/2007 - now	Professor at Department of Civil, Environmental and Natural Resources Engineering, Lulea University of Technology, 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,
011/1968 - 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.

B. Postgraduate level:

- Advanced hydrogeology.
- Advanced hydrology.
- Sediment transport.
- 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.
- Scientific writing of research papers

COMPUTER COMMAND

- Major part of my Ph.D. thesis is based on computer programming.
- Training course for one month on new computer techniques in 1997.
- Training course for one month on network computer techniques in 1997.
- 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 user's manual.
- BLACKBOARD learning system ML.
- HORIZON WIMBA (live classroom).

MAJOR 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.
- 8th edition of the international scientific Congress of GIS and geospace applications Geotunis 2014 April 02 to April 06, 2014, Tunis/ Hammamet.
- International Commission on Large Dams" ICOLD" conference, Hydropower 15, Stavanger, Norway 15-16 June 2015. (Presenting 2 papers)
- International Symposium on Energy Challenges and Mechanics, 8-10 July 2014 Aberdeen, UK. (Presenting paper and chairing a session).
- Organizing the International workshop on: Geological and engineering problems of the most dangerous dam in the world (Mosul Dam), 24-25 May 2016, Stockholm, Sweden.
- IWA specialist Groundwater conference, Belgrade 9-11 June 2016.
- International Symposium on Energy Challenges and Mechanics, 14-18 August 2016, Inverness UK.
- 8th International Conference on Scour and Erosion, 12-15 Sept. 2016 Oxford, UK
- Cost conference 2016, 22-23 September 2016, Ängelholm, Sweden.
- Hydrology day 2017 (Hydrologidagarna 2017), 16-17 March in Gothenburg, Sweden.
- Second annual Environmental International Conference, 15-16 April 2017, Karbalah, Iraq.
- International Conference on Environmental Impacts of the Oil and Gas Industries: Kurdistan Region of Iraq as a Case Study, 17-19 April 2017, Koya University, Koya, Kurdistan Region, Iraq.
- 10th World Congress on Water Resources and Environment, 5-9 July 2017, Athens, Greece.
- International Research conference on Sustainable Energy, Engineering, Materials and Environment, 26- 28 July, 2017, Northumbria University, Newcastle, UK.
- 7th International Symposium on Energy Challenges and Mechanics, 13-17 August 2017, Manchester M1 4PH, United Kingdom.
- Swedish Geotechnical engineering annual meeting, 28th September 2017, Sundsvall, Sweden.
- Keynote speaker at the 4th Iraqi Oil and Gas conference at the Petroleum Research and Development Center, Basrah, Iraq for the period 13-14 December 2017.
- 19th International Conference on Water Engineering, Istanbul, Turkey, 26-27 October 2017.
- Towards Sustainable Water Resources Management in Iraq, Workshop organized by Al Kindi Society of Engineers, Chartered Institution of Water and Environmental Management, London 31st June 2018.
- Desertification and Water Scarcity in Iraq: Effects and Solutions conference, 1st July 2018, London. Conference organized by The Association of Iraqi Academics, UK.
- Chairing a session and presenting a paper at sixth Annual International Forum on Water, 16-19 July 2018, Athens, Greece.
- Energy 8, member of scientific committee, chairing a session and presenting a paper, 6-9 August 2018, Aberdeen, UK.
- Water Scarcity in Iraq: Reality and Future Challenges, Conference organized by the Iraqi Forum for Intellectuals and Academics, 16-17 August 2018 Istanbul, Turkey.
- Vaasa Wild life Festival, 26-30 September, 2018 Vaasa, Finland.

