

PROPOSAL TO BE A HOST INSTITUTION FOR THE AFRICAN CLIMATE CHANGE FELLOWSHIP PROGRAM

Proposals should include the following information:

1. PROPOSING HOST INSTITUTION

The Host Institution is the lead institution that would be responsible for hosting visiting Fellows; coordinating supervision, mentoring, and other support services; receiving fellowship grant funds on behalf of the Fellows; disbursing grant funds to the Fellows; and submitting evaluation reports of the performance of Fellows.

Please provide the following information about institutional identity:

- Name of institution (*include names of specific departments/divisions, if relevant*): [Center for International Forestry Research \(CIFOR\)](#)
- City and country of location: [Bogor, Indonesia \(head office\), Ouagadougou Burkina Faso \(Regional Office for West Africa\), Yaoundé, Cameroon \(Regional Office for Central Africa\)](#)
- Type of institution: [International Research Institution](#)
- Primary mission of institution (*e.g., research, education, regulation, community service, technical service, advocacy, other*): [research](#)
- Secondary missions of institution: [development](#)
- Main thematic area(s) of work (*e.g., water, agriculture, health, development, etc.*): [Tropical Forest and Climate Change Adaptation](#)
- Working language(s) of the institution: [English and French](#)

2. PROPOSAL LEADER

The Proposal Leader is the person responsible for coordinating the hosting of visiting Fellows. Please provide the following contact information for the Proposal

Leader:

- Name: [Johnson Nkem](#)
- Title: [Dr](#)
- Mailing Address: [CIFOR, P.O. Box 0113 BOCBD, Bogor 16000 Indonesia](#)
- Telephone Number (*include country and area codes*): [+62 251 622 622](#)
- E-mail address: j.nkem@cgiar.org

3. COLLABORATING INSTITUTIONS (*if applicable*)

Collaborating Institutions are institutions that would assist the Host Institution by, for example, helping to supervise or mentor a Fellow, involving a Fellow in its research or other work, engaging a Fellow in policy applications, providing training etc. Please provide the following information for each Collaborating Institution:

- Name of institution
- City and country of location
- Primary mission of the institution
- Secondary missions of the institution
- Main thematic areas of work (e.g. water, agriculture, development etc)
- Working languages of the institution
- Name and title of principal contact person
- E-mail address of principal contact person

4. FELLOWSHIP EXPERIENCES TO BE OFFERED

Briefly describe the Fellowship experiences that could be offered to visiting Fellows, including opportunities for involving Fellows in research, education, training, community projects, government planning and policy activities, common activities for visiting Fellows to develop synergies, access to data, access to research facilities, support services, etc. (*Maximum of 2 pages*)

Key experiential components to be offered to the visiting Fellow include:

- Frequent interaction and discussions with different CIFOR researchers working on different aspects related to climate change adaptation such as natural resource utilization and governance, natural resource –dependent adaptation, vulnerability analysis and assessment, formulation and mainstreaming of adaptation strategies etc. Visiting Fellows will develop networks, lifelong relationships and a powerful sense of community with others who share an interest in climate change adaptation

- Visiting Fellows will be supervised on what they are doing and guidance will be provided especially on methodological aspects of carrying out a sound research and also on writing a high quality thesis. We have already supervised many students from different continents, both English and French speaking, of which most of them did very well during their evaluation at their various universities.

Visiting Fellows will receive different kinds of training that will include educational training, professional training and intercultural training. Visiting Fellows will be trained and encouraged to write thesis and other scientific articles for publication in peer reviewed national and international journals. They will also receive orientation on future possible careers in the field of climate change adaptation both at public, private and non-governmental / international levels. CIFOR is an international organization comprising of staff from different continents (Africa, Europe, Asia, Americas) often working with in more than one language, which will act as a perfect platform for multicultural learning for the visiting Fellows as they aspire to be future leaders in climate change adaptation. CIFOR staff in Africa work in both French and English language which are the dominating languages in Africa. Visiting Fellows either English or French speaking can work comfortably with CIFOR staff in Africa and can even use it as a medium to learn a second language where the Fellow is not bilingual.

