

Personal Data

Amir Bakheit Saeed

Nationality: Sudanese

Religion: Islam

Date of Birth: 1/1/1943

Marital Status: Married with two sons and four daughters

Address: Dept. of Agric. Eng., Faculty of Agriculture, Shambat,
University of Khartoum, Sudan.

Mobile: 0912660105

Tel: 0155325216, Shambat, Khartoum North

E-mail: absaeed5@yahoo.com

Present Status: Associate Professor

Academic Qualification

- 1977 **Ph.D.** Agric. Engineering (Soil and Water Engineering).

Thesis: The Development of Cumulative Flow Meter for
Small Irrigation Channels.

National College of Agricultural Engineering (N.C.A.E.)

University of Reading - United Kingdom.
- 1972 **M.Sc.** Agricultural Engineering.

Thesis: Estimation of Flow in Small Irrigation Channels.

University of New Castle Upon-Tyne, United Kingdom
- 1968 **B.Sc.** (Hons) Agric., First Class

Major Option: Farm Mechanization.

Dissertation: Evaluation of the Surface Irrigation Methods

With special emphasis on Long Furrow Irrigation.

Faculty of Agriculture, University of Khartoum, Sudan.

- 1963 **Sudan School Certificate** (Grade One), Wadi Seidna

Secondary School, Sudan.

Post graduate Diplomas

- 1980 Diploma of the International Soil and Water Conservation

Engineering Research Workshop. International Institute of

Tropical Agric. (I.I.T.A.) - Ibadan-Nigeria.

- 1980 Diploma of the International Land Drainage Course - (ILRI & IAC) -
Wageningen - The Netherlands.

- 1981 Certificate of the International Water Resources

Engineering Course, Jaroslav Cerni Institute and the Faculty of Civil Engineering. University of
Belgrade, Yugoslavia.

Professional Experiences

(D)Teaching Experience:

Faculty of Agriculture, University of Khartoum

Undergraduate Courses:

1. Principles of Irrigation and Drainage Engineering.
2. Irrigation Systems, Design and Evaluation.
3. Applied Hydraulics.
4. Surveying and Farm Building.
5. Hydrology.
6. Soil - water - plant relationship.
7. Soil and water conservation engineering.

8. Introductory Physics to Agriculture.
9. Agric. Surveying & Land forming.
10. Water Resources Engineering.
11. Research Methodology

Graduate Courses:

1. Irrigation and Drainage Engineering.
2. Environmental Engineering.
3. Irrigation Systems Evaluation and Irrigation Water Management.
4. Soil and Water Conservation Engineering.
5. Research Methodology and Dissemination of Technical Information.
6. Seminars.

Postgraduate Diploma (Field Irrigation and Power Machinery)

1. Introduction to Surveying
2. Principle of Irrigation and Agricultural Drainage.
3. Water Resources.
4. Soil and Water Conservation.
5. Agricultural Surveying and land Forming
6. Renewable Energies.
7. Irrigation Water Measurements and Control Structures.
8. Pumps and Pumping.
9. Water Conveyance. (Open and Closed Conduits).
10. Technology Transfer and Adaptation.
11. Environmental Impact of Irrigation.
12. Land Leveling Equipments.

13. Field Training.

Faculty of Forestry, University of Khartoum

Undergraduate Courses:

1. Principles of Irrigation and Drainage Engineering.
2. Introductory Physics to Agriculture and Forestry.

Faculty of Animal Production, University of Khartoum

Undergraduate Course:

1. Introductory Physics to Agriculture and Animal Production.

Faculty of Agricultural Sciences, University of Sudan for Science and Technology

Undergraduate Courses:

1. Irrigation and Drainage Engineering
2. Irrigation Systems, Design and Evaluation.

Diploma Courses:

1. Irrigation & Drainage
2. Introduction to Surveying.

Graduate Courses

1. Research Methodology

Faculty of Agriculture and Natural Resources, University of Kordofan

Undergraduate Courses:

1. Irrigation and Drainage Engineering.
2. Surveying and Farm Building

Faculty of Agriculture and Natural Resources University of Gedarif

Evaluation of BSc graduation Projects.

Faculty of Agriculture (Abo Naáma) University of Sinnar

Undergraduate Courses:

1. Irrigation and Drainage Engineering.
2. Surveying and Farm Building.
3. Evaluation of BSc graduation Projects

Faculty of Agriculture and Natural Resources, University of Kasala

Evaluation of BSc graduation Projects

Faculty of Agriculture and Natural Resources, University of Juba

Undergraduate Courses:

1. Irrigation and Drainage Engineering.
2. Irrigation Systems, Design and Evaluation.
3. Soil and water conservation engineering.

Faculty of Agriculture & Food Sciences, King Faisal University, Saudi Arabia

Undergraduate Courses:

1. Irrigation and Drainage Engineering.
2. Irrigation Systems, Design and Evaluation.
3. Applied Hydraulics.
4. Surveying and Farm Building.
5. Hydrology.
6. Soil - water - plant relationship.
7. Soil and water conservation engineering.
8. Introductory Physics to Agriculture & Veterinary Science.
9. Agric. Surveying & Land forming.
10. Water Resources Engineering.
11. Research Methodology

Supervised M.Sc and/or PhD Programs at the Following Universities:

- Omdurman Islamic University
- Gezria University
- Gedarif University
- Juba University
- Zalingei University
- Wadi El Neil University
- Dongla University
- West Kordofan University
- King Faisal University Saudi Arabia
- United Arab Emirates (U.A.E) University
- Sanaa (Yemen) University.