- Workshop on The risks of water crisis in Iraq and its causes and possible solutions, Organized by Iraqi Ministry of Planning, 10-11 November, 2018, Baghdad, Iraq.
- First Conference of the Arabian Journal of Geosciences, 12-15 November, 2018, Hammamat, Tunisia.
- 2nd International Conference on Advanced Science and Engineering (ICOASE 2019) 2-4 April, 2019, Organized by Zakho and Duhok Polytechnic Universities, Duhok, Iraq.
- Key note speaker at the second International Conference of the college of Science at University of Al-Qadisiyah, Dewaniyah, Iraq, 24-25 April, 2019.
- World Forum on Climate Change, 19-21 June, 2019, Glasgow Caledonian University, Glasgow, UK.
- World Forum on Climate Change, 19-21 June, 2019 The World Forum on Climate Justice is organised by Elsevier in Glasgow at Glasgow Caledonian University. Chairing session Track D- Climate Justice Methodologies & Modelling A and presenting two papers.
- ICGEG 2019, 21st International Conference on Geosciences and Environmental Geology, 27-28 June, 2019, Organized by the World Academy of Science, Engineering and Technology, London held at Novotel London Wembley. Chairing Session III and presenting two papers.
- Development of Agricultural Sector in Iraq: problems and Solutions, 29th June, 2019, London, Organized by the Iraqi Association of Iraqi Academics, UK at the Polish Social and Cultural Association, London, UK. Presenting one paper.
- Member of the Scientific Committee of the 7th International Conference on Geology Resource Management and Sustainable Development (ICGRMSD2019), December 28-29, 2019, Beijing, China.
- Member of the advisory Committee and Keynote speaker at the First International Conference on Forecasting Water in the Future of Iraq: Using the past and Present, 13-15 September, Sulaimanyah University, Iraq.
- Site Selection Criteria of UTES Systems in Hot Climate, The XVII European Conference on Soil Mechanics and Geotechnical Engineering Reykjavik Iceland, 1 - 6 September 2019
- Chairing Session 4: “Climate change in Arid and semi-Arid regions” and keynote speaker at Vaasa Climate Change Conference and Networking Forum, 26 – 28 September, 2019, Vaasa, Finland
- Presenting 5 papers at 2nd Euro-Mediterranean Conference for Environmental Integraion – Springer, 10 – 13 October, 2019, Sousse, Tunisia
- Keynote speaker at the conference on “The role Remote Sensing techniques for monitoring water scarcity, on line conference organized by Remote Sensing Center, Mosul University, 24 August, 2020”.
- Keynote speaker at military writers symposium “Weaponizing Water” organized by Norwich University and Pentagon, USA, October 7-8, 2020.
- Water Scarcity in the Context of Climate Change. Middle East, Euphrates and Tigris Basin, WEBINAR | 23-24th February 2021, Istanbul, Turkey arranged by the Hydropolitics Academy of Turkey.
- Sixth International Congress on Information and Communication Technology : <https://icict.co.uk/>, 25 - 26 February 2021.
- Keynote speaker (Water Management in Iraq) at the 2nd International Conference for Civil Engineering Science, organized by University of Al-Qadisiyah, College of Engineering, Al-Qadisiyah, Iraq, 10-11 March, 2021. <https://icces21.qu.edu.iq/registration/keynote-speakers>

- Keynote speaker workshop on “Environmental and Health Priorities in Iraq to Restore the Environment and achieve Sustainable Development” organized by the Iraqi Environment and Health Society in UK, 6 June, 2021.
- Keynote speaker during the workshop on water scarcity in Iraq organized by the Iraqi Forum for Intellectuals and Academics, 18 June, 2021 on Hydroplitics of Tigris and Euphrates Basins.
- Keynote speaker during the workshop organized by the college of Engineering at Mosul University on climate change 20-24 June 2021 on Climate Change and its effect on water resources in Iraq.
- International Conference on the Geology of Iraq, presenting two papers and chairing a session, 25-28 October, 2021, Tikrit University, Tikrit, Iraq.
- Keynote speaker during Wasit University Engineering conference, 28 October, 2021, Wasit University, College of Engineering, Wasit, Iraq.
- Keynote speaker during thw workshop on Water Resources Management in Iraq, 1 November, 2021, College of Science, Al-Qadisiyah University, Al-Qadisiyah, Iraq
- APSU Conference for Dam Safety, presenting two papers, 13-14 November, 2021, Mosul Dam site, Mosul, Iraq.
- Chairing Session 3 “Waste: Analysis, Treatment & Recycling Analysis: Air & Water Quality Photocatalysis, Electrocatalysis & Biocatalysis”, XVth International Symposium on: Environment, Catalysis and Process Engineering, 23 - 25 November 2021 and presenting paper on the Influence of Well Screen (Depth and Length) on the Performance of Aquifer Thermal Energy Storage ATEs System
- Presenting a paper in Mediterranean Geosciences Union Annual Meeting (MedGU-21) Turkey 25-28 November, 2021. The paper title:“Geometric Correction Model of the New Generation of Near Equatorial Satellite Imagery by Using Improved SIFT”
- Keynote Speaker of the 2nd International Conference on Environment and Nature, College of Science at the University of Al-Qadisiyah, Iraq, 19-20 January 2022.
- Training course at College of Science at the University of Al-Qadisiyah, Iraq, 12-17 January 2022.
- Keynote speaker at the workshop on Climate change and its effect on water resources in Iraq, 24-26 January, 2022 at Baghdad University.
- Member of the technical committee for the 2022 8th International Conference on Environment and Renewable Energy, February 25-27, 2022 | School of Environmental Science and Technology (Hanoi University of Science and Technology), Vietnam
- Online lecture on Sediment transport for Anbar University, Iraq, 22 February 2022.
- Member of the international technical committee for the 2022 8th International Conference on Environment and Renewable Energy, February 25-27, 2022, School of Environmental Science and Technology, Hanoi University of Science and Technology, Vietnam.
- Chairing a session for the second international Baghdad water and climate change conference, 5-7 March 2022, Baghdad, Iraq.
- Lecture on the workshop about water resources, Baghdad University, 9-10 March 2022, Baghdad, Iraq.
- Keynote speaker at the International workshop on Environment and Water Resources at Al-Qadisiya University, 15-16 March 2022, Diwaniya, Iraq.