CIFOR is working with many communities at different sites in different African countries including Burkina Faso, Ghana, Mali, Cameroon, and Central Africa Republic. These community level activities cover different research topics on adaptation, ranging from socio-economics (vulnerability and adaptation studies), biophysical (vulnerability studies) and policy relevant themes (Institutions, governance and mainstreaming studies). Visiting Fellows will have an array of community level activities to accommodate their different research interest at community level.

The climate change adaptation project of CIFOR has as one of its objective to develop policy-oriented adaptation strategies that are relevant for mainstreaming into development policies and programmes of national governments. In this light strong partnership and collaboration have been developed between CIFOR and key governmental and inter-governmental institutions such as climate change co-coordinating institutions in various countries (e.g. SP/CONEDD in Burkina Faso, EPA in Ghana, various Ministries of Environment, CILSS, UEMOA etc). Visiting Fellows will find it easier to carry out policy oriented research as CIFOR is in touch with government partners and representatives coupled with the fact that CIFOR is always invited during government planning and policy activities on adaptation.

Just like other research Fellows in CIFOR, visiting Fellows will have access to CIFOR library resources, cars including drivers and field assistance for field work and secretariat services such as visa and accommodation arrangements, issuing spare keys and providing general information.

5. ADMINISTRATIVE AND COST ISSUES

Please provide answers to the following questions:

- How many visiting Fellows would you be interested and capable to host at one time? **3**
- Are there specific dates on which visiting Fellows should begin their fellowships (e.g. beginning of a school term or fiscal year)? **No**
- What is your best estimate of the cost per month that a visiting Fellow would incur for housing, meals and other incidentals? **~ 1000 USD**
- What, if any, registration fees, administrative fees or direct costs would be charged by your institution to host a visiting Fellow? **No**
- Are there any other requirements that a Fellow must meet to be hosted by your institution? **No**

6. QUALIFICATIONS OF THE HOST INSTITUTION

INSTITUTIONAL CAPACITY: Please describe briefly the capacity of the institution to host and provide valuable experiences to visiting Fellows that would enhance their capabilities for promoting climate change adaptation. (Maximum of 1 page).

Capacity to Host: The Africa regional offices of CIFOR in Ouagadougou-Burkina Faso and Yaoundé-Cameroon have many rooms that can accommodate the visiting Fellows. Rooms have table, chair, telephone service, internet access, air conditions, fan, clock, bookshelf and closet space. Other amenities include CIFOR mailboxes, daily and weekly newspapers and magazines in the country and region, area, snack/beverage vending machines, and cold water machine. In addition, visiting Fellows have access to small meetings or social gatherings.

Capacity to provide valuable experiences to visiting Fellows: With a multi-disciplinary team of scientists conducting impact-oriented research, CIFOR is involved in capacity building and training activities for policy makers, midcareer professionals, and student academic programs. As a globally recognized center of excellence on forest management with a wide range of networks, CIFOR provides a unique place for Visiting Follows to build their capacities and acquire professional experiences. CIFOR scientists are participating and contributing at different levels on climate change activities ranging from empirical research at local level, national to international levels, addressing socio-economic, biophysical and policy issues related to adaptation. CIFOR staff constitutes members of – 2007 IPCC-AI Gore Noble peace Prize on climate change - Expert Groups on forest and adaptation under the UNFCCC, - Expert group on adaptation in Africa during the recent African Ministerial conference on Environment held in South Africa, - contributors to national and regional initiatives on mainstreaming climate change into development policies and programmes.

□ PROJECT EXPERIENCE: Please describe briefly up to 5 recent or current projects or major activities that demonstrate capabilities of the institution relevant to climate change adaptation. Include information about the objectives, activities, partners, and outcomes for each project. (Maximum of 2 pages).

