

## **Personal Information**

Nationality: Sudanese

Date of Birth: March 1954

Social Status: Married with four children

Academic status: Professor

Specialization: Plant Ecology

Present Address: University of Khartoum, Biology Department, Faculty of

Education, P.O. Box 321

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## **Academic Qualifications**

**I - B.Ed. ( Science ) in Biology, Chemistry and Education ( Division I ), Faculty of Education, University of Khartoum, April 1978.**

**II- Science Teaching Diploma, American University of Beirut (AUB), Lebanon, June 1981.**

**III- M.Sc. in Biology ( Plant Ecology ), American University of Beirut (AUB), Lebanon, June 1982.**

**IV- Ph.D. in Biological Sciences ( Plant Ecology ), University of Exeter, England, July 1985.**

## **Awards**

1. The University of Khartoum Prize for the best student in the final B.Ed. (Biology, Chemistry and Education) in April 1978.
2. The University of Khartoum Prize for the best result in Education, in the final B.Ed. (Biology, Chemistry and Education) in April 1978.
3. Kingdom of Saudi Arabia, King Faisal University, Dammam College of Education Prize for the distinguished staff member in the Biology Department for the academic year 2005/2006.

## **Employment Record**

- The University of Khartoum, Faculty of Education: 1985-1993.
- The University of Khartoum, Institute of Extra Mural Studies ( Now Faculty of Technological and Developmental Studies ): 1994-1999.
- The University of Khartoum, Faculty of Technological and Developmental Studies: 1999-2001.
- King Faisal University, Dammam College of Education, Kingdom of Saudi Arabia: 2001- 2010.
- The University of Khartoum, Faculty of Education: 2010- till now.

## **Teaching Experience**

1. I have taught the following courses in Khartoum University and other Universities:
  1. Plant Ecology
  2. Plant Communities
  3. Ecosystem Dynamics
  4. Plant Morphology
  5. Plant Anatomy
  6. Plant Physiology
  7. Plant Taxonomy
  8. Systematic Botany
  9. Cell Biology and Genetics
  10. Biostatistics

The teaching methods of the above mentioned courses include: lecturing, practical work, demonstrations, seminars and tutorials. In addition to that, the practical side of the "plant ecology" course includes field trips and visits to several areas of ecological interest like: Meteorological stations, water treatment plants, Sewage treatment plants, botanical gardens and natural plant communities.

2. Some of the above mentioned courses were converted to electronic courses using Microsoft Power Point program.
3. Teaching Plant Ecology courses for students of Juba University, Darfur University Omdurman Islamic University and Ahfad University for Girls.
4. Visiting Professorat the University of Qatar, for one semester, from March to June 1997; where I taught Plant Ecology courses.

## **Administrative Roles**

- Secretary of the Faculty of Education Academic Board: 85-1988.
- Head of Biology Department, Faculty of Education: 89-1990.
- Deputy Chief Editor of "Majalat Kuliat Attarbia": 89-1990.
- Secretary General of the Higher Commission for Arabicization, Ministry of Higher Education and Scientific Research: 1990-1991.
- Head Biology Department, Faculty of Education, for a second term: 91-1993.
- Deputy Dean, Faculty of Education: 93-1994.
- Director of the Institute of Extra Mural Studies ( Now Faculty of Technological and Developmental Studies ): 1994-1999.
- Dean of the Faculty of Technological and Developmental Studies, University of Khartoum: 1999-2001.

## **Other Responsibilities**

1. Member of the Faculty of Education Academic Board: 85-1994.
2. Member of the Faculty of Education Research Board: 89-1994.
3. Member of the University of Khartoum Senate: 89-2001.
4. Member of Graduate College Board: 94-2001.
5. Member of the University of Khartoum Senate Advisory Committee for academic affairs: 94-2001.
6. Member of the Academic Board of the Institute of Environmental Studies, University of Khartoum: 87-1993.
7. Member of the committee formed by the Khartoum University Senate to review the mathematics syllabus of the Faculty of Education, University of Khartoum. The reviewed syllabus was approved by the senate in Jan.1990.
8. Member of the committee for designing curricula and internal academic regulations for the Faculty of Education, Wadi-Elneil University.
9. Member of the committee for designing curricula and internal academic regulations for the Faculty of Education, Darfur University.
1. Member of the committee for establishing a Faculty of Education in Sudan University for Science and Technology.
1. Member of the board of the High Commission for Arabicization, Ministry of Higher Education and Scientific Research: 1990-1991.
  