Administration Experience

- 1990-1992 Head Dept. of Agric. Engineering, Faculty of Agriculture, University of Khartoum Sudan.
- 1992-1993 Managing Director – North Gezira Agric. Project for Dairy and Milk Production – Ministry of Agric & Forestry., Sudan.
- 1993-1994 Deputy then Acting Dean – Faculty of Agriculture, University of Khartoum, Sudan.
- 1994-1996 Head Dept. of Agric. Engineering, Faculty of Agriculture, University of Khartoum, Sudan.
- 1996-1998 Director of Water Resources Directorate, Arab Organization for Agricultural Development (AOAD), League of Arab States (LAS).

Postgraduate Supervision

(i) Ph.D. level:

Title of Thesis	Year	Candidate Name

1. Repair and Maintenance Cost and time of Replacement Models for the Agric. Tractor in Sudan.	1997	Mahmoud Hassan Ahmed
1. Rain Water Harvesting for Crop Production Under Zalingei Condition – Western Sudan. (Co-Supervisor)	2000	AdamA/Rahman Mohamed
3. Design and Evaluation of Sprinkler Irrigation System.	2001	Galal Yousif Al-Araki
4. Simulation and Optimization of Irrigation water Demand and Supply	2001	Haitham R. Elramlawi
5. Effect of Tillage Operations on the Physical and Mechanical Properties of Heavy Clay soil, and Wheat Production (Co-supervisor)	2003	Hamza El Harith Mutran
6. Rainfall Prediction and its Impact on Water Resources Management in Central Sudan	2005	TarigElgamri Ata Elmanan
7. Study on the Drip Irrigation Hydraulic Characteristics and the Impact on Irrigation Efficiencies Compared to Surface Irrigation for Tomato Production under Sana'a conditions	2005	A/Karim Mahamed Ahmed El Mujahid
8. Reusing Treated Waste Water for Forge (Sorghum bicolor) Production under Khartoum State Condition – Sudan.	2007	Ali Widaá Mohamed Elamin
9. Management Perspective on The Performance of the Irrigated Sub-sector – Case Study Rahad Scheme	2007	Osman Roman Jermalili Kiri
10. A Software Tool (CPM) For Appropriate Design and Evaluation of Center Pivot Irrigation System.	2008	Hassan El-Haj Hamed Al-Sayim
11. Effect of Irrigation Methods and Differential Watering on Young Date Palm Trees (Phoenix dactylifera) Growth Under River Nile State Conditions.	2008	Yassir Mohamed Ibrahim

(ii) M.Sc. level

Title of Thesis	Year	Candidate Name
1. Some studies on the Watering Efficiencies of Long Furrows at Khartoum University, Top Farm	1981	Mohamed Ahmed Ibrahim
2. Hydraulics of Long Furrow Irrigation with Reference to Rahad Irrigation Project.	1982	Hassan Ibrahim Mohamed
3. Mechanized Sesame Harvesting.	1983	Elsadig Elmahdi Ahmed
4. Improving Efficiency of Centre Pivot, Irrigation System by Combined Trickle Centre Pivot Technology.	1989	Ahmed ElNaeem ,K.F.U. Saudi Arabia
5. Evaluating Performance of Minor Canal Operation Case Study Rahad Irrigation Project.	1993	Hashim Ali Mohamed Fadl
6. Evaluation and Modification of Kubota Rice Transplanter under Sudan Conditions.	1994	Ali A/Rahman Ahmed
7. An On-farm Water Management with Reference to Rahad Irrigation Project.	1995	A/Aziz Mohamed Warrag
8. Evaluation of Efficiency and Performance of Irrigation System in the University of Khartoum Top Farm	1996	Greeb Alla ElTayeb A/Alla
9. Effect of Some Tillage Practices on Soil Moisture Conservation and Sorghum Yield under Rain-fed Condition of Sudan.	1996	Hassan Yousif Eisa
10. The Effect of Water Quality and Quantity, Frequency of Irrigation and Soil Amendment on Intermittent Evaporation, Moisture Distribution and Salt Redistribution Through A Fine-Textured Saline Sodic Soil.	1996	Anwar Mohamed Ibrahim
11. Evaluation and Improvement of Basin Irrigation System A Case Study in Rahad Irrigation Project.	1997	Muna Mohamed ElHag
12. Development and Evaluation of Low-Cost Building Materials for Canal Lining.	1998	Tarig Elgamri Ata Elmanan
13. Suitability of Centre Pivot Irrigation System for the	2001	Mamoun Mohamed Mohamed

Proposed ElFidda Scheme in the River Nile State.		Saeed
14. Water Resources in the Sudan: Perspectives and Prognosis.	2001	Husna ElAgib
15. Perspectives of Farmer's Attitudes and Gender Issue in Irrigation Water Management.	2001	Ilham Nasr Alla Ali Karar
16. Advanced Treatment of Waste Water by Solar Energy for Reuse in Irrigation.	2002	Rabah A/Rahman Amein Eltoum
17. Evaluation of Flush Irrigation case study Gash Irrigation Project.	2002	Ishraga Ahmed Hamid ElHag
18. Prospects of Reusing Waste water for Irrigation under Sudan Conditions	2003	Sulafa Mohamed Ahmed Omer
19. The Effect of Tillage Operations & Watering duties on Maize Production (<i>Zea mays</i> L.)	2003	Najat Magzoub Ahmed
20. Performance of Small Centrifugal Pumps in Khartoum State.	2004	Nezar Abdelhameed Mustafa
21. Evaluation of Two Modern Irrigation and a conventional Method under Sudan Conditions	2004	Ashraf Husham Mustafa Salih
22. A Comparative Study between Drip and furrow Irrigation systems for producing Okra (<i>Hibiscus esculentus</i>)	2004	Khalid Mubashar Mustafa
23. Performance and Evaluation of Center pivot Irrigation system for Lucerne production in the River Nile Sudan	2004	Mohamed Abu elgasim Osman Ali
24. Effect of Magnetizing Irrigation water and seeds on the production of Okra (<i>Hibiscus esculentus</i>)	2004	Awad Mohamed Elhasan
25. Effect of Drip Irrigation on the production of Kidney Beans (<i>Phaseolus Vulgaris</i>) Under the open field Conditions (أثر استخدام الري بالتنقيط علي انتاج محصول الفاصوليا تحت ظروف الحقل المكشوف	2004	Shakir Babikir Ahmed Khalifa Omdurman Islamic University
26. Effect of Magnetized Water on the Growth and Production of Kidney beans (<i>Phaseolus vulgaris</i>) (اثر الماء (الممغنط علي نمو وانتاجية الفاصوليا	2005	Seif El Eslam Mohamed Omdurman Islamic University