- Presentation on Water Resources 22 March, 2022 for Pan African University Institute for Water and Energy Sciences in celebrating the WORLD WATER DAY 2022.
- Presentation on Climate Change and Water Resources, 22 March 2022, Iraqi Ministry for Science and Technology, Baghdad, Iraq.
- Invited speaker, Global Summit on Power and Energy Engineering GSPEE 2022, March 23-25, 2022 Dubai-UAE
- Presentation on Water Resources in Iraq online during the workshop prepared by SOLIDARITES International at the French Institute in Erbil, 28 March 2022.
- keynote Speaker of the International Workshop on Environment and Water resources that will be held on 21-27 May 2022 at the College of Science, University of Al-Qadisiyah, Iraq.
- Keynote speaker in the workshop prepared by UNAMI (United Nations Assistance Mission for Iraq) 25 May, 2022.
- Presenting a paper and chairing a session at the conference held by the International Association for Hydro-Environment Engineering “39th IAHR World Congress 19-24 June 2022, Granada, Spain”.
- Presenting a paper at the 10th Annual International Forum on Water as part of the Annual Academic Meetings of the Natural & Formal Sciences Division, 11-14 July 2022, Athens, Greece.
- Online presenting a paper 2nd International Conference for Engineering Sciences and Information Technology (ESIT 2022), Anbar University, 17th – 18th August 2022.
- Keynote speaker at that the 17th International Symposium on Water Management and Hydraulic Engineering was organized by Gdansk University of Technology for the period 15-17 September at Gdansk, Poland. Paper title: Global Climate change and its effect on Iraq.
- Presenting paper on climate change and its effect on the environment in Iraq and chairing a session in the 4th Euro-Mediterranean International conference, 1-4 November, 2022, Sousse, Tunisia.
- Presenting paper on Application of the HELP Model in a Semi-Arid Waste Dumpsite: A Case Study in Sulaimaniyah, Iraq in the Mediterranean Geosciences Union (MedGU) international conference 27-30 November 2022 held at the conference center of Cadi Ayyad University in Marrakech.
- Keynote speaker at the international conference of Geographical Information Systems and Smart Cities, Baghdad, Iraq, 6-8 February 2023.
- Member of the organizing committee and keynote speaker at the International Summit on Environmental Science and Engineering, Paris, France, 15-17 June 2023
- Keynote speaker at the international conference Ninth International Congress of Agricultural Sciences held under the title “Smart agriculture... the way to achieve sustainable agriculture and confront climate change” , University of Tikrit, Tikrit, Iraq 13-14 March 2023.
- Keynote speaker at the international conference 2nd international conference of the University of Anbar - Upper Euphrates Basin Developing Center (Water between Scarcity and Sustainability), Anbar University, Anbar, Iraq, 15-16 March 2023.
- Keynote speaker at the meeting organized by the Center for Humanitarian Dialogue (Switzerland) workshop, Baghdad, Iraq, 20 March 2023.
- Third International Baghdad Conference on Water Resources, Ministry of Water Resources, Baghdad, Iraq, 5-7 May 2023.

