

## CURRICULUM VITAE

### Abdelazim Yassin Abdelgadir, Ph.D.



#### PERSONAL DATA

Name: Abdelazim Yassin Abdelgadir  
Date of Birth: January 1, 1955  
Place of Birth: Sinnar Town  
Nationality: Sudanese  
Marital Status: Married with 5 children  
Languages: Arabic (First language), English  
Address: *Department of Forest Products and Industries, Faculty of Forestry, University of Khartoum, Shambat, Postal Code 13314, Sudan*

#### QUALIFICATIONS

1991 **Ph.D.** in Forest Products (Minor in Statistics), *Oregon State University, Corvallis, Oregon, USA*  
1984 **M.Sc.** in Forestry (Special field: Forest Utilization in Tropical Countries), *Technische Universität Dresden, Dresden, Germany*  
1981 **Certificate** in Logging and Log Transport, *Technische Universität Dresden, Germany*  
1979 **B.Sc. (Honours)** in Forestry, *University of Khartoum, Khartoum, Sudan*

Contributed to Sudan's Greenhouse Gases Inventory, Sudan's First Communication Report.

National Consultant, Sudan's Greenhouse Gases Mitigation Study, Second National Communication Project; under the United Nations Framework Convention on Climate Change (UNFCCC).

A Lead author, Chapter III, IPCC report on Good Practice Guidance for Land Use, Land Use Change and Forestry (LULUCF). Intergovernmental Panel on Climate Change (IPCC).

*(I received a personalized certificate documenting my contribution to IPCC work (Nobel Peace Prize laureate together with the Intergovernmental Panel on Climate Change; 2007).*

## **ACADEMIC APPOINTMENTS**

1998-present Associate Professor, *University of Khartoum, Sudan*  
1992-1998 Assistant Professor, *University of Khartoum, Sudan*  
1991-1992 Research Associate, *Department of Forest Products, Oregon State University, Corvallis, Oregon, USA*  
1986-1990 Ph.D. Student and Graduate Research Assistant, *Department of Forest Products, Oregon State University, Corvallis, Oregon, USA*  
1984-86 Teaching Assistant, *Department of Forestry, Faculty of Agriculture, University of Khartoum, Sudan*  
1982-84 M.Sc. Student, *Technische Universität Dresden, Germany*  
1980-82 Teaching Assistant, *Department of Forestry, Faculty of Agriculture, University of Khartoum, Sudan*  
1979-80 Researcher Assistant, *Forestry Research Center, Soba, Sudan*

## **POSITIONS HELD**

2010-present Head, Training and Information Unit, *Faculty of Forestry, University of Khartoum*  
2002-2009 Dean, *Faculty of Forestry, University of Khartoum*  
2000-2002 Deputy Dean, *Faculty of Forestry, University of Khartoum*  
1998-2004 Head, *Department of Forest Products and Industries, Faculty of Forestry, University of Khartoum*  
1999 FAO Regional Expert in Aden, Yemen (for six-months especial service agreement), *FAO Project (GCP/ YEM/026/NET)FAO: Watershed Management and Wastewater Re-Use in the Peri-Urban Areas of Yemen*

## **ACTIVITIES AT THE UNIVERSITY OF KHARTOUM**

2010-present Member, Self-Assessment Committee, *Faculty of Forestry*  
2010-present Member of the council of the Arabicization Administration  
2006-present Chair, Academic Reform Committee, *Faculty of Forestry*.  
1998-present Member of the Senate  
1998-present Chair, Postgraduate Studies Committee, *Faculty of Forestry*  
1994-present Member, Faculty Board, *Faculty of Forestry*  
1994-present Member, Faculty Research Board, *Faculty of Forestry*  
1994-present Member of the Arabicization Committee, *Department of Forest Products and Industries, Faculty of Forestry*  
1993-present Member of the Department Council, *Department of Forest Products and Industries, Faculty of Forestry*

2002-2009	Chair, Faculty Board, <i>Faculty of Forestry</i>
2002-2009	Chair, Faculty Research Board, <i>Faculty of Forestry</i>
2002-2009	Member, Faculty Board, <i>Faculty of Agriculture</i>
2002-2009	Member, Faculty Board, <i>Faculty of Animal Production</i>
1995-2001	Chair, Computer Committee, <i>Faculty of Forestry</i>
1993-1999	Member, Computer Committee, <i>Faculty of Agriculture</i>
1995-1998	Secretary, Faculty of Forestry Board
1994-1998	Secretary, Department Council and Acting Head (2-4 months each year), <i>Department of Forest Products and Industries, Faculty of Forestry</i>
1994-97	Member of the Staff Housing Committee, <i>Shambat Campus</i>
1992-93	Participated in the promotion of the former <i>Department of Forestry</i> to the <i>Faculty of Forestry</i>

## OTHER ACTIVITIES

2015--present	Member, Steering Committee of the Project “Support in Structuring the Gum Arabic Sector in Sudan”.
2009-present	Member, Committee of Scientific Research, <i>Ministry of High Education and Scientific Research, Khartoum</i> .
2009-present	Member, Commodity Council for Forest Products and Services, <i>Higher Council for Agricultural Revival, Khartoum</i>
2002-present	Member, Higher Council for Natural Resources, <i>National Forests Corporation</i>
2001-present	Member, Steering and Policy Committee for Collaboration between Forestry Institutions, <i>National Forests Corporation, Sudan</i>
2014	National Consultant- Education and Training Expert-Sudan. Project: TCP/RAB/3501; Strengthening forestry education and knowledge in the Near East. Food and Agriculture Organization of the United Nations.
2010-2011	National Consultant, Sudan’s Greenhouse Gases Mitigation Study, Second National Communication Project; under the United Nations Framework Convention on Climate Change (UNFCCC)
2009-2010	Member, Committee of Development of Natural Resources Curriculum. <i>Faculty of Natural Resources, Africa University, Khartoum</i>
2002-2010	Member, Higher Council for Gums, <i>Ministry of Agriculture and Forests</i>
2008-2009	Member, Committee for Curriculum Development, <i>Faculty of Forestry and Range Sciences, University of Rumbeik</i>
2008-2009	Member, Group of Experts of Wood and Non Wood Forest Products, Commodity Council for Gum Arabic and Forest Products, <i>The Higher Council for Agricultural Revival. Khartoum</i>
2005-2009	Member, Professional Association of Sudanese Universities and Higher Institutes Teachers