27. Determination of Friction Head Losses in Trickle (Bubbler) and Sprinkler Irrigation Systems	2006	Alawi Mohamed Alawi Alsaqaf (UAE)
28. Adaptation & Evaluation of Magnetic Technology for Vegetable Production under open field Drip Irrigation System	2006	Dalal Eltayeb Basher
29. Water and Food Security in Sudan	2006	Ehab Elamin Muddathir
30. Using Magnetized Water and Seeds on the Production of Cucumber under Cooled Plastic Tunnels	2006	Shaima Fathi
31. Response of Mango (<i>Mangifera indica</i> L.) and Lime (<i>Citrus aurantifolia</i> L.) to magnetized Irrigation Water.	2006	Elsir Mohammed Lhassan
32. Hydraulic Characteristics on the Design and Performance of Drip Irrigation System	2006	Abu Obaida Mohamed Elobaid
33. Effect of Magnetized Water & Seeds on the Production of Fodder Sorghum (<i>Sorghum bicolor</i>)	2007	Omar Yousif .Numan
34. Assembling and Performance Evaluation of Centre Pivot Irrigation System New Hamdab Irrigation Project Northern State, Sudan	2008	Zuhair Abdalmalik Elhassan
35. Production of Tomato (<i>Lycopersicon Esculentum</i>) under Open Field Drip Irrigation System.	2008	Leila Osman Hassan El-Shafee
36. A comparative Study of Drip and Furrow Irrigation System for the Production of Okra (<i>Abelmoschus esculentus</i>) Under Open Field Conditions.	2008	Fathia Al-Fadil Hamed Ali
37. Effect of Magnitized Water and Nitrogen Fertilization on Growth and Yield of Cucumber (<i>Cucumis sativas</i> L.) under Cooled Plastic Houses.	2008	Awad El-Kareem Ahmed Mohammed Salih
38. Evaluation of the Performance of Center Pivot Irrigation System for Irrigation Scheduling.	2008	Mohamed Ibrahim Obied Alla Mahdi
39. Effect of Insitu Water Harvesting on Yield and Yield Components of Sorghum (<i>Bicolor</i> L) in North of Gadaref State, Sudan.	2008	Omer Isamil El-Tayeb

40. Performance of Semi Portable Soild Set Sprinkler Irrigation System in Khartoum State-Sudan	2008	Ayman Hassan Suliman Khalil
41. Use of Treated Waste Water by Drip Irrigation System to Produce Vegetables and Ornamental Plants Under Sudan Conditions.	2009	Nidal Ibrahim
42. Effect of Land Preparation on Growth and Yield of Onion (Alluim cepa. L.)	2009	Randa Osman

(H) Contributed as Internal and External Examiner for many graduate (MSc, Ph.D) Students in many National and Regional Universities and Institutions:

(I) Contribution to Conferences, Symposia, Workshops & Scientific Meetings:

- **Saeed, A. B.** Irrigation Systems in Sudan – Problems and Suggested Solutions (in Arabic) Conference on Irrigated Agric. In the Arab World organized by Arab Organization for Agricultural Development (AOAD) 13-18 Feb.1982 Khartoum- Sudan

- Attended the Eighth Symposium on the Biological Aspects of Saudi Arabia, King Faisal University (KFU) 12-14 March 1985, and made joint presentations with others for the following research activities:-

- The Use of a synthetic polymer product as a soil conditioner.
- Effect of tillage treatments on soil moisture holding capacity under Al-Hassa conditions.
- Reuse of drainage water for leaching purposes under Al-Hassa conditions.

- Attended the Second International Symposium on Date Palm, K.F.U. Al-Hassa 3-6 March 1986 and made joint presentations with others for the following research activities:-

- Field estimation of irrigation scheduling of date palm under Al-Hassa conditions.
- Consumptive use of water for date palm under the climatic conditions of Al- Hassa Oasis.
- Effect of moisture retaining agents on the watering regimes for the establishment of date palm offshoots.
- Optimum irrigation method for date palm under Saudi conditions.

- Attended the Ninth Symposium on the Biological Aspects of Saudi Arabia, Riyadh, 24-27 March 1986 and made joint presentations with others for the following research activities:-

- Effect of soil moisture retaining product "Culture plus" on barley growth.
- Optimum tillage for wheat under Saudi conditions.

- **Saeed, A.B.** Research Programmes on the Management of Water and Irrigation, a seminar conducted within the programmes of the Role of Research in Agric. Sciences, organized by the FAO in collaboration with the Saudi Ministry of Agric. and Water, Riyadh, 28th March - 22nd April, 1987.

- **Saeed, A.B.**, H.Etwy, O. Duheash, O.Aly-Hassan, Assessment of Date palm Water Requirements under Al-Hassa Conditions, Second Symposium on Date Palm Proceeding, 1987 pp 304-374.