2. Member of the Distance Education Committee, Ministry of Higher Education and Scientific Research: 1999-2001.
3. Member of the committee formed by the Higher Commission for Arabicization for setting internal regulations for writing Arabic Textbooks and References for the Institutes of Higher Education in Sudan.

## **Conferences, Workshops, Symposia, and Training Courses:**

### **1. In the field of Ecology:**

- Symposium on "**Environmental issues of international concern**" organized by Dammam Teachers' College, King Faisal University, 13-17/1/ **1428**. ( See the attached Certificate).
- The Third Autumn Course on **Mathematical Ecology**, organized by the International Center for Theoretical Physics (ICTP) and the International Center for Science (ICS). International Center for Theoretical Physics, Trieste, Italy, 29 Oct. – 16 Nov. **1990**. ( See the attached Certificate).
- The International conference on **Plant Growth, Drought and Salinity in the Arab Region**, Cairo University, Egypt, 3-7 Dec.**1988**.

### **1. In the field of developing teaching and research skills:**

- Training course on " **Building quizzes and Exams Using WebCT**" organized by Deanship of Higher Education Development, King Faisal University, 23-25/2/ **1429**. ( See the attached Certificate).
- Training course on " **Using the Intelligent Board in Teaching**", organized by Center of Training and Community Development, Dammam Teachers' College, King Faisal University, 19-22 June **2007**. Using the Intelligent Board requires mastery of Microsoft Office Word, Microsoft Excel and Microsoft Power Point. (See the attached Certificate).
- Training course on " **Designing a Web Site**" organized by Center of Training and Community Development, Dammam Teachers' College, King Faisal University, 10-13/1/ **1429**. ( See the attached Certificate).
- Training course on " **Internet basic studies**" organized by University of Khartoum, Computer Center, From 30/10/ 1999 to 6/11/**1999**. ( See the attached Certificate).

### **C. In the field of developing Administrative Skills:**

- Training course on "**Development of Communication Administrative Skills**", organized by Dammam Teachers' College, King Faisal University, 22-25 June **2007**. ( See the attached Certificate).
- Training course on "**Problem Analysis and Decision Tacking Process**" organized by Center of Training and Community Development, Dammam Teachers' College, King Faisal University, 1-3 July **2007**. ( See the attached Certificate).
- Training course on "**Electronic Mail using Microsoft Office Outlook**" organized by Center of Training and Community Development, Dammam Teachers' College, King Faisal University, 11-14/1/ **1429**. ( See the attached Certificate).

### **D. In the field of Community Development:**

- Head of the steering committee of the Thirteenth Arkaweeet Conference: "**Sudan and its Neighboring Countries: Factors of Stability and Development**", organized by the Faculty of Technological and Developmental Studies, University of Khartoum in collaboration with the Ministry of Foreign Affairs. Sharijah Hall, University of Khartoum, 12-15 Feb. **2000**.
- Deputy head of the steering committee of the Twelfth Arkaweeet Conference on "**Tourism in the Sudan**", organized by the Institute of Extra Mural Studies, University of Khartoum in collaboration with the Ministry of Environment and Tourism. Arkaweeet Hotel, Red Sea State, 12-15 Dec. **1996**.
- The "**Fourth International Conference of Islamic World Council on Disability and Rehabilitation**". Khartoum, 10-12 Feb. **2001**. Where I presented a paper on "Disability caused by environmental pollution and its Prevention". The abstract was published in: *Saudi Journal of disability and rehabilitation*, 7 (1): (2001). E 46.

#### **E. In the field of Arabicization:**

- Member of the steering committee and convener of Arabicization Symposium: "**The Discussion Group for Teaching Scientific Subjects in the Arabic Language in the Institutes of Higher Education in Sudan**". The Symposium was organized by the Ministry of Higher Education and Scientific Research. Sharijah Hall, University of Khartoum, 22-26 July **1990**.
- The "**Fourth Conference on Arabicization in Sudan Universities**", organized by Juba University. Sharijah Hall, University of Khartoum, 21-23 April **1996**. ( See the attached acknowledgment ).