5 recent major activities

Activity 1: Provide input by CIFOR experts on climate change adaptation in Africa under the coordination of SEI and UNEP. CIFOR Experts input focused on synergies between climate change adaptation, biodiversity and forest

Objective: Produce a scoping paper on climate change adaptation in Africa as a contribution to Africa Ministerial Conference on Environment, June 2008

Partners: UNEP, SEI, OSS, CCAA, Risoe, ENDA, UCT, HCENR, University of Witwatersrand

Outcome: A report for policy makers (African Ministers of Environment)

Activity 2: provide input by CIFOR Experts during the revision of Burkina Faso Poverty reduction strategy with a focus on the integration of climate change consideration as a major driver to water resources vulnerability in Burkina Faso

Objective: Contribution to PRSP of Burkina Faso

Partners: UNDP Burkina Faso

Outcome: recommendations provided by CIFOR are still under consideration as the process is still ongoing

Activity 3: Provide input by CIFOR Experts on forest and adaptation as a base for further research and contribution on a chapter on forest and adaptation in the Fifth IPCC report

Objective: Contribution to the forest and adaptation expert working group under the IPCC

Partners: IUFRO, FAO

Outcome: activity under progress but reports and background paper on forest and adaptation is expected to be produced at the end.

Activity 4 Brainstorming by CIFOR Experts and workshop participants on different entry points and mechanisms for mainstreaming adaptation

Objective: Organize workshop on mainstreaming adaptation into development activities in Indonesia

Partners: Different government institutions from Indonesia, University members

Outcome: Recommendation for mainstreaming adaptation into development policies and programmes in Indonesia

Activity 5: Carry out empirical research to provide input on forest related programmes on adaptation under Ghana's national adaptation programmes coordinated by Ghana's Environmental Protection Agency

Objective: Contribution to Ghana National adaptation programme on forest related issues

Partners: EPA, FORIG

Outcome: activity is still ongoing.

□ PUBLICATIONS RECORD: Please list publications of the proposing host institution (specifically, if applicable, the proposing department/division) and its staff or faculty for the past 5 years that are most relevant to the goals of the Fellowship Program to enable climate change adaptation (include full bibliographic information for each listed publication).

Kalame, F.B., Idinoba, M., Brockhaus, M. and Nkem, J. 2008. Politique forestiere et utilisation des ressources au Burkina Faso, au Ghana et au Mali: Sont-elles compatible avec l'adaptation au changement climatique? *TroFCCA Brief No 1*. CIFOR, Bogor, Indonesie.

Kalame, F. B., Idinoba, Nkem, N. And Kanninen, M. 2008. Forest policies and resource governance in Burkina Faso, Ghana and Mali: Conflicting or consistent for adaptation to climate change? *Climate and Development* (in press)

Kalame, F.B., Nkem, J., Idinoba, M. and Kanninen, M. 2008. Matching national Forest policies and management practices for climate change adaptation

- in Burkina Faso and Ghana. *Mitigation and Adaptation Strategies for Global Change* (in press).
- Idinoba, M., Nkem, N., **Kalame, F.B.**, Niasse, M., Coulibaly, Y. and Niang-Diop, I. Water outlook in the West African Sahel under a changing climate. *Development Journal* (in Press).
- Downing, T.E, Sokona, Y., Amwata, D., Archer, E., Brockhaus, M., Butterfield, R., Callaway, J., Denton, F., Dorsouma, A.H., Flint, L., Hamza, M., Idinoba, M., **Kalame, F.B.**, Klein, R., Abou, M.N., Nkem, J., Nyong, T., Elasha, B.O, Shale, M., Smith, B., Tadross, M., Tas, A. and Taylor, A. 2008. Climate change adaptation in Africa: Scoping paper for expert group meeting on climate change adaptation for the African Ministerial Conference on Environment. Johannesburg, South Africa, 7-9 June 2008. UNEP, Nairobi.
- Kalame, F. B.** 2008. Forest ecosystem-linked sectors (water, forest, bio-energy) and climate change adaptation in West Africa: Current status of policies. *Center for International Forestry Research*, Ouagadougou, Burkina Faso (Unedited draft).
- Kalame, F. B.**, Luukkanen. O, Glover. E. K, & Elsiddig. E. A,. 2006. Drought-prone community-based natural resource management in Central Sudan. *Geological Society of America*.
http://gsa.confex.com/gsa/2006DRO/finalprogram/abstract_116845.htm
- Kalame, F. B.**, Luukkanen. O, Glover. E. K, & Elsiddig. E. A,. 2009. Forest utilisation and management in Kosti Province, Sudan by smallholder farmers (SHF). *Journal of Sustainable Forestry* 29(1-2):(Forthcoming).
- Kalame, F. B.**, Luukkanen. O, Glover. E. K, Elsiddig. E. & A Kanninen, M. 2008. Environmental Change and livelihood responses in Central Sudan. *Journal of Arid Environment* (submitted).
- Idinoba, M. 2006.** Climate change projections for West Africa. Background paper presented at the West African first meeting of partners of the Tropical Forests Climate Change Adaptation (TroFCCA) project June 7–8 2006, Ouagadougou , Burkina Faso
- Idinoba, M.**, Nkem, J., Kalame, F. B., Niasse, M., Coulibaly, Y. and Niang-Diop, I. 2008. Water Outlook in the West African under a changing climate. Accepted for publication in *Development journal*, Water special issue of 'Ecological politics'
- Gyampoh, B. A.**, Idinoba, M. and Amisah, S. 2008. Water Scarcity under a changing climate in Ghana: Options for livelihood adaptation: Water special issue of 'Development Journal' Accepted for 2008 publication
- Gyampoh, B. A.**, Idinoba, M., Nkem, J. and Amisah, S. 2008. Adapting river basins to Climate change and variability in West Africa. The case of Offin river basin in Ghana. Paper Submitted at the *Journal of Mitigation and Adaptation strategies for global change*
- Alkassoum, M.**, Coulibaly, Y., Idinoba, M., and Nkem, J. 2008. Analyse de la vulnérabilité de trois secteurs de développement basés sur la forêt au sud ouest du Burkina Faso dans le contexte du changement climatique.