2004-2009	Member, Society of Arab Colleges of Agriculture (SACA)
2002-2009	Member, Committee of Agricultural, Veterinary, Natural Resources and Environmental Studies, <i>Ministry of High Education and Scientific Research</i> , and <ul style="list-style-type: none"><li>- Chair, of seven subordinate committees (including Curriculum Development Committee for the Agricultural Sector Faculties of the Sudanese Universities)</li><li>- Member of six subordinate committees (including Self-Evaluation and Accreditation Committee)</li></ul>
2007-2008	Member, Committee for Curriculum Development, <i>Faculty of Forestry and Range Sciences, University of Sudan for Science and Technology</i>
2006-2008	Member, Regional Agroforestry Committee for East and Central Africa (ECA-RAFT), <i>African Network for Agroforestry Education (ANAFE)</i>
2001-2006	Chair, ECA-RAFT and hence, Member of the (continental) Steering Committee of ANAFE
2006-2007	Chair, Committee for Curriculum Development <i>Faculty of Forestry and Range Management, University of Zalengi</i>
2002-2005	Member, Committee of the Quarter-Century Strategy and Five-Year Strategic Plan for Forestry, Quarter-Century Strategy of the Agricultural Sector, <i>Ministry of Agriculture and Forests</i>
2002-2003	Lead Author, Chapter III, Good Practice Guidance for Land Use, Land-use Change and Forestry (LULUCF). Report of the Intergovernmental Panel on Climate Change (IPCC)
2001-2002	Member, National Team for Agroforestry Training Needs Assessment (Sudan). <i>University of Khartoum and ANAFE</i>
1997-1998	Associate Researcher (Fellow), <i>National Centre for Research, Khartoum, Sudan</i>

## TEACHING EXPERIENCE

■ **Prepared and taught the following undergraduate courses and practical for forestry B.Sc. students:**

1996-Present	Special Studies: Wood Technology (fifth year, <i>University of Khartoum</i> )
1993-Present	Forest Utilization: Wood as a Raw Material (fourth Year, <i>University of Khartoum</i> )
1992-Present	Annual participation in training final students in constructing forest working plans (a four to six-week field work inside forests and full supervision of the students in results analysis and writing up of dissertations (fifth year, <i>University of Khartoum</i> )
2006-2012	Statistical Methods (fourth year, <i>University of Khartoum</i> )
1996-2006	Seminars (fifth year, <i>University of Khartoum</i> )
1996-2000	Supervision of B.Sc. dissertations (fifth year, <i>University of Kordofan</i> )

1997-1998	Computer courses (for first and second year students, <i>Academy of Medical Sciences and Technology, Khartoum</i> )
1992-1993	Forest Utilization (fourth year, <i>University of Juba</i> )
1984-1986	Forest Harvesting (fourth year, <i>University of Juba</i> )

■ **Teaching assistant for some courses as follows**

1988-1990	Wood Anatomy (graduate course, <i>Oregon State University</i> )
1984-1986	Forest Utilization, (undergraduate courses, <i>University of Khartoum and University of Juba</i> )
1980-1982	

■ **External examiner for B.Sc. students**

2010-2011	Fifth year students, Faculty of Forestry and Range Sciences, <i>University of Sudan for Science and Technology</i>
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■ **Post graduate training**

At present	Supervising one M.Sc. and two Ph.D. students at <i>Faculty of Forestry</i> and one Ph.D. student at <i>Institute of Environmental Studies (University of Khartoum)</i> ; one Ph.D. student ( <i>University of Gezira</i> )
19943-present	Supervised 30 M.Sc. and four Ph.D. students; co-supervised three M.Sc. and two Ph.D. students ( <i>Faculty of Forestry</i> ); and one M.Sc. student ( <i>Translation and Arabicization Unit</i> ); all awarded their degrees.
1995-present	Internal examiner for 61 graduate students: 52 M.Sc. students and five Ph.D. students ( <i>Faculty of Forestry</i> ); four M.Sc. students ( <i>Faculty of Science; Institute of Environmental Studies; Translation and Arabicization Unit</i> ) External examiner for six M.Sc. and one Ph.D. students ( <i>University of Sudan, University of Kordofan, University of Juba, National Research Center</i> )

■ **Prepared and taught the following post graduate courses**

2011-present	Biometrics and Experimental Design (M.Sc. students in Microbiology, <i>Department of Microbiology, Faculty of Veterinary Medicine, University of Khartoum</i> )
2013	Biometrics (M.Sc. students, in Pathology, <i>Department of Pathology, Faculty of Veterinary Medicine, University of Khartoum</i> )
2008-2013	Statistical Inference (M.Sc. students, <i>Institute of Environmental Studies, University of Khartoum</i> )
1996-1999	Statistical Methods (Voluntary course for M.Sc. students, <i>Faculty of Forestry, University of Khartoum</i> )
1995-1998	Introduction to Tropical Agriculture and Forestry (M.Sc. students, <i>Translation and Arabicization Unit, Faculty of Arts, University of Khartoum</i> )

■ **In-Service Training**

■ Prepared and taught the following short courses (5)

(Introduction, word processors, spread sheets, graphics, statistical analysis using SAS)

2010 Applied Statistics- a Preparatory Course to Forest Growth Modeling, for the staff of the *Directorate of Forest Management, Sahel Center for Forestry Training, Forests National Corporation, Khartoum*

2006 Statistical Methods in Forestry and SAS software, for the staff of the *Forests National Corporation, Khartoum*

1993-2001 Computer Applications in Agricultural Sciences for staff and graduate students of the faculties of *Forestry, Agriculture, Veterinary Sciences and Animal Production, University of Khartoum*.