- Attended the Tenth Symposium on the Biological Aspects of Saudi Arabia, Jeddah, March, 1988 and made joint presentations with others for the following research activities:-

- Evaluation of drip irrigation performance in green houses.
- Zero tillage for wheat production.
- Irrigation requirement of date palm offshoots.
- Tillage systems for wheat production under arid conditions

- Aly-Hassan, O.S; **A.B. Saeed**. Irrigation Experience in Arid Region, presented in the Summer Meeting of ASAE, Quebec, Canada, 1989.

- **Saeed, A.B.**, Efficient Use of Water by Adopting Modern Irrigation Systems a paper (in Arabic) presented to the Regional Symposium on the Use of Modern Irrigation Systems in the Arab Countries - Organized by the Arab Organization for Agric. Development (AOAD), Elghonytra - Morocco, 8-10 Oct. 1991.

- **Saeed, A.B.** Possibility of Modernizing Irrigation Systems in Sag Elniam Agric. Project (West Sudan) - a paper (in Arabic) presented to the Seminar of the preliminary Survey and study of potentialities of Sag Elniam Agric. Project, organized by the Project Dept. of the Ministry of Finance - Khartoum, 28, May. 1991.

- **Saeed, A.B.**, Appropriate Agric. Eng. Arabic Terminologies and Methodologies presented to the Seminar on Terminologies and Methods of Teaching Agric. Sciences in Arabic, organized by the Fac. of Agric. U. of K. and the Sudanese Higher Arabicization Committee, Khartoum, 5-8 Jan., 1992.

- *Gideon, C.; **A.B. Saeed**; H.I. Mohammed, Major Canal Performance Evaluation of Rahad Irrigated Scheme. The News - F.O.P. of the International Irrigation Management Institute (IIMI) May/June (9): 11-31, 1994.

- ***Saeed, A.B.** and A.M. Abdalla, An Approach to Economize Irrigation Water Use and Energy in Small Orchards under Dry and Semi-dry Conditions Presented to the Symposium of Developing Human Resource for Improving Water Use Efficiency - Agric. Res. Corporation Wad Medani - Sudan, 11-12 Dec. 1995.

- ***Saeed, A.B.** and A.E. Mohamed, Training Program on the Use of Modern Irrig. Systems - State Ministry of Agric, Food, Natural Resources and Irrigation- Khartoum - Sudan, Sept. 1995.

- ***Saeed, A.B.**, Technologies Appropriate for Water Resources Development for Agric. Use and Drought Control - a paper (in Arabic) presented to the Arab First Ministerial Conference for Agriculture and Water - March, 1997, Cairo - Egypt.

- ***Saeed, A.B.**, HighLights on AOAD's Activities on Land and Water Resources, presented to the Meeting of the Regional Interagency Task Force (IATF) on Land and Water Resources, RNE/FAO Cairo - Egypt 12 June, 1997.

- ***Saeed, A.B.**, Resume' of AOAD's Water Resources Programmes Presented to the Regional Meeting of the International Hydrological Programme (IHP) Committee, Rabat, Morocco, 8-12 Sept., 1997.

- * **Saeed, A.B.**, Conventional and Nonconventional Methods Practised for the Development of the Arab Water Resources; Water Seminar, Organized by the Arab Agric. Engineers Association, Khartoum, Sudan, 23-25 April, 1997.

- ***Saeed, A.B.**, An Overview on AOAD's strategies in relation to Water Policy Reform in the Arab Region - proceedings of the 2nd Expert Consultation on National Water Policy Reform in the Near East, RNE/FAO Cairo, 1998. pp. 203-213.

- ***Saeed, A.B.**, M.A. Omar; A.E. Mohamed, Water Resources Development and Improvement of Irrigation Means for Irrigated Agriculture in the Sudan. A paper (in Arabic) presented to the Symposium of Agricultural Mechanization in Sudan. Organized as part of the Sudan 5th Agric. Fair and AOAD Silver Jubilee 18 - 19 March, 1998.

- ***Elgamri, T; A.B. Saeed**, Intermediate Technology for Water Conservation Experience of Rawakeeb Dryland Research Centre (RDRC) A paper presented at Dubai International Conference on Desertification - Dubai - UAE 12-15 Feb. 2000, Zayed International Prize for the Environment.

- ***Saeed, A.B.** and T. Elgamri, Appropriate Technologies for Water Resources Conservation, Development and Management in Drylands. A paper presented at the Symposium on Development Challenges on Drylands Organized by the National Centre for Research (NCR), Khartoum, Sudan, 19-21 June, 2000.

- ***Saeed, A.B.** An Approach for Conserving Water and Energy for Small Orchards under Arid and Semi-arid Conditions. Dubai International Conference on Water Resources and Integrated Management in the Third Millennium, Dubai, United Arab Emirates, 2-6 Feb. 2002.

- ***Saeed, A.B.**, An Approach for Water and Energy Conservation for Ornamental Trees under Arid and Semiarid Conditions. The 3rd International Conference on Horticulture in Arid Zone Organized by Al Ain Municipality & Town Planning Dept. in Collaboration with UAE University, Al Ain, UAE, March 15-17, 2003.

- ***Saeed, A.B.**, M.H. Ahmed & T. Elgamri, New Trends and Innovations on Water Conservation and Efficient Use. The 3rd International Conference on Horticulture in Arid Zone organized by Al Ain Municipality & Town Planning Dept. in Collaboration with UAE University Al Ain, UAE, March 15-17, 2003.

- ***Saeed, A.B.** & S.M.A. Omer, Reuse of Wastewater Under Sudan Conditions - 1st National Conference on Water Resources Management and Efficient use in Agriculture organized by the Faculty of Agriculture, University of Damascus, Syria, May 28-29, 2003.