- Keynote speaker at the "4th International Conference on Advances of sustainable Engineering and its Application (ICASEA2 023), Waset University, College of Engineering, Waset May 10, 2023.
- 15th International Congress on GIS and Remote Sensing Applications– GeoTunis15, 22-26 May, 2023. Presenting two papers the first paper: Threats to water security in the Arab world and the second paper: Climate change effect on water shortage in Iraq.
- Chairing a session in the 18th Annual International Symposium on Environment, Athens 10-13 July 2023 organized by Athens Institute for Education and Research.
- Coordinating a workshop for the Swiss center for Humanitarian Dialogue about water resources scarcity and its impact on the environment in Iraq on 28 August 2023 at Komar University of Science and Technology, Sulaimani, Iraq and giving a presentation and participating in panel discussion.
- Keynote speaker and chairing a session in the 3rd Global Congress on Climate Change (GCCC-2023) Sept. 13-15. 2023 at Barcelona, Spain
- Honorary Scientific Chair of the 22nd International conference for water and Environment to be held in Turkey Antakia 9-13 November 2023.
- Chairing a session and presenting a paper at the Mediterranean Geosciences Association annual scientific conference in Ankara for the period 26-30 November 2023 at Istanbul Technical University.
- Member of the Scientific committee of the Global Summit on Power and Energy Engineering, Dubai, UAE, 14-16 November 2024.
- Co-Chair for session 11 “Intelligent Engineering Systems and Applied Physics Sciences” in the 16th International Conference in Development in eSystems Engineering, Turkey, Istanbul, Atlas University 18-20 December 2023
- Presenting paper and member of the scientific and organizing committee and of the 12th Annual International Forum on Water, 15-18 July 2024, Athens, Greece
- Member of the scientific committee of the international conference on Civil and Structural Engineering, October 21-23. 2024, Edinburgh, UK.
- Member of the scientific committee and plenary speaker at the Global Summit on Power and Energy Engineering, November 14-16, 2024, (GSPower2024), Dubai, UAE

OTHER UNIVERSITY ACTIVITIES

1976 - Now	Supervision of postgraduate students (more than 70 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.
1996-2005	Developing scientific cooperation program (coordinator) in Water Resources between Al al-Bayt University and Exeter University, UK.

1995-2005	Developing scientific cooperation program (coordinator) in Water Resources between Al al-Bayt University and Wales University, UK.
1998-2005	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.
1998-2005	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.
01/2012	Coordinator and lecturer at the course on MODERN TEACHING AND RESEARCH TECHNIQUES, Special training course for university staff member's development at Lulea University – LTU, 16 January-10 February, 2012.
7-9/9/2015	Member of the Advisory committee for the 2nd International Conference on Purity, Utility Reaction and Environmental Research- PURE2015, Kuala Lumpur, Malaysia.
15-16/12/ 2015	Member of the scientific committee of the sixth International Conference for Environmental Sciences, University of Babylon.
10/2015-3/2016	Member of the Scientific Committee for the International Water Conference 2016 (Water Resources in Arid Areas: The Way Forward), March 13-16, 2016.
10-12/7/2017	Member, Scientific committee for the international conference on Petrochemical Engineering, Dubai, UAE
4/ 2018	Member of the organization committee for the International Conference on Oil and Gas, Singapore 12-13 September 2018.
12-15/11/ 2018	Member of the scientific committee (Track 6. Hydrology, hydrogeology, hydrochemistry), 1st Conference of the Arabian J. Geosciences (CAJG), Hammanet, Tunisia.
18 /11/ 2019	Representative of the Lulea University of Technology in Global Energy Association
1 /8/ 2022 - now	Head of department of Environment in Athens Institute for Education and Research (ATINER) (https://www.atiner.gr/environment-unit)
2023	Research Fellow of INTI International University, Malaysia

EDITORIAL BOARD OF SCIENTIFIC JOURNALS

1. Geological Society of Iraq, since 1980 and then its Chief Editor from 1981 to 1988.
2. Water Resources, Iraq from 1981 to 1992.
3. Al-Manarah scientific journal of Al al-Bayt University since 1997-2007.
4. Earth Sciences and Geotechnical Engineering member since 05/2011, and then chief editor since 2017.
5. Geosciences Research since 09/2011
6. Central European Journal of Engineering since 07/2
7. Purity Utility reaction and Environment Since 07/2011
8. International J. of Mathematics and Statistics Invention since 08/2013