Paper submitted to the International Journal of diversity in Organisation, communities and Nations, University of Moncton, Canada

Nkem, J., Santoso, H., Murdiyarso, D., Brockhaus, M., Kanninen, M. **2007**. Using tropical forest ecosystem goods and services for planning climate change adaptation with implications for food security and poverty reduction. *Sustainable and Technology (SAT) Journal* Vol.4 (1).

Apraku, G. B., Idinoba, M., **Nkem, J.** and Amisah. S. **2007**. Adapting watersheds to climate change and variability in West Africa. The case of Offin river Basin in Ghana. The Third International Conference on Climate and Water, Helsinki, Finland, 3-8th September, 2007 Available at <http://www.environment.fi/default.asp?contentid=251148&ian=en>

Nkem, J. **2006**. Livelihoods and tropical forests vulnerability and adaptation to climate change in West Africa. Background paper presented at the West African first meeting of partners of the Tropical Forests Climate Change Adaptation (TroFCCA) project June 7–8 **2006**, Ouagadougou, Burkina Faso.

EXPERIENCE HOSTING FELLOWS: Please indicate if your institution has hosted the following types of Fellows in the past:

- Post-doctoral fellows (**How many in past 5 years?**) **1**
- Doctoral fellows (**How many in past 5 years?**) **3**
- Policy fellows (**How many in past 5 years?**) **2**
- Teaching fellows (**How many in past 5 years?**)
- Other types of fellows (**How many in past 5 years?**) **3**

7. QUALIFICATIONS OF COLLABORATING INSTITUTIONS *NOT APPLICABLE*

INSTITUTIONAL CAPACITY: Please describe briefly the capacity of the institution(s) to support the Host Institution to provide visiting Fellows with valuable experiences that will enhance their capabilities for promoting climate change adaptation. (*Maximum of half page per collaborating institution*)

RELATIONSHIP WITH HOST INSTITUTION: Please describe briefly the existing relationship, if any, between the Host and Collaborating Institution(s) including past and current projects, partnerships, and collaborations (*maximum of 250 words per collaborating institution*)

8. SUPERVISOR/MENTOR TEAM

Please provide the information requested below for the specific individuals from the primary Host Institution and any Collaborating Institution(s) who would be available to supervise and mentor visiting Fellows **and attach a resume** for each:

- Name Johnson Nkem, Monica Idinoba, Maria Brockhaus, Fobissie kalame, Yacouba Coulibaly
- Title and institutional affiliation CIFOR
- Highest degree, discipline of degree, and name of conferring institution PhD
- Areas of expertise: Ecosystem Science, Policy, Climatology, Natural Resource Management, Economics
- Number and types of fellows supervised in past 5 years ~ 9

9. INTEREST IN APPLICANT REVIEW

In your proposal, please indicate if your institution would be interested to participate in the review of proposals from those applicants that express interest in basing their Fellowship experience at your institution. Yes

Submitting Your Proposal

If your institution intends to submit a proposal to participate in the program as a Host Institution, we ask that you please send a **letter of interest** to Ms. Clark Seipt (cseipt@agu.org) **no later than 6 June 2008**.