1995-1996 Computer Applications for Foresters, *National Forests Corporation* (Khartoum and Wad Medani)

1994-1995 Computer Applications in Forestry Research Work, *Forestry Research Center, Agricultural Research Corporation, Soba*.

■ Participated in preparing and teaching the following training courses (6)

2003 Special Topics in Forestry, for the staff of the *Forests National Corporation, Khartoum*

1998 National Inventory of Green House Gases, Module 5: Changes in Land Use and Forestry. *Meteorological Authority, Khartoum* (Sponsored by *Higher Council for Environment and the Intergovernmental Panel for Climate Change*)

1998 Management and Utilization of Community Forests, for the staff of the *Forests National Corporation, Wad Medani*. (Sponsored by *Sudanese Social Forestry Society*)

1996 National Training Course in Forest Utilization, for senior staff, *Forests National Corporation, Wad Medani*. (Sponsored by: *Arab Organization of Agricultural Development*)

1995-1998 Practical Training on Constructing Forest Working Plans for *Acacia nilotica* Plantations in Central Sudan, for Staff of the *Administration of Forest Management, Forests National Corporation*)

1995 National Training Course in Forest Management and Planning, for the staff of the *Forests National Corporation, Wad Medani*. (Sponsored by: *Arab Organization of Agricultural Development*)

## RESEARCH EXPERIENCE

■ Published Research Articles (31)

Ahmed, Zeinab A.A.; Mohamed A. Ismail and **Abdelazim Yassin Abdelgadir**. 2015. Mathematical modeling of thin layer solar drying of gum Arabic from *Acacia senegal* and *A. seyal*. *University of Khartoum Journal of Agricultural Sciences* 23 (1): 66-88

Gamal, Hanadi Mohamed Shawgi and **Abdelazim Yassin Abdelgadir**. 2015. Variation in wood fiber characteristics among thirty two hardwood species grown in low-rainfall woodland savannah (Sudan). *Research Journal of Agriculture and Environmental Management* 4(2): 69-77.

Ibrahim, Manahil Fadl Elseed and **Abdelazim Yassin Abdelgadir**. 2015. Effect of growth rate on fiber characteristics of *Eucalyptus camaldulensis* wood of coppice origin grown in White Nile State, Sudan. *Journal of Natural Resources and Environmental Studies* 3(1): 14-23.

Ahmed, Zeinab A.A. and **Abdelazim Yassin Abdelgadir**. 2014. Moisture desorption and adsorption characteristics of gum Arabic from *Acacia senegal* and *A. seyal*. *University of Khartoum Journal of Agricultural Sciences* 22 (2): 259-271.

Ibrahim, Manahil Fadl Elseed and **Abdelazim Yassin Abdelgadir**. 2014. Effect of growth rate on fixed carbon, volatile matter and ash content of *Eucalyptus camaldulensis* wood of coppice origin grown in White Nile State, Sudan. *Journal of Forest Products and Industries* 3(6): 229-235.

Ahmed, Lamia T; Essam I. Warrag and **Abdelazim Yassin Abdelgadir**. 2014. Effect of shade on seed germination and early seedling growth of *Moringa oleifera* Lam. *Journal of Forest Products and Industries* 3(1): 20-26.

Eltayb, M. Tom Ahmed; Abdalla Gaafar Mohamed and **Abdelazim Yassin Abdelgadir**. 2013. Effects of *Acacia Senegal* (L.) seeds on germination of *Striga hermonthica* (Del.) Benth seeds and on yield of *Sorghum bicolor* (L.) Moench in Sudan. *Journal of Forest Products and Industries* 2(4): 9-15.

Mohamed, Tagelsir E.; **Abdelazim Yassin Abdelgadir**; M. M. Megahed and Ramadan Nasser. 2011. Effect of Mixing Three Lignocellulosic Materials with Different Cement Ratios on the Properties of Cement Bonded Particleboard. *Journal of Science and Technology* 12(3): 44-54

Mohamed, Tagelsir E.; **Abdelazim Yassin Abdelgadir**; M. M. Megahed and Ramadan Nasser. 2011. Effect of Some Treatments on the compatibility of some lignocellulosic materials with Portland cement. *Journal of Science and Technology* 12(3): 12-19

Ahmed, Lamia T; **Abdelazim Yassin Abdelgadir**; Abdelatif E. Mahmoud and Essam I. Warrag. 2011. Effect of shade on xylem development of *Moringa oleifera* (Alrawag) seedlings. *University of Khartoum Journal of Agricultural Sciences* 19 (2): 188-201.

Ahmed, Zeinab A.A.; **Abdelazim Yassin Abdelgadir** and Abdelazim M.A. Zumrawi. 2010. Sorption isotherms for six tropical hardwood species. *University of Khartoum Journal of Agricultural Sciences* 18 (1): 64-78.