9. International J. of Earth and Environmental Sciences since 09/2014
10. Mesopotamia Environmental Journal (MEJ) since 06/2014
11. Baghdad for Science since 4/2015
12. Open Engineering since 5/2015
13. Civil Engineering and Architecture Research 1/2014
14. International Journal of Engineering and Science Invention since 1/2016
15. Insights of Agricultural Technologies since 9/2017
16. World Wide Journal of Engineering and Technology since 3/2018
17. Asian Journal of Geographical Research since 4/2018
18. Science, Baghdad University since 4/2018
19. Iraqi Bulletin of Geology and Mining since 4/2018
20. Insight-Engineering and Technology since 6/2018
21. Earth & Environmental Science Research & Reviews since 6/2018
22. Water since 10/2018
23. International Journal of Earth Science and Geology (IJEG) Since 11/ 2018
24. Hydro Science & Marine Engineering since 01/2019
25. Engineering Science and Technology since 08/2019
26. Earth and Environmental Science Research (JEER) Since 10/2019
27. Engineering. Since June 2020.
28. Executive Editorial Board (EEB) Member of the Aro - The Scientific Journal of Koya University since 2020.
29. Open Journal of Geology (OJG) since 11/2020.
30. Motaleate Shahri Journal Since February 5, 2021.
31. Frontiers in Agronomy- Irrigation since March 1, 2021.
32. Acta Scientific Computer Sciences Journal since April 14, 2021.
33. International Journal of Recent Trends in Multidisciplinary Research (IJRTMR) since June 2021.
34. Current Indian Science Journal since December 2021.
35. Associate Editor in Frontiers in Agronomy – Irrigation since 30 April 2022
36. Universal Journal of Civil Engineering since 27 June 2022
37. Guest Editor for AIMS Press for Special Issue: Soil Quality and Health for the journal AIMS Geosciences since 30 June 2022.
38. Member of the editorial board of Athens Journal of Sciences since 14 July 2022.
39. Member of the editorial board of Athens Journal of Technology and Engineering
40. Member of the editorial board of BOHR International Journal of Internet of things, Artificial Intelligence and Machine Learning (BIJAM) since 21 July 2022.
41. Member of the editorial board of the journal Advances in Environmental and Engineering Research since 20 October 2022.
42. Member of the Editorial Committee in the Education section for for Región Científica Journal.
43. Editorial board of the Iraqi Journal of Civil Engineering (IJCE), Anbar University since January 2023
44. Editorial Board of Irrigation (specialty section of Frontiers in Agronomy) in the role of Review Editor since 25 May 2023
45. Editorial board of the Iraqi Journal Crop Genetics and Breeding, since January 2023 since December 2023.
46. Member of the editorial board of the journal Academic Journal of Politics and Public Administration since January 2024.
47. Member of the editorial board of the journal Recent Progress in Materials since January 2024.
48. Member of the editorial board of the journal Hydroecology and Engineering since March 2024.
49. Member of the editorial board of the journal Recent Progress in Sciences since March 2024.

A. Major Scientific Consultations:

- Geological, geophysical and hydrological investigation of Mosul dam area (1984) (10000 USD, Ministry of Irrigation, Iraq).
- Geological, geophysical and hydrological investigation of Mosul dam Reservoir (1985) (5000 USD, Ministry of Irrigation, Iraq).
- Bathymetry of Hemrin Reservoir (1986) (1000000 USD, Ministry of Irrigation, Iraq).
- Hydrological investigation of Hemrin Reservoir (1987) (10000 USD, Ministry of Irrigation, Iraq).
- Hydrological investigation to establish the best navigable route at River Tigris from Baghdad to Sammara and Tharthar canal (1990) (40000 USD, Ministry of Irrigation, Iraq).
- Hydrological analysis for preventing city Baghdad from floods (1991) (300000USD, Ministry of Irrigation, Iraq).
- Establishing position of intake pipes for AL hakam Factory (1991) (30000 USD, Ministry of Industry, Iraq).
- Hydrological investigation of Euphrates River at Bridge site (1991) (25000USD, Ministry of Transport, Iraq).
- Hydrological and geological investigation of Rawa Bridge site (1992) (15000USD, Ministry of Transport, Iraq).
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- De-watering of Hindiya cement factory site (1992) (16000USD, Ministry of Oil, Iraq).
- Stability of River Euphrates at Anbar power plant (1992) (25000USD, Ministry of Industry, Iraq).
- Geotechnical, hydrological and geophysical investigation for Baiji thermal power station sites (1992) (150000USD, Ministry of Industry, Iraq).
- Geological, geophysical and hydrological investigation of pumping storage scheme for generation of electricity at Makhul Mountain (1992) (350000USD, Ministry of Industry, Iraq).
- Hydrological investigation of River Tigris to find the best navigable route from Baghdad to Umarah (1992) (310000USD, Ministry of Irrigation, Iraq).
- Evaluation of the geometry of River Tigris at Baghdad for navigation purposes (1992) (320000USD, Ministry of Irrigation, Iraq).
- Possibilities of groundwater utilization from Um Radhuma aquifer (western desert) (1993) (250000 USD, Ministry of Irrigation, Iraq).
- Utilization of Groundwater on high way No.1 (Hit-Haditha to Km 251) (1993) (250000 USD, Ministry of Irrigation, Iraq).
- Utilization of groundwater on Highway No.1 sectors 2 and 3 (Km 251 to Iraqi-Jordanian border) (1993) (250000 USD, Ministry of Irrigation, Iraq).
- Hydrological investigation of Shammal Thermal Power Plant site (1994) (23000USD USD, Ministry of Industry, Iraq).
- Geological and Hydrological of the secondary Shammal Power plant site (1994) (23000USD, Ministry of Industry, Iraq).
- Various short-term consultancy activities for Electrical projects company (25000USD USD, Ministry of Industry, Iraq).
- Physical separation of iron deposits (1994) (12000USD USD, Ministry of Industry, Iraq).
- Installation of piezometers at Hemrin dam site (1994) (30000USD, Ministry of Irrigation, Iraq).
- Slope stability analysis of Wadi Al-sir Wastewater treatment plant, Jordan (1995) (5000USD, Ministry of Industry, Jordan).
- Hydrogeology of Hama spring, Jordan (1996) (4000USD, Ministry of Irrigation, Jordan).