- ***Ahmed, A.A.; A.B. Saeed & A.E. Mohamed**, Effect of Water Harvesting Techniques on Soil Moisture Status and Sorghum Performance, a paper presented at the Conference on Water Harvesting and Prospects of Development in Sudan, Organized by UNESCO Chair for Water, Islamic University under the Forum of Water Harvesting for Food Security and Sustainable Development, Aug 19-20, 2003 Friendship Hall, Khartoum.

- ***Elgamri, T; A.B. Saeed & A.K. A/Allah**. The Influences of Climate Changes on the Rangeland of the Sudan and the Possible Mitigation Measure, Proceedings of the 7th Rangeland International Congress - Durban - S. Africa, 2003.

- Mustafa, M.A.; **A.B. Saeed**, Strategy and Methodology of Scientific Research on Desrtification in Sudan: Soil and Water Conservation, University of Khartoum, UNESCO Chair on Desrtification. Desrtification and Desert Cultivation Studies Institute (DADCSI) - 16-18 March 2004, Alsharga Hall, University of Khartoum - Sudan.

- *Salih, M.K.; **A.B. Saeed**, and S. Abdalla, Strategy and Methodology of Scientific Research on Desrtification in Sudan: Water Sector, University of Khartoum, and UNESCO Chair on Desrtification. Desrtification and Desert Cultivation Studies Institute (DADCSI) - 16-18 March 2004, Alsharga Hall, University of Khartoum - Sudan.

- ***Saeed, A.B.** Prospects of Reusing Treated Sewage Water for Agricultural purposes under Sudan Conditions, the International Conference on Emerging Technologies in Agriculture and Food Engineering (etae 2004), Indian Institute of Technology, Kharagpur , India 14-17 Dec ., 2004.

- *Widaá, A; **A.B.Seead** and H.Destil, Appropriate Management of Water Resources in Sudan and its Impact on the Political and Social Stability, ARCA.-Net International Workshop 2005, Sub Sahara Africa, Arusha, Tanzania 5-12 Dec.2005.

- ***Saeed, A.B.** A Survey Study on Irrigated Farming in Sudan with Reference to Three Large –Scale Schemes. African Universities

Congress on Interaction and Interrelation in Africa – International University of Africa, Khartoum-Sudan, Jan. 2006

- *Elgamri, T; **A.B. Saeed** & A.K. A/Alla, Impact of ENSO and SSTs on Wadi Water Resources in East Central Sudan. 4th International Wadi Hydrology Conference, Sultanate of Oman 2-4 Dec., 2007.

(J) Membership of Professional Societies & Scientific Organizations:

1- Member of the Institute of Agric. Eng. (M.I.Agr.E.)

2- T. Eng. (CEI).

3- Member of the Association for the Advancement of Agricultural

Sciences in Africa (MAAASA).

- 4- Member of the Sudanese Agric. Soc. (MSAS).
- 5- Member of the Cranfield Institute of Technology Society - U.K.
- 6- Member of the Sudanese Association for Combating Desertification
- 7- Co-editor for AMA. Journal, Japan.
- 8- Member of Sudan Expert Directory.
- 9- Member of the Sudanese Meteorology Society.

Consultation Activities

- Member of the consultancy team requested by the Rahad Agricultural Corporation during 1979 - 80 to evaluate the agricultural implements introduced by the International Nardi of Italy.
- Member of the Consultancy Team requested by the Arab Organization for Agricultural Development (AOAD) to study and evaluate the Agricultural Potentials of Lower River Atbara Area in Sudan, July 1980.
- Member of the Consultancy Team requested by the State Minister of Agriculture for Kordofan Region to study, evaluate and conduct seminars on Agric. Development and Improvement of Irrigation Methods in the Region, Dec. 1981.
- Member of the Consultancy Team requested by the Governor for the Northern Region of Sudan to evaluate the rural and agricultural development in the Shendi area, January 1982.
- Member of the Consultancy Team requested by the Arab Organization for Agricultural Development (AOAD) to evaluate and recommend improvement of the Irrigation and Drainage Systems in Abu Samra Sheep Farm, Ministry of Industry and Agric. - State of Qatar, July 1982.
- Member of the Consultancy Team who evaluated the performance of the irrigation and drainage systems of the King Faisal University Farm for Research and Training, Saudi Arabia (1982 - 1988).
- Member of the Consultancy Team requested by the Arab- Sudanese Seed Company (ASSCO) to evaluate and rehabilitate the agricultural activities and improve or modernize the irrigation system of the company's agricultural station at Dongola – Northern State – 2004.
- Team leader of the consultancy group formed by the university of Khartoum Consultancy Corporation (UKCC) to operate design, layouts and implement center pivot sprinkler irrigation systems inn three different resettlement irrigated agriculture project associated with the Implementation of Merawe Dam by the Dam Implementation Unit (DIU) since 2005.
- Team leader of the Consultancy Group requested by Dam Implementation Unit (DIU) to evaluate and recommend solutions for problems associated with the Water Resources and Irrigation Network and Systems of the New Merrowi Air port and the Dam's Resident ional Town --- Sept-2005.

- Team leader of the consultancy group formed by the University of Khartoum Consultancy Corporation (UKCC) to prepare design, layouts and implement 45 (Center Pivot Sprinkler Irrigation Systems) in three different resettlement irrigated agriculture projects associated with the Implementation of Merowe Dam by the Dam Implementation Unit (DIU) since 2005, to date.