**Abdelgadir, Abdelazim Yassin**; Somaya Omer M. Abdoun and Mubarak Elsiddig Elamin. 2010. Variation in the Morphological and components of *Balanites aegyptiaca* (L.) Del. Fruit in Abu Jubeiha Area, South Kordofan State. *Sudan Silva* 14(1): 27-34.

Abdalla, Ashraf M.A.; Tarig Tag Elsir Hassan; **Abdelazim Yassin Abdelgadir** and Abdelatif E. Mahmoud. 2010. Effect of cold water extraction duration and calcium chloride treatment on some physical properties of *Acacia nilotica* wood-cement aggregates. *Sudan Silva* 14(1): 1-9

Elhedy, Atef M.A.; **Abdelazim Yassin Abdelgadir** and Abdelatif Eltayeb Mahmoud. 2007. Effect of pretreatment and cement/bamboo ratio on the properties of bamboo-cement products. *Discovery and Innovation Journal* 19 (4): 335-339.

Ahmed, Amal Bashir; **Abdelazim Yassin Abdelgadir** and Osman Taha Elzakii. 2007. Effect of wood/cement ratio, calcium chloride content and pressure on compressive strength of *Acacia seyal* wood-cement aggregates. *Sudan Silva* 13 (1): 24-35.

**Abdelgadir, Abdelazim Yassin**; Mohamed E. Dafa Alla and Abdelatif Eltayeb Mahmoud. 2006. A research note on the variability of mechanical properties of *Acacia nilotica* wood in Abu Kouk Forest. *Sudan Silva* 12 (1): 79-87.

Abdalla, Ashraf M. Ahmed and **Abdelazim Yassin Abdelgadir**. 2006. Effect of wood/cement ratio and particle size on some properties of *Acacia nilotica* wood-cement aggregates. *Sudan Silva* 12 (1): 41-52.

**Abdelgadir, Abdelazim Yassin** and Ashraf M. Ahmed Abdalla. 2005. Effect of wood pretreatment on the modulus of rupture of *Acacia nilotica* wood-cement aggregate (a research note). *Sudan Silva* 11 (1): 79-84.

**Abdelgadir, Abdelazim Yassin** and Manahil F.S. Ibrahim. 2003. Effect of pretreatment and cement/wood ratio on the compatibility of wood with Portland cement. *Sudan Silva* 9 (2): 78-86.

**Abdelgadir, Abdelazim Yassin** and Manahil F.S. Ibrahim. 2002. A note on the compatibility of five home-grown species with Portland cement. *University of Khartoum Journal of Agricultural Sciences* 10 (1): 150-155.

**Abdelgadir, Abdelazim Yassin** and Adil A. Nile. 1998. Some factors affecting sawnwood yield and recovery of *Acacia nilotica* in the Blue Nile, Sudan. Part II. Relationships between log characteristics and sawnwood yield and recovery *University of Khartoum Journal of Agricultural Sciences*. 6 (2): 111-128.

**Abdelgadir, Abdelazim Yassin** and Adil A. Nile. 1998. Some factors affecting sawnwood yield and recovery of *Acacia nilotica* in the Blue Nile, Sudan. Part I. Variation and the effect of log position on sawnwood yield and recovery. *University of Khartoum Journal of Agricultural Sciences*. 6 (2): 101-110.

**Abdelgadir, Abdelazim Yassin** and Abdelatif E. Mahmoud. 1998. Denser wood from faster growth: More energy. *Social Forestry and Environment*, 5<sup>th</sup> Issue.

Nile, Adil A. and **Abdelazim Yassin Abdelgadir**. 1997. The effect of tree stocking density and log position on log characteristics of sunt (*Acacia nilotica*). *Journal of Natural Resources and Environmental Studies* 1 (1): 37-42.

**Abdelgadir, Abdelazim Yassin** and Abdelatif E. Mahmoud. 1995. Variation in wood specific gravity of *Eucalyptus microtheca* provenances in two plantations. *University of Khartoum Journal of Agricultural Sciences* 3 (2): 137-150.

Mahmoud, Abdelatif E. and **Abdelazim Yassin Abdelgadir**. 1994. Fibre length variation of six *Eucalyptus* species growing in Central Sudan. *University of Khartoum Journal of Agricultural Sciences* 2 (2): 141-146.

**Abdelgadir, Abdelazim Yassin** and Abdelatif E. Mahmoud. 1994. The Economic importance of the Wooden Furniture Industry in the Sudan. Forest Products Consumption Survey: Topic Specific Study Report No. 11. *Forests National Corporation (FNC) and Food and Agriculture Organization (FAO)*. Khartoum. pp 34.

**Abdelgadir, A. Yassin** and R.L. Krahmer. 1993. Genetic variation in the age of demarcation between juvenile and mature wood in Douglas-fir. *Wood and Fiber Science* 25 (4): 384-394.

**Abdelgadir, A. Yassin** and R.L. Krahmer. 1993. Estimating the age of demarcation of juvenile and mature wood in Douglas-fir. *Wood and Fiber Science* 25 (3): 242-249.

**Abdelgadir, A. Yassin; R.L. Krahmer, and M.D. McKimmy.** 1993. Relationships between intra-ring variables in mature Douglas-fir trees from provenance plantations. *Wood and Fiber Science* 25 (2): 182-191.

**Abdelgadir, A. Yassin; R.L. Krahmer, and M.D. McKimmy.** 1993. Intra-ring variations in mature Douglas-fir trees from provenance plantations. *Wood and Fiber Science* 25 (2): 170-181.

## ■ Research Articles Accepted for Publication (2)

Abdoun, Somaya Omer M., **Abdelazim Yassin Abdelgadir** and Mubarak Elsiddig Elamin. 2017. The Effect of *Balanites aegyptiaca* (L.) Del. fruit's shape and location on its chemical constituents. *Advances in Ecological and Environmental Research*.