- Sediment transport in selected valleys in Mafraq area (12000USD, AL-al Bayt University).
- Sediment transport in Badia desert using Cs isotope 137 (joint research project with Exeter University, U.K.).(50000USD, British Council- 1997).
- Utilization of Water resources in low rain areas east Mafraq. (360000USD, Ministry of Water and Irrigation, Jordan- 1996).
- Erosion and Sedimentation problems in different environmental conditions, their causes and control measures. (36000USD, UNESCO –1997).
- Optimization of meteorological stations in Badia area. (120000USD, Higher Council for Science and Technology – Jordan 1998).
- Sediment transport in Badia desert - Jordan (27000USD, 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. (40000USD Higher Council for Science and Technology – Jordan –1998).
- Natural Recharge of Ground water. (36000USD, Higher Council for Science and Technology – Jordan –1998).
- Water quality in the Badia region using remote sensing techniques. (joint project with Coventry University) (36000USD, British Council – 1999).
- Wastewater treatment and re-use (joint project with Liverpool John Mores University) (36000USD, British Council-1999).
- Multidisciplinary study for the development of water resources in the Badia region. (750000USD, World Bank –1998).
- Sustainable development of water resources and the environment in the Badia region. (125000USD, World Bank –1999).
- Water resources management in Sarhan Basin, Jordan. (40000USD, G-77 UNDP – 2000).
- Water resources management in the Badia region as an example of arid and semi-arid regions. (40000USD, G-77 UNDP –2001).
- Ancient Water Harvesting Schemes at Badia Region. (36000USD, UNESCO –2000).
- Wastewater treatment, management and re-use in Mediterranean countries. (500000EUR, EU –2002).
- Upgrading postgraduate labs in Earth and Environmental Sciences (40000 USD, Ministry of Planning, Jordan- 2002).
- Producing Efficient and High Quality Graduates for the Water Industry through Better Understanding and Implementation of Information Technology. (250000USD, World Bank –2000).
- Development of Multidisciplinary Postgraduate Research Program In Water Industry Oriented for Arid and Semi-Arid Regions (36000USD, 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.
- Identification of most appropriate activities to be conducted on water and sanitation in Iraq (5000USD, Agence Francaise de Development “AFD”. February, 2014).

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

- Five lectures at different seminars organized by Jordanian Environment Society (since1996).
- 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.
- Wastewater 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, 16 January-10 February, 2012, 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 for Iraqi University staff at Duhok Polytechnic and Zakho Universities, 21-27 February, 2014, sponsored by Duhok Polytechnic and Zakho Universities.
- Training course for Iraqi Universities staff at Sulaimani University, 4-16 May, 2014, sponsored by UNESCO and Sulaimani University.
- Mosul Dam Geological and Engineering problems, 20th April 2016, Iraqi Crisis conference, Rome, Italy.

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 Iraq.
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.
12-15/2018	Member of the scientific committee (Track 6. Hydrology, hydrogeology, hydrochemistry), 1st Conference of the Arabian J. Geosciences (CAJG), Hammanet, Tunisia.
4/ 2018	Member of the organization committee for the International Conference on Oil and Gas, Singapore 12-13 September 2018.
10/2019	Member of the editorial board, Journal of Earth and Environmental Science Research (JEER)
28/8/2023	Coordinating a workshop for the Swiss center for Humanitarian Dialogue about water resources scarcity and its impact on the environment in Iraq on 28 August 2023 at Komar University of Science and Technology, Sulaimani, Iraq and giving a presentation and participating in panel discussion.
9-13/11/2023	Honorary Scientific Chair of the 22nd International conference for water and Environment to be held in Turkey Antakia 9-13 November 2023.