- Member of a Consultancy Team requested by the Associated Consultants and Partners Consulting Engineers Ltd. to design, establish and follow the operation of 40 Centre Pivot Sprinkler Irrigation Systems for the Athara Forage and Marketing Agricultural Project supervised by the Arab Authority for Agricultural Investment and Development(AAAID), League of Arab States (L.A.S), Khartoum, 2006

- Member of a Consultancy Team requested by Hamdi Consulting

Group to evaluate the Assets of the 30 thousand feddans -Tala agricultural

Scheme in Shendi area irrigated by Centre Pivots 2006.

- Member of the Consultancy Group requested by the Engineering Development (Engi. Dev)to present a feasibility study on the implementation of Center Pivot Irrigation System for the 6000 feddans- Almac Ageeb Agric. Project, Shendi area- -River Nile State, 2006.

- Team Leader of the consultancy group to study, evaluate and establish irrigation systems (mainly center pivots) for ELSilaim- Basin, Dongola, Northern State 2007

- Member of the Consultancy Group formed by the University of Khartoum Consultancy Corporation (UKCC) to study the Technical and Economical Feasibilities of the 40.000 Feddans Great Kanar Agricultural Project – Northern State Sudan, 2007.

- Member of the Technical Committee requested by IFAD to advise on appropriate specification for agricultural machineries and equipment for Range Land Farming in Kordofan State, 2007.

- Team leader of the Consultancy Group formed by the University of Khartoum Consultancy Corporation (UKCC) to establish 20 Center Pivot Irrigation Systems (total area 3000 feddans) in Kehaila east Resettlement Irrigation project of the Dam Implementation Unit (DIU) since 2008.

- Team leader of the Consultancy Group formed by the University of Khartoum Consultancy Corporation (UKCC) to establish Fish Farming Project (total area 56 feddans) in New Ammri Resettlement Agricultural Scheme of the Dam Implementation Unit (DIU) since 2008.

- Team leader for prepare a feasibility study for a 200 fed. Center Pivot Irrigation Scheme of the Saudi Foras for Development Company, 2009.

- Worked as a Consultant for the High Council for Revival to modify and/or modernize the On - Farm Irrigation Systems at Large Scale- since 2008.

(L) Assessment of Various Academic Activities:

(i) Assessment of Scientific Papers Submitted for Publication by the following Journals:

1. University of Khartoum Journal of Agricultural Science.
2. Sudan Journal of Scientific Research, Agricultural Research Center.
3. Journal of Science & Technology, Sudan University of Science & Technology.
4. Sudan Journal of Agricultural Research, Agricultural Research Corporation (ARC).
5. Journal of Agricultural Mechanization in Asia, Africa & Latin America (AMA), Japan.
6. Juba University Journal of Arts & Science.
7. Gezira Journal of Agricultural Science.
8. Sinnar Journal of Agricultural Science.
9. Sudanese Standards & Metrology Organization (SSMO) Journal.

(ii) Assessor of Research Projects Submitted for funding by King A/AZIZ City for Science & Technology (KACST), Saudi Arabia.

(iii) Assessed Scientific Activities Submitted for Promotion in the following institutions :

- Agricultural Resrarch Corporation.
- Agricultural Research Centre.
- Ahfad University.

Published Work

- **Saeed, A.B. (1982)** The Impact of Environment on the selection of a water application method *Sudan Journal of Scientific Research - El-Buhuth* –National Council for Research (NCR) Sudan. 1982 Issue.
- **Saeed, A.B. (1982)** The Use of Oil Bubbles for Estimating Flow Rates in Open Channels - *J. of Agric. Mechanization in Asia, Africa and Latin America (AMA)* Vol. XIII, No. 2 Spring, 1982, Japan.
- **Saeed, A.B. (1986)** Irrigation Methods and their impact on growing date palms, *Alkhaffi Journal No. 12*, Special edition on the 2nd International Symposium on Date Palm, K.F.U. March 1986.
- **Saeed, A.B. (1987)** The LASER a new technology for surveying and land leveling. A paper (in Arabic) published by the *Saudi Agric. Journal*, March 1987.
- **Saeed, A.B;** H.A. Etewy and O.S. Aly Hassan, **(1990)** Watering Requirement and Scheduling of Date Palm. *J. of Agric. Mechanization in Asia, Africa and Latin America (AMA)*, Vol. 21 No 4, 1990, Japan.

- *Ahmed, M.H.; **A.B. Saeed**; A.H. Ahmed and I. Haffar, (1999) Tractor Repair and Maintenance Costs in Sudan - I: Development of a standard Model, *J. of Agric. Mechanization in Asia, Africa and Latin America (AMA)* Vol. 30 No. 2, spring 1999 Japan.

- * Ahmed, M.H.; **A.B. Saeed**, A.H. Ahmed I. Haffar, (1999) Tractor Repair and Maintenance Costs in Sudan - II: A Comparative Study among Major Agricultural Schemes *J. of Agric. Mechanization in Asia, Africa and Latin America. (AMA)* Vol. 30 No. 2, spring 1999 Japan.

- *Elgamri, T; **A.B. Saeed**, (1999) Low-Cost Water Conveyance Lining, *Waterlines Journal, Intermediate Technology* Publication, U.K. 1999.

- *Elgamri, T; **A.B. Saeed**, (2000) Use of Khafgi for Lining Irrig. Canals, *U. of K. J. Agric. Sci.* 8(2), 2000.

- *Elgamri, T; **A.B. Saeed**, and E.A. Adam, (2002) Ferrocement for lining Irrig. Canals. *The Sudan Journal of Scientific Research* Vol. (8) No. (1) March 2002.

- ***Saeed, A.B.** and H.Y. Eissa, (2002) Influence of Tillage on some Properties of Heavy Cracking Clay Soils and Sorghum Yield in the Mechanized Rainfed Agric. *U. of K. J. Agric. Sci.* 10(2) 2002.