A completed proposal is requested by **24 June 2008**.

If you have questions or need additional information, please do not hesitate to contact Clark. We thank you for considering this invitation and hope to hear from you soon.

FOBISSIE BLES KALAME

Climate Change Policy Analyst
MSc Forest Ecology
CIFOR, 06 BP 9478 Ouagadougou 06
Burkina Faso

E-mail: f.kalame@cgiar.org
Tel- +226 7671 7236

Cameroon Nationality

EDUCATION

2004-2006: M.Sc (Hons) Forest Ecology, University of Helsinki, Finland

1997-2001: B.Sc (Hons) Environmental Sciences, University of Buea, Cameroon

1996: Advanced level Certificate (Biology, Chemistry, Physics, Mathematics, Further Mathematics)

WORKING EXPERIENCE

Aug. 2006 - Present

- **Countries:** Burkina Faso, Mali, and Ghana
- **Organization:** Center For International Forestry Research (CIFOR)
- **Project:** Tropical Forests and Climate Change Adaptation (TroFCCA)
- **Task:** Undertake policy relevant research on how impacts of climate change on water, bio-energy and forest products are likely to undermine or enhance specific development policies and programmes

2005 - 2006

- **Country:** Thailand, Finland
- **Organization:** European Union
- **Position:** Researcher
- **Project:** EU-Asia Link Programme on Forest Restoration and Rehabilitation in tsunami affected areas in Southeast Asia (FORRSA)
- **Task:** Rehabilitation of degraded landscapes in Krabi, Phi-phi island and Phuket in Thailand using GIS and socio-economic approaches

May 2005 – Sept. 2005

- **Country:** Sudan
- **Institutions:** University of Khartoum & Forest National Corporation (Sudan)
- **Position:** Researcher
- **Task:** Environmental changes and participatory (PRA) community forest management in Kosti Province, Sudan

PROFESSIONAL ACTIVITIES

- **Analysis of current policies of development sectors** (water, forest and bio-energy) in Burkina Faso, Ghana and Mali to assess how strategies, programmes and projects of these sectors can either reduce or increase vulnerability

- **Analyse tools, approaches and different entry points for mainstreaming** climate change into development policies, programmes and activities in Burkina Faso, Ghana and Mali
- **Carry out policy oriented participatory research** on natural resources management
- Make presentation in national and international workshops, conferences, meetings on **mainstreaming adaptation into development policies and strategies of different sectors**
- **Provide input during the revision of poverty reduction strategy in the water sector of Burkina Faso**
- **Member of UNEP-led Expert group on adaptation in Africa.** Contributor to “scoping paper on climate change adaptation in Africa, Prepared for the African Ministerial Conference on the Environment 7-9 June 2008 South Africa (April 2008)
- **Reviewer of international climate change journal: “Mitigation and Adaptation strategies for Global Change”**