Ibrahim, Manahil Fadl Elseed and **Abdelazim Yassin Abdelgadir**. Effect of growth rate on density of *Eucalyptus camaldulensis* wood of coppice origin grown in White Nile State, Sudan. *Journal of Forest Products and Industries*.

## ■ Conference/Workshop Papers in Proceedings/Abstract Books (7)

Gamal, Hanadi M.S. and **Abdelazim Yassin Abdelgadir**. 2013. Tree species for rural development in Sudan. Tropentag 2013: *Agricultural development within the rural-urban continuum*, University of Hohenheim, Stuttgart, September 17-19. CUVILLIER Verlag, Göttingen.

Gamal, Hanadi M.S.; **Abdelazim yassin Abdelgadir** and Claus-Thomas Bues. 2012. Variation in wood fiber characteristics among thirty two hardwood species grown in low-rainfall wood land savannah, Sudan. The 5<sup>th</sup> Conference on: Hardwood Research and Utilization in Europe, Sopron, 10-11<sup>th</sup> September 2012. *Hardwood Science and Technology* in cooperation with Faculty of Wood Sciences, *University of West Hungary*, Sopron and Department of Material Sciences and Process Engineering, *University of Natural Resources and Applied Life Sciences*, Vienna.

Ahmed, Amel B.; **Abdelazim Y. Abdelgadir**; Osman T. Elzakii and Paridah M. Tahir. 2012. Effects of processing parameters on the compressive strength of wood-cement aggregates manufactured from *Acacia seyal*. In: Tomoko, S. and L.Ch. Peng (Eds). Biomass: sustainable natural resource and innovation for a greener future: Proceedings of 4th USM-JIRCAS Joint International Symposium 18-20th January 2011, p 246-250. Penang, Malaysia - Tsukuba: Japan International Research Center for Agricultural Sciences. pp 427.

**Abdelgadir , Abdelazim Yassin** and Osman Y. Hamid. 2010. The role of higher education in alleviating curricula problems in Sudan. Conference of Graduate Studies and Scientific Research. University of Khartoum. 27<sup>th</sup> February-2<sup>nd</sup> March, 2010. Friendship Hall, Khartoum. .

**Abdelgadir, Abdelazim Yassin.** 2006. Towards the improvement of tertiary forestry education in Sudan. Regional Workshop on Experts Seminars for Revising and Complementing Teaching Modules on Research Methodologies for Natural Sciences. *German Academic Exchange Service (DAAD)*. February 28-March 08, 2006, Faculty of Natural Resources, University of Kordofan. Elobeid, Sudan.

El Siddig, E.A.; **Abdelazim Yassin Abdelgadir** and A.M. Eltayeb. 2005. "Biodiversity inventory of the tree resources in Jebel Mara: Towards a sustainable utilization" (in Arabic). Regional Workshop on Biodiversity and the Role of Protected Areas and Banks of Genetic Resources in its Conservation. September 12-14, 2005. *Ministry of Higher Education and Scientific Research* in Collaboration with *Union of Arab Scientific Research Councils*, Khartoum.

Saeed, Akram M. and **Abdelazim Yassin Abdelgadir**. 1997. "The utilization of bagasse The potential and the available technology" (in Arabic). Symposium on "The Utilization of Agricultural Residues." October 13-15, 1997. *The Arab Organization of Agricultural Development*, Khartoum.

#### ■ Technical Forum Posters (2)

**Abdelgadir, Abdelazim Yassin** and R.L. Krahmer. 1991. Density variations in juvenile and mature wood. *Forest Products Research Society (FPRS) 45th Annual Meeting*, June 1991, *New Orleans, Louisiana, USA*.

**Abdelgadir, Abdelazim Yassin** and R.L. Krahmer. 1991. Dependence of *Douglas-fir* properties on wood Density. *Society of American Foresters, SAF 1991 National Convention*, August 1991, *San Francisco, USA*.

#### ■ Papers under Preparation: (2)

**Abdelgadir, Abdelazim Yassin**. 2017. Wood anatomy of Sudan ebony (*Dalbergia melanoxylon*). *University of Khartoum Journal of Agricultural Sciences*

Alachgar, Nidal M. and **Abdelazim Yassin Abdelgadir**. 2017. A brief review on modeling of forest tree-stem tapering. *Technical Report, Faculty of Forestry Publications, UoK*

#### ■ Technologies Released by the National Husbandry Committee of the Agricultural Research Corporation (4):

*These are papers leading to specific technologies that are critically discussed in the forum of the National Husbandry Committee of ARC; accepted technologies are endorsed for application by interested institutions in the country.*

Hassan, Tarig T.S; **Abdelazim Yassin Abdelgadir**; Abdelatif Eltayeb Mahmoud and Atef M.A. Elhedy. 2005. Effect of some physical and chemical treatments on the mechanical properties of sunt wood-cement composites.

Hassan, Tarig T.S; **Abdelazim Yassin Abdelgadir**; Abdelatif Eltayeb Mahmoud and Atef M.A. Elhedy. 2005. Effect of cement replacement by lime on the physical and properties of *Acaia nilotica* wood-cement mixture.

Elhedy, Atef M.A.; **Abdelazim Yassin Abdelgadir** and Abdelatif Eltayeb Mahmoud. 2005. Effect of pretreatment and cement/bamboo ratio on the properties of bamboo-cement products

Mahmoud, Abdelatif E., **Abdelazim Yassin Abdelgadir** and Medani I. Mohammed. 2004. "A lens key for the identification of 44 commercially important wood species in Darfur, Sudan" (In Arabic).