- El-Gamri, T., **A. B. Saeed** & A. K. A/Allah (2003) Influence of Climate Change in the Range Lands of the Sudan and Possible Mitigation Measure, 26th July – 1st August (2003), Durban, South Africa, Congress Organized by S. B. Conferemce.

- ***Saeed, A.B.**; and H.Y Eissa, (2004) Mechanical Harvesting of a Local Sorghum Variety (Korakolo) using the Italian Aggrieve Header on a Class Combine in the Mechanized Rainfed Agriculture , *Juba University J. of Arts and Science* Vol. 3. Aug 2004.

- ***Saeed, A.B.** (2006) A Survey Study on Irrigated Farimung in Sudan with Reference to Three Large-scale Schemes. African Universities Congress, Interaction and interrelation in Africa, Jan (2006), International University of Africa, Khartoum – Sudan.

- *Ahmed, N.M; and **A.B. Saeed**, (2006) Effect of Three Tillage Systems and Two Irrigation Amounts on Maize (*Zea mays* L.) production, *U. of K. J. Agric. Sci.* 14 (3) 392-402, 2006

- *Ali, M.S.M; M.A .Mustafa and **A.B Saeed** (2006) Spatial and Temporal Variations of Water Intake and Surface Runoff from the Long-Furrow Irrigation System in Kenana Sugar Cane Plantation, *U. of K. J. of Agric Sci.* 14(1) , 1-22 (2006)

- ***Saeed, A.B.**, and H.Y. Eissa, (2006) Observation of Minimum Tillage for Mechanized Rainfed Sorghum Production in Agadi, Sudan. *Sudan J. of Scientific Research* Vol, 10 (2) 19 - 29 Dec 2006

- * Elgamri, T, **A.B. Saeed** & A.K. A/Allah, (2006) Use of ENSO Event for Predicting Wadi Discharges in Central Sudan. *Sudan J. of Scientific Research* Vol, 10 (2) 31- 43 Dec 2006.

- *Ali, M.S.M.; M.A. Mustafa and **A.B. Saeed**, (2007) Assessment of Irrigation Scheduling in Kenana Sugar Scheme *U. of K.J.of Agric Sci* 15 (2) 244-258, 2007.

- *Elgamri, T; **A.B. Saeed** & A.K. A/Allah, (2007) On the Relation between Rainfall Prediction in the Sudan and the ENSO Event *U. of K.J. Agric Sci*, 15 (1) 23- 38, 2007

- *A/Alla, O .A; M. H. Dahab and **A.B. Saeed**, (2007) Effect of soil Surface Condition, Sowing Depth and Amount of Simulated Rainfall on Water Concentration and Wheat Growth in a Glasshouse *U. of K.J. Agric Sci*, 15 (1) 2007

- *Gidoen C.; **A. B. Saeed** and H. I. Mohamed, (2007) Evaluation of Hydraulic Performance of Major Canal in the Rahad Agricultural Scheme *J. of Science and Technology*, Sudan University of Science and Technology, Vol 8 (1). 2007.

- ***Saeed A.B.** and H.Y. Eissa (2007) Effect of Some Tillage and Seeding Methods on the Yield of Sorghum under Mechanized Rainfed Conditions, *Sudan.j.agric.res.*(2007),8,89-96 Published by the Agric. Research Corporation (ARC), Wad madani, Sudan.

- *Widaa, A.M.E. and **A.B.Saeed**; (2008) Impact of Using Treated Waste Water for Irrigation on Soil Chemical Properties, Plant growth and Forage Yield *U of K.J Agric Sci* 16 (1), 2008.

- ***Saeed, A.B.**, A.A. Ahmed (2008) Evaluation and Modification of a Japanese (Kubota) Rice Transplanter under Sudan Conditions, *Sudan Journal of Standard and Metrology* (Sud. J. Stnds. Metrol.), Vol. 2(1-2), (2008).

- *Mohamed, A. A; **A.B. Saeed** and A. E. Mohamed, (2009) Effect of Surface - Applied Millet Stalk Mulch on Soil Bulk Density and Total Porosity, *J. of Science and Technology*, Sudan University of Science and Technology, Vol. 10 (1)Jan 2009.

- * Ali, M.S.M.; **A.B. Saeed** and M. A. Mustafa , (2009) Appraisal of the Spatial and Temporal Variations of the Soil Moisture Profile in the long furrow irrigation system in Kenana Sugarcane plantation, *J. of Science and Technology*, Sudan University of Science and Technology, Vol. 10 (1)Jan 2009.

- * Ramlawi, H.R; **A.B. Saeed** and H. I. Mohamed, (2009) Effect of Soil Surface Farmation on Yield and Yield Components of Maize (*Zea mays* L) in N. Gedarif State *J. of Science and Technology*, Sudan University of Science and Technology, Vol. 10 (1)Jan 2009.

- *Araki, G., **A.B. Saeed** and H. I. Mohamed (2009) Sprinkler lateral Design. The scientific journal of Alzaïem Al azhari Unoversity. Vol. 6(1), Jan. (2009).

- *Araki, G., **A.B. Saeed** and H.I Mohmed (2009) Portable Sprinkler Irrigation System Design Prosedure. The scientific journal of Alzaïem Al azhari Unoversity. Vol. 6(1), Jan. (2009).

Other Publications

- Evaluation of the Long Furrow Irrigation Method under Shambat conditions, B.Sc. (Hons) Dissertation, Faculty of Agric. - University of Khartoum, April 1968.