PUBLICATIONS

- Kalame, F.B.**, Idinoba, M., Brockhaus, M. and Nkem, J. 2008. Politique forestiere et utilisation des ressources au Burkina Faso, au Ghana et au Mali: Sont-elles compatible avec l’adaptation au changement climatique? *TroFCCA Brief No 1*. CIFOR, Bogor, Indonesie.
- Kalame, F. B.**, Idinoba, Nkem, N. And Kanninen, M. 2008. Forest policies and resource governance in Burkina Faso, Ghana and Mali: Conflicting or consistent for adaptation to climate change? *Climate and Development* (in press)
- Kalame, F.B.**, Nkem, J., Idinoba, M. and Kanninen, M. 2008. Matching national Forest policies and management practices for climate change adaptation in Burkina Faso and Ghana. *Mitigation and Adaptation Strategies for Global Change* (in press).
- Idinoba, M., Nkem, N., **Kalame, F.B.**, Niassse, M., Coulibaly, Y. and Niang-Diop, I. Water outlook in the West African Sahel under a changing climate. *Development Journal* (in Press).
- Downing, T.E, Sokona, Y., Amwata, D., Archer, E., Brockhaus, M., Butterfield, R., Callaway, J., Denton, F., Dorsouma, A.H., Flint, L., Hamza, M., Idinoba, M., **Kalame, F.B.**, Klein, R., Abou, M.N., Nkem, J., Nyong, T., Elasha, B.O, Shale, M., Smith, B., Tadross, M., Tas, A. and Taylor, A. 2008. Climate change adaptation in Africa: Scoping paper for expert group meeting on climate change adaptation for the African Ministerial Conference on Environment. Johannesburg, South Africa, 7-9 June 2008. UNEP, Nairobi.
- Kalame, F. B.** 2008. Forest ecosystem-linked sectors (water, forest, bio-energy) and climate change adaptation in West Africa: Current status of policies. *Center for International Forestry Research*, Ouagadougou, Burkina Faso (Unedited draft).
- Kalame, F. B.**, Luukkanen. O, Glover. E. K, & Elsiddig. E. A., 2006. Drought-prone community-based natural resource management in Central Sudan. *Geological Society of America*. http://gsa.confex.com/gsa/2006DRO/finalprogram/abstract_116845.htm
- Kalame, F. B.**, Luukkanen. O, Glover. E. K, & Elsiddig. E. A., 2009. Forest utilisation and management in Kosti Province, Sudan by smallholder farmers (SHF). *Journal of Sustainable Forestry* 29(1-2):(Forthcoming).
- Kalame, F. B**, Luukkanen. O, Glover. E. K, Elsiddig. E. & A Kanninen, M. 2008. Environmental Change and livelihood responses in Central Sudan. *Journal of Arid Environment* (submitted).

Language

- English (Excellent writing, reading and speaking skills)
- French (Good reading, speaking and writing skills)

Public Speaking (Selected)

- Yale University (New Haven USA),
- Tyndall Climate Centre/Christian Aid (Burkina Faso)
- Geological Society of America, (Longmont USA)
- University of Helsinki (Finland),
- Uppsala University (Sweden),

International conferences and Workshops attended (Selected)

- Workshop on climate change adaptation in Africa, Organized by IIED, 12-15 April 2008, Dakar, Senegal
- Workshop on climate change and Development in Burkina Faso organized by Tyndall Climate Center and Christian Aid, 10-11 April 2008
- UNFCCC COP 13. 03-15 December 2007. Bali, Indonesia.
- International conference for reduction of vulnerability of natural, economic and social systems to climate change in West Africa. Organised by United Nation Economic Commission for Africa, CILSS, ACMAD and IRI, 24 - 27 January 2007. Ouagadougou, Burkina Faso
- Advancing Capacity to support Climate Change Adaptation (ACCCA) inception workshop. Organised by UNITAR and START, 16-20 January 2007. Ouagadougou, Burkina Faso
- Managing drought and water scarcity in vulnerable environments: Creating a roadmap for change in the United States. Organised by Geological Society of America, 18-20 September 2006. Longmont Colorado, USA.
- Conservation and agricultural frontier: Integrating forests and agriculture in the Tropics. Organised by Yale School of Forestry and Environmental Studies, 7-8 April 2006. New Haven, Connecticut, USA.
- Evaluation Workshop on Regional Initiative on World Environment and Desertification Control in Sahelian Africa (IREMLCD). Organised by the Permanent Interstate Committee for Drought Control in the Sahel (CILSS), 8-9 October 2007. Ouagadougou, Burkina Faso
- Workshop on the promotion of dialogue on the formation of a common body for sustainable forest management in West Africa. 12-23 November 2007. Conakry, Guinea.
- Workshop on "Vulnerability, Adaptation and Livelihoods: Enhancing Capacity to Mainstream Climate Change", 26-29 November. Accra, Ghana.

Computer skills

- Advanced internet knowledge
- Microsoft word, excel, power point
- Statistical Package for Social Sciences (SPSS)

Curriculum Vitae

Address

Dr. Maria Brockhaus
BP 9478 Ouagadougou 06
Burkina Faso
office tel: +226 503 047 42 (ext 31)
fax: +226 503 029 30
mobile: +226 76 309 019
E-mail: m.brockhaus@cgiar.org_

Short Profile

Economist and policy analyst in agricultural and forestry sciences; eight years of professional experience in particular at the interfaces research/development and economics/policy in anglo- and francophone countries in the Near East and West Africa; sound practical and theoretical knowledge in economics and policy of agriculture and forestry with interdisciplinary focus; highly motivated and flexible; strong soft skills.