#### **F. In the field of Education:**

- Workshop on "**Management and Administration for Distance and Open Learning**", organized by Sudan Open Learning Organization (SOLO) in Collaboration with International Extension College (IEC). SOLO Meeting Hall, Khartoum, 19-29 May **1999**. (See attached Certificate).
- Workshop on "**The Investment of Technical Institutes in Community Development**", organized by Arab Union for Technical Education in Collaboration with the Ministry of Higher Education and Scientific Research ( Palestinian National Authority) at Oman, Jordan, from 6-8 March **1999**. ( See attached Certificate).
- The "**Summer Literacy Training Program**" (SLTP), organized by International Literacy Institute (ILI) in Collaboration with UNESCO. University of Pennsylvania, Graduate School of Education in Philadelphia, USA, from July 1-31, **1997**. ( See attached Certificate).
- The conference on "**The Problems of the General Education in Sudan**", organized by the Faculty of Education, University of Khartoum in collaboration with Sudan Ministry of Education. Sharijah Hall, University of Khartoum, 22-26 Feb. **1987**.

## Contributions

### **Contributions towards the Development of the Institute of Extra Mural Studies (Now Faculty of Technological and Developmental Studies)**

The following achievements were made during my tenure as a director of the Institute of Extra Mural Studies in the period from 1994-1999:

A road (120x5 m) to the north of the Extra Mural Studies building was officially added to it. This was greatly appreciated by the University Administration ( see attached letter).

1. Three lecture rooms were built (capacity 80-120 students).
2. A library for the students was built (capacity 110 students).
3. A two-story building for administration purposes has been established.
4. The above buildings were supplied with all necessary equipment i.e. furniture, computers, photocopy machines and audio-visual aids.

During my tenure as a director of the Institute of Extra Mural Studies, and a dean of the Faculty of Technological and Developmental Studies, the University of Khartoum witnessed a lot of cultural activities such as:

1. Public lectures and symposia.
2. Workshops in the field of distance education.
3. The Twelfth Arkawet Conference on "**Tourism in the Sudan**", organized by the Institute of Extra Mural Studies, University of Khartoum in collaboration with the Ministry of Environment and Tourism. Arkawet Hotel, Red Sea State, 12-15 Dec. **1996**.
4. The Thirteenth Arkawet Conference on "**Sudan and its Neighboring Countries: Factors of Stability and Development**", organized by the Faculty of Technological and Developmental Studies, University of Khartoum in collaboration with the Ministry of Foreign Affairs. Sharjah Hall, University of Khartoum, 12-15 Feb. **2000**.

During my tenure as a dean of the Faculty of Technological and Developmental Studies, most- if not all - of the intermediate diploma programmes were approved by Khartoum University Senate, in the period from 99-2001.

## **Supervision of Postgraduate studies**

Acted as main supervisor for a number of M.Sc. students in the field of Plant Ecology, particularly in the following research lines:

- The effects of mineral nutrients on determining plant species composition and abundance.
- The effects of Industrial chemical effluents on plant growth and distribution.

Acted as an external and internal examiner for a number of M.Sc. and Ph.D. Theses. Participated in setting the curricula of an advanced diploma, M.Sc., and Ph.D programs for the Institute of Environmental Studies, University of Khartoum. Now I'm acting as a supervisor for a Ph.D. student at King Faisal University, Kingdom of Saudi Arabia. THESIS TITLE: "The effects of mineral nutrient factors, heavy metals and salinity on distribution of wild plants at Jubail wildlife sanctuary in the eastern region of Saudi Arabia".

## **Publications**

### **II- Published Papers for Professor. Altayeb A. Hayati**

**3-Hayati, A. A. (2008).** The distribution and coexistence of some wild plants in relation to mineral nutrient availability in a high sodium polluted site in central Sudan. *Pakistan Journal of Biological Sciences*, **11** (3): 448-452.

**4-Hayati, A. A. (2007).** Responses of *Cassia senna* (L.) to added nitrogen, phosphorus and potassium in the semi-arid zone of central Sudan.

*International Journal of Botany*, **3**(2): 214-217.

**5-Hayati, A. A. (2007).** Responses of *Cassia senna* ( L. ) and *Cassia italica* ( Mill. ) to different levels of manganese. *Saudi Journal of Biological Sciences*, **14**(1): 109-114.

**6-Hayati, A. A. (2007).** The effects of salinity on growth and distribution of four freshwater diatom species. *Saudi Journal of Biological Sciences*, **14**(2): 237-

**7 -Hayati, A. A.** and Abd-Elrhman, F. M. ( **2006** ). The possible effects of some mineral nutrients and industrial chemical effluents on wild plants in central Sudan. *Qatar University Science Journal ( QUSJ)*, **26**: 59-70.