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, 73-80.
2. *Al-Ansari, N. A., and McManus, J., 1975*, Calculation of sediment discharge in River Earn, Scotland, 9th inter. Cong. Sedimentology, Nice-France., 113-120.

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, 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, 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, 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, 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, 45-52.
11. *Al-Ansari, N.A., and McManus, J., 1980*, Re-investigation of the bathymetry of Loch Earn, Scotland, Scott. Geo. Mag., 97, 105-113.
12. *Al-Ansari, N.A., McManus, J., Al-Jabbari, M. and McDonald, D., 1980*, Analysis of shear stresses in a gravely river, J. Geol. Soc. Iraq, V.13, No.1, 25-44.
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, 9-20.
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, 53-59.
15. *Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1980*, The effect of farming and housing upon sediment transport in a gravely river. Influence of man of the hydrological regime (Intern. Symposium), Helsinki IHS Pub. No. 130, 257-263.
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, 157-162.
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, 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, 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, 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, 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, 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, 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, 311-316.
24. Al-Ansari, N. A., Assaid, H. I. and Salim, V. N., 1981, Water resources in Iraq, J. Geol. Soc., V15, 35-42.
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, 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, 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, 43-55.
28. Malaz, M., Ali, S.H., McManus, J., and Al-Ansari, N.A., 1982, The recognition and behaviour of grain sub-populations in the sediments from the Adhaim basin, Iraq, J. Geol., Soc. Iraq, V. 15, No. 1, 40-46.
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, 1105-1111.
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, 1098-1104.
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, 70-89.
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, 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, 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, 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, 1-23.
36. Al-Ansari, N.A., Al-Jabbari, M., Barazachi, A. and Gayarah, A., 1984, Geological, geophysical and hydrological investigation of Mosul dam area, Report submitted to the Iraqi Ministry of Irrigation.
37. Al-Ansari, N.A., Al-Jabbari, M., Barazachi, A. and Gayarah, A., 1985, Geological, geophysical and hydrological investigation of Mosul dam Reservoir, Report submitted to the Iraqi Ministry of Irrigation.
38. 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, 277-286.
39. 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, 157-162.
40. Al-Ansari, N. A., and Ali, J. L., 1986, Suspended load and solute discharge in River Tigris within Baghdad, J. Water Res., V. 5, 35-50.

41. 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, 98-116.
42. 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, 622-640.
43. 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, 641-653.
44. 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, 102-115.
45. Al-Ansari, N.A., and Al-Sinawi, G., 1986, Hydrology of Arabian Gulf, 1st Conf. on Arabian Gulf, Baghdad, 97-109.
46. 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, 67-83.
47. Al-Ansari, N. A., Sayfy, A., Ovanessian, A.A., and Al-Sinawi, G.T., 1986, Water Quality of the River Tigris north of Baghdad using multivariate analysis, J. Water Res., V. 5, No. 2, 148-172.
48. Al-Ansari, N. A., Sayfy, A., Al-Sinawi, G.T., and Ovanessian, A. A., 1986, Evaluation of the water quality for the lower reaches of River Tigris using multivariate analysis, J. Water Res., V. 5, No. 2, 173-187.
49. Al-Ansari, N. A., Toma, A., and Al-Sinawi, G.T., 1986, Continuous monitoring of suspended sediment and solute loads of the River Tigris at Baghdad, J. Geol. Soc. Iraq, V. 19, No. 1, 1-23.
50. Al-Jabbari, M. H., Al-Ansari, N. A., 1986, Quality and ionic balance at the lower reaches of Rivers Tigris and Euphrates, (Unpublished confidential).
51. Al-Jabbari, M. H., Al-Ansari, N. A., and Hussien, B. M.N., 1986, Hydro chemical characteristics of River AL-Khair, Iraq, J. Geol. Soc. Iraq, V. 19, No. 1, 13-25.
52. Al-Ansari, N. A., Al-Sinawi, G.T., and Jamil, A. K., 1986, Suspended and solute loads on the lower Diyala River, Drainage Basin Sediment Delivery, IAHS Pub., No. 159, 225-235, Canada.
53. Al-Ansari, N. A., Salman, H. H., and Al-Sinawi, G.T., 1987, Periodicity of selected water quality parameters for the Tigris water at Baghdad, J. Water Res., V. 6, No. 2, 11-17.
54. Al-Ansari, N. A., and Al-Sinawi, G., 1987, Water quality of the Tigris water at Baghdad, using multivariate analysis, J. Water Res., V. 6, No.1, 54-81.
55. Al-Ansari, N. A., Assad, N. and Rahma, A., 1987, New mathematical approach for recognition of sedimentary environments, J. Geol. Soc. Iraq, V. 20, No. 1, 136-156.
56. Al-Ansari, N. A., (Ed.) 1987, Hemrin Reservoir: Geological and Hydrological Investigation, J. Water Res., Special Pub., No. 2.
57. AL-Ansari, N. A., AL-Jabbari, M.H and AL-Shakiri, A., 1987, Geology of Diyala basin, (In Hemrin Reservoir: Geological and Hydrological Investigation), J. Water Resources special pub. No.2, 67p.
58. AL-Ansari, N. A., Asaad, N. M., AL-Jabbari, M.H., and Millard, G., 1987, Bathymetric survey of Hemrin dam reservoir, (In Hemrin Reservoir: Geological and Hydrological Investigation). J. Water Resources special pub. No.2, 25 p.
59. AL-Ansari, N. A., AL-Jabbari, M.H and AL-Sinawi, G., 1987, Surface water chemistry of Hemrin reservoir, (In Hemrin Reservoir: Geological and Hydrological Investigation). J. Water Resources special pub No.2, 28 p.