- A Technical note on the Measurement of Flow in Small Irrigation Channels in the Sudan, Agricultural Research Corporation (ARC), (G.R.S.) Wad Medani, 1968.
- Some Trials on Nitrogenous Liquid Fertilizer applications on Acala Cotton under Guneid conditions, Tech. Report, Agricultural Research Corporation (ARC), (G.R.S.) Wad Medani - Sudan 1968/69.
- Mechanical Picking of Acala Cotton under Guneid conditions Technical Report, Agricultural Research Corporation (ARC), (G.R.S.) Wad-Medani - Sudan 1968/69.
- An Investigation into the Irrigation Systems of the University of Khartoum Top Farm, Tech. Report, Faculty of Agric University of Khartoum, July 1980.
- Evaluation of Agricultural Potential in Lower Atbara River, Sudan, a paper (in Arabic) presented to the Arab Organization for Agricultural Development (AOAD) Khartoum, July 1980.
- **Saeed, A.B.** (a member of an expert team), A study on the Design of the Irrigation and Drainage Systems of Abu Samra Sheep Farm in the State of Qatar, submitted to the Arab Organization for Agric. Development (AOAD), Oct. 1982.
- **Saeed, A.B.** Irrigation Practices in the Sudan. Chap. V of the Natural Resources of the Sudan: A Reference Book published by the National Council for Research (NCR) - Sudan, Sept. 1983.
- Abdalla, A.M; **A.B. Saeed**, Wind Powered Bubbler Irrigation System for Small orchards in Northern Sudan, a Tech. Report submitted to the Islamic Bank - Sudan, April 1988.
- ***Saeed, A.B.**, Leader of the consultancy expert team appointed by AOAD to prepare a comprehensive study on the Improvement of the Use of Agrometeorology in Irrigation Management, AOAD Khartoum 1997.
- ***Saeed, A.B.**, Expert team leader who prepared a comprehensive study on the Technical and Economical Assessment of Supplementary irrigation in Rainfed Agric. in the Arab Countries, AOAD, Khartoum, 1998.
- ***Saeed, A.B.**, Expert team leader who prepared a comprehensive study on the Improvement of On-Farm Irrigation Efficiency in the Arab Region, AOAD, Khartoum, 1998.
- ***Saeed, A.B.**, Expert team Leader who prepared a comprehensive study on the Expansion and Improvement of the use of Modern Irrigation Technologies in the Arab Region, AOAD, Khartoum, 1998.
- ***Elgamri, T; A.B. Saeed**, Development and Evaluation of Low-Cost Building Materials for Canal Lining - Experience of Rawakeeb Dryland Station (RRS) Environment and Natural Resource Research. Institute, Ann. Sc. Report 1998 ENRRI, NCR.

- * **Saeed, A.B.**, Assessment of Reusing Wastewater for Agricultural Activities in Khartoum Estate, Tech. Report Submitted to the State Ministry of Agric., Animal Res. & Irrigation, Khartoum, Dec. 2003.

(O) Papers Accepted for Publication:

- Use of Global Sea surface Temperature (SSTs) in Rainfall Prediction in Dry Sudan, Sudan J. Des. Res. UNESCO Chair of Desertification Studies, University of Khartoum.
- Impact of water harvesting techniques and supplementary irrigation on the growth and production of fodder crop sorghum bicolor, Symposium on Rain Water Harvesting and Impact on the Arab World Agriculture, Institute of Irrigation and Water Management, University of Gezira June 2008
- Harvesting of Treated Waste Water for agricultural activities, Symposium on Rain Water Harvesting and Impact on the Arab World Agriculture, Institute of Irrigation and Water Management, University of Gezira June 2008
- Predicting the Variable Rainfall of the Dry Region of the Sudan, International Conference, Nile Basin Development Forum Nov 2008
- Efficient Use and Appropriate Management of Irrigation Water in Sudan, International Conference, Nile Basin Development Forum Nov 2008.
- **Saeed, A.B.** and A.E. Mohamed (2008) Sustainable Use of Water Resources in the Dry Lands of Sudan, Proceeding of the National Symposium of Sustainable Use of the Dry Lands in Sudan on the Occasion of the World Day of Desertification 17-18 June 2008. Khartoum, Sudan.
- **Saeed, A.B.** (2008) Surface Irrigation System Improvement and Management, Journal of Agricultural Investment (JAI), Arab Authority for Agricultural Investment and Development (AAAID).
- Mazahreh, N., **A.B Saeed** And A.M El-Gindy, (2008) Pioneer Applications for improving the Existing Irrigation Systems in Arab Region, Journal of Agricultural Investment (JAI), Arab Authority for Agricultural Investment and Development (AAAID).
- Mohamed, Z.Y., **A.B. Saeed**, T. EL-Gamri(2009) Rain Water Harvesting and Conjunctive Use of Water Resources Under Dry Land Conditions.
- *Elgamri, T; **A.B. Saeed** & A.K. A/Allah Rainfall of the Sudan Characteristics & Prediction (Accepted), *Sudan Journal of Basic Science (SJBS)*, Vol (6) series (G).

(P) On going research Activities:

- Rainwater Harvesting and Conjunctive Use of Water Resources under Dry Land Condition.
- Effect of Different Cropping systems on Organic Matter levels on Rain Fed and Irrigated Agriculture.
- Reuse of Treated Waste Water for Agricultural Activities.

-Modeling, Designing, Application & Evaluation of Modern Irrigation Systems (Drip, Bubbler, Sprinkler, Floppy & Center Pivot) for production of Field crops, Horticultural crops (viz Date Palm, Grapes) & ornamentals.

- Improving Conventional Irrigation Methods through Precision leveling using laser technology, Hydro flumes and Automation.

(R) Books under publication:

مسح و تشكيل وتنمية المزرعة *

مبادئ هندسة الري و الصرف الزراعي *

(S) Contributed in translating:

Design and operation of Farm Irrigation system

An ASAE: Monograph 1983

Edited by M.E. Hansen