**8 -Hayati, A. A. ( 2005 ).** Relations between soil nutrients and ion uptake by *Cassia senna* ( L.) and *Calotropis procera* ( Ait.f.) at three sites in central Sudan. *J. Union Arab Biol.* Cairo, **16**: 49-61.

**9 -Hayati, A. A.** and Squires, L. E. ( **2005** ). The effects of phosphorus and nitrogen onthe growth of three freshwater diatom species. *J. Union Arab Biol.* Cairo, **16**: 81-94.

**10- Hayati, A.A.** and Yahia, D. A. (2002). Responses of *Calotropis procera* and *Cassia senna* to some soil factors in central Sudan. *U. of K. J. Agric. Sci.* **(10)(1)**: 27-39.

**11- Hayati, A. A. (2001).** The effects of environmental awareness in legislation in the field of agricultural development in the Sudan. *Journal of Agriculture and Development in the Arab World (AOAD)*, **3**: 45-49.

**12- Hayati, A. A. (2001).**Disability caused by environmental pollution and its prevention. *Saudi Journal of disability and rehabilitation*, **7** (1): E 46.

**13- Hayati, A. A. (2000).** Climate change and the phenomenon of drought and desertification. *Journal of Agriculture and Development in the Arab World (AOAD)*, **4**: 42-51.

**14- Hayati, A. A. ( 2000).** The compulsory immigration of African Sahel- Zone population to the South. *Dirasat Ifriqiyya*, **24**: 37-44.

**15- Hayati, A. A. (1999).** The deterioration of poor savannah ecosystem in Sudan and some sahel-zone African countries. *Journal of Environment*, Ministry of Environment and Tourism \ Higher Council of Environment and Natural Resources (Sudan), **1 (2)**: 43-45.

**16- Hayati, A. A. (1998).** Aspects of Environment and Development in the Sudan. *Dirrasat Estratigea*, **12** : 3- 20.

**17- Hayati, A. A. and Proctor, M.C.F. (1991).** Limiting nutrients in acid mire vegetation: peat and plant analysis and experiments on plant responses to added nutrients. *Journal of Ecology (England)*,**79**: 75-95.

**18- Hayati, A. A. (1991).** The biosphere as a complete ecosystem. *Nile Geographical Journal* ( Sudan). **1**: 39-44.

**19- Hayati, A. A. and Proctor, M.C.F.(1990).** Plant distribution in relation to mineral nutrient availability and uptake on a wet-heath site in south-west England. *Journal of Ecology (England)*,**78**: 134-151.

**20- Hayati, A. A. (1990).** Nature of Scientific Investigation. *Majallat Kuliat al-tarbia* (University of Khartoum, Sudan), **1**: 13-25.

**III- Studies published by AOAD, where I acted as an external member of the study team (external expert ) in the field of Plant Ecology.**

**21- Arab Organization for Agricultural Development (AOAD), ( 1997).** *Introducing Environmental Concepts in the Curricula of Agricultural Education in the Arab*

*World.* Khartoum, Sudan. ( The team of Experts include: **Hayati, A. A.**, Tagelseed, M., Waheed, Elhbeeb, A. and Elhassan, A.).

**22-** Arab Organization for Agricultural Development (AOAD), (2001). *The role of NGO's and local communities in conserving biodiversity in the Arab World.* Khartoum, Sudan. ( The team of Experts include: Gammer-Eldeen, M., Zein-Elabdeen, M., **Hayati, A. A.**, Elhbeeb, A. and Shaboor A.).

#### **1V- Papers under preparation:**

**23- Hayati, A. A.** Responses of *Cassia senna* ( L. ) and *Cassia italica* ( Mill. ) to different levels of ferrous and ferric ions.

**24- Hayati, A. A.** The phenomenon of global warming and the role of world wide environmental protocols in controlling greenhouse gasses emissions.

#### **V - Published Books:**

**25- Hayati, A. A. (2007).** *Basic Ecology.* First Edition, Dammam, Saudi Arabia.

**26- Hayati, A. A.(2006).** *The Ecosystem.* First Edition, Sudan Open University, Khartoum, Sudan.

**27- Hayati, A. A. and Al-Zawadie, A. M. (2005).** *Essentials of Plant Physiology.* First Edition, Dammam, Saudi Arabia.