## ■ Research Projects (4)

**Title:** Studies on the Anatomy of Wood Species Grown in Sudan

**Researcher:** **Abdelazim Yassin Abdelgadir**

**Sponsor:** Ministry of Higher Education and Scientific Research

**Title:** The effect of raw material (species, particle geometry ...etc) and technological aspects (ratio, extraction, chemical additives) on the quality of wood-cement composites.

**Researchers:** **Abdelazim Yassin Abdelgadir** and Ashraf Mohamed Ahmed

**Sponsor:** Faculty of Forestry, UofK

**Title:** Studies on socio-economics, management and utilization of non-wood forest products in Southern Kordofan State, Sudan.

**Researchers:** Elamin Sanjak Mohamed Ali (Team Leader); **Abdelazim Yassin Abdelgadir**; Abdalla Mirgahi Eltayeb; Huda Abdelwahab Sharwi; Essam Ibrahim Warrag; Ashraf Mohamed Ahmed

**Sponsor:** Ministry of Higher Education and Scientific Research

**Title:** Promoting Higileeg (*Balanites aegyptiaca* L.) tree products for improved rural livelihoods, nutrition and food Security in dry lands of Central Sudan

**Researchers:** Abdalla Mirghani Eltayeb (Team Leader); Yahia Omer Adam; **Abdelazim Yassin Abdelgadir**; Ashraf Mohamed Ahmed; Mohamed Osman Mohamed Elhasan; Zeinab Ahmed Adelhameed; Elamin Sanjak Mohamed Ali; Elwasila Mukhtar Mohamed; Hind Hashim Elrayah

**Sponsor:** Ministry of Higher Education and Scientific Research

## ■ Research Work in Progress:

### • Variation in forest tree carbon content

- Variation in carbon content of three *Acacia* species between and within sites

### • Wood-cement aggregates from local material

- The effect of raw material (species, particle geometry, size ... etc) and technological aspects (components ratio, extraction, chemical additives) on the quality of wood-cement composites

### • Wood properties of tree species growing in Sudan

- Comparative wood anatomy of *Acacia* species growing in the Sudan.
- Anatomical features and preparation of lens and microscopic keys for the identification of important wood species growing in Sudan.
- Variations in the physical and mechanical properties of *Acacia nilotica* and *Balanites aegyptiaca* wood among sites.
- The nature and extent of juvenile wood in some wood species growing in Sudan.

- The effect of the rate of growth on the extractive content and density of *Eucalyptus* wood.

- **Wood working properties**

- The effect of glue type and methods of application on the bonding strength of radial and tangential faces of some wood species growing in Sudan.
- The effect of species, wood quality and steaming time on the maximum radius of curvature of bend wood from tree species growing in Sudan.

- **Stem taper modeling and assortments**

- Variation and modeling of tapering of some home-growing tree species
- Tapering of trees and its relationship to grade yield of building poles produced from *Eucalyptus camaldulensis*

- **Studies on non-wood forest products**

- Importance of non-wood forest products in Eastern Nuba Mountain, South Kordofan State
- Variation in chemical properties of *Balanites aegyptiaca* fruit
- The effect of mono-valent and divalent cations on the viscosity of gum Arabic.

- **Reviewer in the Following Journals**

University of Khartoum Journal of Agricultural Sciences (UKJAS)

Journal of Natural Resources and Environmental Studies (JONARES)

Journal of Science and Technology (J.Sc. Tech)

El-Buhuth Journal

Sudan Silva, Sudanese Forestry Society

Sudan Journal of Desertification Research (Sd.J.Des.Res.)

Sudanese Journal of Agricultural Sciences (SJAS)

Journal of the Arab Authority for Agricultural Investment and Development

## CONFERENCES AND WORKSHOPS

- **Presentations (17)**

**Abdelgadir, Abdelazim Yassin.** 2013. Wood anatomical structure, the key for wood species identification. November 13, 2013. Conference Hall, Metrological and Standards Building. Port Sudan.

**Abdelgadir, Abdelazim Yassin** and Asraf Mohamed Abdalla. 2013. Wood-cement Products. Workshop on Wood Industries. June 17, 2013. Conference Hall, Metrological and Standards Tower. Khartoum

**Abdelgadir, Abdelazim Yassin.** 2013. Participatory curriculum development. Workshop on Knowledge Management for Environmental Sustainability-Towards an environmentally conscious and conserving Sudanese Society Workshop. *Sudanese Knowledge Society*. June 1-2, 2013. DAL Excellence Centre, Khartoum

**Abdelgadir, Abdelazim Yassin** and Abdalla.M. Eltayeb. 2013. Towards sustainable efficient production from Talm Forests by rural communities in Sudan. *Summer School Workshop. Welcome to Africa, Scientific Cooperation Network on Climate Change*

*Adaptation. Deutscher Akademischer Austausch Dienst (DAAD) and Federal Ministry of Education and Research-Germany.* March 4–9, 2013. Conference Hall, Faculty of Forestry, Shambat, Sudan.

**Abdelgadir, Abdelazim Yassin**. 2012. Towards sustainable management and efficient utilization of Talh Forests in Central Sudan. Novmber 6, 2012. Quantzu Univercity, China

**Abdelgadir, Abdelazim Yassin**. 2012. Mitigation in the non-energy sector (Land-Use, Land-Use Change and Forestry Sectors). Sudan's Second National Communication under the United Nations Framework Convention on Climate Change, Second Greenhouse Mitigation Workshop. *Higher Council for Environment and Natural Resources*. April 29, 2012. Sudanese Academy for Banking and Financial Sciences Hall, Khartoum.

**Abdelgadir, Abdelazim Yassin**. 2011. Climate Change: Impact, Adaptation and Mitigation. Workshop. February 23-24 2011. Government Grand Hall, Gedarif State.