60. AL-Ansari, N. A., AL-Sinawi, G., and AL-Jabbari, M.H., 1987, Hemrin reservoir Sediments, (In Hemrin Reservoir: Geological and Hydrological Investigation). J. Water Resources special pub No.2, 25 p.
61. AL-Ansari, N. A., Assad, N., Walling, D. E., and Hussan. S. A., 1988, The suspended sediment discharges of River Euphrates at Haditha, Iraq, Geografiska Annaler, 70 A, 3, 203-213.
62. AL-Ansari, N. A., and Al-Sinawi, G.T., 1988, Periodicity of suspended sediments concentrations in the River Tigris at Baghdad identified using short interval sampling, Inter. Symp. On sediment Budgets, IAHS Pub. No. 174, Brazil, 353-357.
63. Hussain S.S., AL-Ansari, N.A and Zakko, S.,1988, Intrinsically non-linear regression model for prediction of return period of flood and draught, J. Water Res., V. 7, 56-69.
64. AL-Ansari, N. A., Al-Hamdani, A. and Sayfy, A. 1988, Probability of the return period of draught in Greater Zab River, J. Water Res. V. 7, 81-97.
65. Al-Jabbari, M.H., AL-Ansari, N. A., and Faiq, S. Y., 1989, Chemical composition of rainwater in Baghdad area, Iraq Jour. Science, V.30, No 1, 67-56.
66. AL-Ansari, N. A., and Al-Sinawi, G.T., 1989, Suspended sediments waves in lower Diyala River for the period June 1984, July 1987, 4th ISRS, Beijing, China.
67. Hassan, H. A., AL-Ansari, N. A., Zaki, N.A., and Salih, A. Y., 1989, Hydro meteorological approach and hydrographic analysis for water surplus determination Erbil Basin, North Iraq, Scientific Research Council, 3rd Conference, Baghdad, paper No. 1, 1-46.
68. AL-Ansari, N. A., Al-Shamari, S.H., and Sayfy, A., 1990, Probability of return period of flood for River Euphrates at Hit, J. Water Res., V. 9, 86-102.
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3. *Toma, A. Y., 1983*. Hydrological and morphological investigation of River Tigris at AL-Adhamiya, Baghdad, M. Sc. Thesis, University of Baghdad (in Arabic).
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6. *Salman, H. H., 1987*, Geochemistry and Hydrology of Euphrates River, Iraq. Ph. D., Thesis, University of Baghdad (in Arabic).
7. *Hassan, I. O., 1988*, Hydrology of Tigris River at Mosul, M. Sc. Thesis, University of Baghdad (in Arabic).
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ON GOING POSTGRADUATE STUDENTS RESEARCH PROJECTS

1. Alkaradaghi, K.M.R., Site selection municipal solid waste management using GIS technique, Joint supervision with Sulaimani University, Kurdistan Region, Iraq.
2. Rauf L.F., Feasibility of using underground thermal energy storage (UTES) system in selected sites within Halabja governorate/ NE Iraq), Joint supervision with Sulaimani University, Kurdistan Region, Iraq.
3. Sulaiman D.S., Evaluation the Accuracy assessment of DIM produced by satellite imagery based on truth data: A case study of AL-Wind Dam, Joint supervision with the University of Technology, Iraq
4. Liaghat S., Structured and Unstructured Data Analysis to Improve Mining Productivity, Lulea University of Technology, Sweden

REFERENCES

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