**28- Alrabaa, F. M.A. and Hayati, A. A. (2002).** *Biology: Environmental Approach.* National Center for Curricula and Educational Research, Bachat Al-Rida, Sudan.

**29- Hayati, A. A. (1998).** *Environmental Resources and Development in the Sudan.* First Edition, Center of Strategic Studies, Khartoum, Sudan.

**30- Hayati, A. A. (1996).** *Introduction to Plant Ecology.* Second Edition, Institute of Environmental Studies, University of Khartoum, Sudan.

**31- Hayati, A.A.(1995).** *Introduction to the Science of Genetics*. First Edition, Al-Dar Al-Sudania for Books, Sudan.

**32- Hayati, A. A. (1989).** *Introduction to Plant Ecology*. First Edition, Institute of Environmental Studies, University of Khartoum, Sudan.

**33- Hayati, A.A.(1989).** *Morphology and Anatomy of Plants*. First Edition, Khartoum University Press, Sudan.

**34- Hayati, A. A.** *Basic Ecology*. **Second Edition**, Dammam, Saudi Arabia.  
( in press ).

**35- Hayati, A. A.** and Al-Zawadie, A. M. *Essentials of Plant Physiology*.  
**second Edition**, Dammam, Saudi Arabia ( in press ).

**36- Hayati, A. A.** *Systematic Botany*. (Under preparation).

#### **V - Articles in other fields:**

**37- Hayati, A.A. (2007).** The southern Sudan problem. [www.Alsahafa.info/index.php](http://www.Alsahafa.info/index.php)

**38- Hayati, A. A. (2002).** The future of the agricultural sector in Sudan and the threat of globalization. *Al-rai Al-aam*, 1778: p 7.

**39- Hayati, A. A. (2001).** River Nile: Geographical, historical, developmental and Geopolitical dimensions. In: *Sudan and its Neighboring Countries: Factors of Stability and Development*. **Hayati, A. A. (ed.)**, U. of K. Press, p. 197-219.

**40- Hayati, A.A. (2000).** Managing and organizing of distance education programmes in the Institutes of Higher Education in Sudan. Presented to the committee of distance education, Ministry of Higher Education and Scientific Research.

**41- Hayati, A. A. (2000).** How to utilize Sudan tourism resources in a sustainable

manner?. In: *Tourism in Khartoum: A Guide to tourist*. Published by the Ministry of Environment and Tourism, Khartoum State.

**42- Hayati, A.A. (1999).** Technical education in Sudan: Future perspective. *Dirrasat Estratigea*, 18: 17-26.

**43- Hayati, A. A. (1997).** Evaluation of Arabicization process in the Institutions of Higher Education in Sudan. *Dirrasat Estratigea*, 8: 83-90.

**44- Hayati, A. A. (1997).** The effects of economic development in tourism industry in Sudan. In: *Tourism in Sudan*. **Hayati, A.A. (ed.)**, Khartoum University Press, Sudan. p. 29-39.

**45- Hayati, A. A. (1996).** Gongoli canal project: Ecological, economic and social analysis. *Al-ingaz Newspaper*, Khartoum.

**46- Hayati, A. A. and Al-Hassan, O. M. (1995).** Practice of social work in Sudan. *Altaseel*: 3: 83-88.

**47- Hayati, A .A. (1991).** Aspects of Arabicization in the Institutes of Higher  
1. *Majallat Kuliat al-tarbia* (University of Khartoum, Sudan), 2: 17-29.

**48- Hayati, A. A. (1988).** Khartoum and air currents. *Elisboo Newspaper*, Khartoum.

**49- Hayati, A. A.** Grazing resources and tribal conflicts on western Sudan. (In press).

#### **VI - Published Books in Other Fields:**

**50- Hayati, A.A. (ed.) (2000).** *Sudan and its Neighboring Countries: Factors of Stability and Development*, Khartoum University Press.

**51- Hayati, A.A. (ed.) (1997).** *Tourism in Sudan*. Khartoum University Press, Sudan.

**52- Hayati, A.A. (1995).** *Guide to Voluntary Organizations in the Sudan*. Khartoum University Press, Sudan

**53- Hayati, A.A.** and Ahmad, M. M. (1993). *Daiwan Elshiekh Hayati*. First Edition, Khartoum University Press, Sudan.