**Abdelgadir, Abdelazim Yassin**. 2011. Non-wood forest products. Agroforestry for Sustainable Land Husbandry and Rehabilitation Workshop. *VITRI, University of Helsinki*. July 12-24, 2011. Wondo Genet College of Forestry, Ethiopia.

**Abdelgadir, Abdelazim Yassin**. 2010. Mitigation methods and tools in the non-energy sector (Land-Use, Land-Use Change and Forestry Sectors). First Greenhouse Mitigation Workshop. Second National Communication Project. *Higher Council for Environment and Natural Resources*. March 7-8, 2010. Sudanese Academy for Banking and Financial Sciences Hall, Khartoum.

**Abdelgadir, Abdelazim Yassin**. 2009. Adding value to Talh (*Acacia seyal*) forests. The 15<sup>th</sup> Annual Forestry Conference. *Forests National Corporation*. April 15-16, 2009. FNC HQ, Khartoum, Sudan.

**Abdelgadir, Abdelazim Yassin**. 2008. Participatory curriculum development at the Faculty of Forestry, University of Khartoum. VITRI-Postgraduates Seminar. April 28, 2008. University of Helsinki. (Sponsered by *Center of International Mobility (CIMO) Helsinki, Ministry of Forien Affairs, Finland*).

**Abdelgadir, Abdelazim Yassin**. 2006. A Story of participatory curriculum development. Meeting of the Regional Agroforestry Committee for East and Central Africa (ECA-RAFT). *African Network for Agroforestry Education (ANAFE)*. November 26-30, 2006. Nazareth, Ethiopia.

**Abdelgadir, Abdelazim Yassin** and Abdelnasir I.A. Hanno. 2006. Capacity building of human and institutions resources in relation to desertification. Stakeholders' Consultative Workshop on Combating Desertification. May 24, 2006. *Higher Council for Environment and Natural Resources*, Khartoum.

**Abdelgadir, Abdelazim Yassin**. 2005. Forestry curricula in Sudan and need for improvement. Regional Workshop on Forestry Curricula of Higher Education Institutes in the Near East Region. *Near East Regional Office, FAO in collaboration with Faculty of Forestry, University of Khartoum and Forests National Corporation*. November 8-11, 2005, Sahel Forests Training Center, Khartoum.

**Abdelgadir, Abdelazim Yassin**. 2005. Improving forestry curricula for sustainable forest management (FNP). The 11<sup>th</sup> Annual Forestry Conference. *Forests National Corporation*. February 22-25, 2005. FNC-HQ, Khartoum.

**Abdelgadir, Abdelazim Yassin.** 2004. Features of tertiary forestry education in Sudan. National Workshop on Improvement of Forestry Education in Sudan. *Ministry of Higher Education and Scientific Research*. December 22, 2004. SAA-Hall, Faculty of Forestry, University of Khartoum, Shambat, Sudan.

El Siddig, E.A. and **Abdelazim Yassin Abdelgadir.** 1998. Carbon fluxes in relation to land-use changes and forestry. National Workshop on Green House Gasses Inventory. *Higher Council for Environment and Natural Resources and Intergovernmental Panel for Climate Change*. August 22-27, 1998. Meteorological Authority HQ, Khartoum.

## ■ Other Selected Conferences and Workshops Attended

2008 National Symposium on Sustainable Use of the Dry Lands of Sudan. *UNESCO Chair of Desertification Studies*, June 17, 2008. Shariga Hall, University of Khartoum, Khartoum.

2008 The 14<sup>th</sup> Annual Forestry Conference: Wet lands Forests; Current Status and Future Outlook. *Forests National Corporation*. February 24-26, 2008. FNC HQ, Khartoum, Sudan.

2008 Joint Meetings of AFWC and NEFC: The 16th Session of the African Forestry and Wildlife Commission and 18<sup>th</sup> Session of the Near East Forestry Commission. *Forests National Corporation*. February 18-21, 2008. Friendship Hall, Khartoum.

2007 First Global Workshop on Improving Forestry Education. *International Partnership for Forestry Education (IPFE) and African Network for Agroforestry Education (ANAFE)*. September 25-27, 2007, Nairobi, Kenya.

2007 Conference of Future University. *Ministry of Higher Education and Scientific Research* in collaboration with *Future Studies Center*. August 27-29, 2007, Friendship Hall, Khartoum.

2007 The 13<sup>th</sup> Annual Forestry Conference: Towards Sustainable Development of Forest Resources. *Forests National Corporation*. January 10-12, 2007. FNC HQ, Khartoum.

2006 Enhancing the National Forest Program (nfp) Process in Sudan: An Informative Workshop on NFP's Basic Principles and Elements. *NFP Facility, FAO, Rome, and Near East Regional Office, Cairo*. June 19-21, 2006. Conference Hall, FNC HQ, Khartoum.

2003 International Symposium on Relevance of Agricultural and Natural Resource Management Tertiary Education in Africa. *ANAFE*. April 16-21, 2003, Nairobi, Kenya.

2002 International Workshop on Promotion of Gum Arabic Production, Processing and Marketing. *Forests National Corporation and Common Fund for Commodities*. April 22-25, 2002. Friendship Hall, Khartoum, Sudan.

2001 National Workshop on Participatory Agroforestry Curriculum Development *University of Juba and ANAFE*. August 1-2, 2001. Agricultural Bank Hall, Khartoum.

2001 National Workshop on Agroforestry Education Outlook in Sudan. *University of Khartoum and ANAFE*. May 21-22, 2001. Mahogany Hall, Faculty of Forestry, Shambat, Sudan.

2001 The Second General Meeting of East and Central Africa Regional Agroforestry Training Group (*ECA-RAFT*). *ANAFE*. April 16-21, 2001. Eldoret, Kenya.

2001 The Seventh Annual Forestry Conference: Towards Sustainable Development of Forest Resources. *Forests National Corporation*. January 10-12, 2001. FNC, Damazin, Sudan.

1999 The Fifth Annual Forestry Conference. FNC HQ, Khartoum, Sudan. *Forests National Corporation*.

1997 The National Symposium on the Utilization of Agricultural Residues. *The Arab Organization of Agricultural Development*. October 13-15, 1997. AOAD Conference Hall, Khartoum.

1995 The Second Annual Forestry Conference: Planning, Afforestation and Management. *Forests National Corporation*. FNC, Wad Medani, Sudan.

1983 Silvicultural, Technological, Economic and Other Problems Connected with the Mechanization of Thinning Operations. September 12-16, 1983. Eberswalde, Germany. *ECE, FAO, and ILO, Joint Committee on Forest Working Techniques and Training of Forest Workers*.

1979 International Symposium on the Use of Home Grown Wood in Building. *Building and Road Research Institute*. February 2-8, 1997. Khartoum.

## ■ CONSULTANCIES AND TECHNICAL REPORTS (14)

**Abdelgadir, Abdelazim Yassin.** 2014. Report of the National Consultant- Education and Training Expert: Strengthening of Forestry Education-SUDAN. Project Number: TCP/RAB/3501 (Strengthening Forestry Education and Knowledge in the Near East). Food and Agriculture organization of the United Nations. Pp 19.

**Abdelgadir, Abdelazim Yassin;** Abdalla Ashraf M.A. and Tag Eldin H. Nasroun. 2011 Technical Study for Establishment of a Pulp and Paper Factory in White Nile State.

Nasroun, T.H.; **Abdelazim Yassin Abdelgadir**; Ashraf M.A. Abdalla; Abdelatif E. Mahmoud; Saad Ali Babiker. 2009. Report of the Experts Group on Wood and Non-wood Forest Products. Presented to the *Commodity Council for Gum Arabic and Forest Products, The Higher Council for Agricultural Revival, Council of Ministers*. Khartoum. Pp 46.

**Abdelgadir, Abdelazim Yassin.** 2007. Forestry components in Kanar Agricultural Scheme, Northern State. Part of a feasibility study prepared by *University of Khartoum Consultancy Corporation for Dams Implementation Unit*.

**Abdelgadir , Abdelazim Yassin** and others . 2005. Quarter-Century Strategy and Five-Year Strategic Plan for Forestry. Presented to the Committee of Quarter-Century Strategy of the Agricultural Sector, *Ministry of Agriculture and Forests*, Khartoum. Pp 84.

**Abdelgadir , Abdelazim Yassin.** 2005. Forestry Interventions in Al-Lara Agricultural Scheme, Northern State (7 pp). Part of a feasibility study prepared by *University of Khartoum Consultancy Corporation for Dams Implementation Unit*.

**Abdelgadir , Abdelazim Yassin** and others. 2005. Diagnostic Study on the Wood Industry Sector in Sudan. Presented to the *Ministry of Industry*, Khartoum. Pp 54.

Warrag, Esam I. and **Abdelazim Yassin Abdelgadir**. 2004. Production and management of gum Arabic. Technical Report prepared for *United Nations Food and Agriculture Organization*, Rome. Pp 35.

**Abdelgadir, Abdelazim Yassin**. 2004. Forestry component in Kehaila Agricultural Scheme, Northern State (pp 15). Part of a study prepared by *University of Khartoum Consultancy Corporation for Dams Implementation Unit*.

El Siddig, E.A.; **Abdelazim Yassin Abdelgadir** and A.M. Eltayeb. 2003. Proposal for the development of forestry component in New-Amri Agricultural Scheme, Al-Hamadab Dam, Northern State (pp 10). Part of a feasibility study prepared by *University of Khartoum Consultancy Corporation for Marawe Dam Unit*.

**Abdelgadir, Abdelazim Yassin**; A. Elhouri Ahmed; Salwa M. Abdelhameed; Mamoun G. Musa; Talat D. Abdelmajid; and Huda A. Sharawi. 2002. Forest products strategy in Sudan. A study submitted to Forests National Corporation, Khartoum. Pp 84.

El Siddig, E.A.; A.M. Eltayeb and **Abdelazim Yassin Abdelgadir**. 1999. Sustainable management of natural forests in Jebel Marra with consideration to community needs. Consultants' Report submitted to *the Sudanese Environment Conservation Society* (Sponsored by: *British Embassy, Khartoum*). Pp 68.

El Siddig, E.A.; A.M. Eltayeb, **Abdelazim Yassin Abdelgadir** and S.E. Muneer. 1996. A ten years working plan for Jebel Marra Forest Circle. Consultants' Report submitted to *Forests National Corporation, Khartoum* (Sponsored by *GTZ Representation in the Sudan*). Pp 306.

**Abdelgadir, Abdelazim Yassin** and Abdelatif E. Mahmoud. 1995. Studies on the Consumption of Forest Products in the Sudan: Wood Use in Construction and Furniture (Household and Establishments). *Final Report submitted to the Technical Advisor of FAO Representation in the Sudan, Khartoum*. (Under the Project: *Forestry Development in the Sudan; CP/SUD/047/NET*). Pp 43.

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

Sudanese Forestry Society

Sudanese Social Forestry Society

Sudanese Environment Conservation Society (SECS)

Sudanese Association for combating Desertification (SACD)

International Association of Wood Anatomists (IAWA)

Forest Products Research Society (FPRS), USA

The Society of Wood Science and Technology (SWST), USA