Personal Data:

Date of Birth: October 7, 1970, Gronau-Epe, Germany
Citizenship: German
Family status: Single

Education:

09/2005	PhD in Agricultural Policy at the University of Giessen
since 2000	Postgraduate Studies at the Department of Agricultural Policy and Market Analysis at the University of Giessen
03/1999	Graduation as Diplom-Forstwissenschaftlerin (equivalent MSc.), Faculty of Forestry Sciences at the University of Göttingen
1993-99	University studies of Forestry Sciences at the University of Göttingen, specialization in Forestry Politics and Economics
07/1997	Graduation as Diplom-Agraringenieur (equivalent MSc.), Faculty of Agriculture at the University of Göttingen
1991-97	University studies of Agricultural Sciences at the University of Giessen and at the University of Göttingen, specialization in Agricultural Economics

Professional Experience:

- since 2006 Research Fellow at CIFOR, Indonesia and West Africa (Project: TroFCCA (Tropical Forests and Climate Change Adaptation), governance and adaptation, science-policy dialogue, policy network analysis, vulnerability assessment, and financing mechanisms for environmental services)
- since 2003 Researcher at the University of Giessen, Department of Agricultural Policy and Market Analysis (Project co-ordination: EU-CA-Project: “Networking to promote the sustainable production and marketing of indigenous vegetables through urban and peri-urban agriculture in sub-Saharan Africa”, policy research, supervisor of master students, administrative tasks)
- 2005 Consultancy at the FAO, Rome, Italy (Stakeholder Analysis, contribution to the Report on the State of the World’s Animal Genetic Resources)
- 2000-2003 Junior Researcher at the University of Giessen, Centre for Livestock Ecology (Co-ordinating and conducting a research project on conflict management and policy networks in Burkina Faso: EU-INCO-DC Project “Development of sustainable pastoral and agro-pastoral livelihood systems in West Africa”)
- 1999-2000 Assistant at the SKOPOS Market Research Institute, Cologne (Co-ordinating and conducting market and social research projects)
-

Ouagadougou, the 24 June 2008

Dr. Maria Brockhaus

CURRICULUM VITAE

MONICA IDINOBA

Center for International Forestry Research (CIFOR)

06 BP 9478 Ouagadougou, Burkina Faso

Tel: (226) 50 30 47 42 91 (Office), (226) 50 36 30 90 (Home)

Fax (226) 50 30 29 30. Email: m.idinoba@cgiar.org

Or monicaoye@yahoo.com

Academic Qualification

Ph.D. (Geography) University of Ibadan, Nigeria. 1999. **Major:** Climatology, Agroecological studies.

M.sc. (Geography) University of Ibadan, Nigeria. 1986.

B.A. (Geography) Ahmadu Bello University, Zaria. Nigeria. 1984.

WASC. Federal government college Kaduna. 1979

Key qualifications

Adequate Teaching and Research experience in the University, National and International Research Centers in Climate change/Vulnerability assessments/ adaptation/General Geography/Climatology/Agricultural Climatology/ Weather-crop modeling/Soil-water-plant relationship/Weather Information and GIS/Data base management/ Research projects supervision/Research Monitoring and Evaluation. A good knowledge of the tropical forest and regional agricultural productions and problems

Geographic experience

Widely traveled within and outside Nigeria. Multi-disciplinary teamwork/Experience in multi-cultural environment.

Other skills

Good communication and interpersonal skills/Leadership skills/Facilitation skills/ Good team player in multi-disciplinary teamwork/Excellent capacity builder, adequate computer skills (conversant with: PC Systems on Windows and DOS, MSWord, Excel/Quattro pro, PowerPoint, SAS, SPSS)

Awards

1. University of Ibadan graduate fellowship award 1985 to 1986
2. International Institute of Tropical Agriculture (IITA) Staff merit award for 1990 and 1991
3. International Institute of Tropical Agriculture Scholarship Award 1992 to 1995

Professional experiences

1] Duration December 2005 to date
Location Ouagadougou, Burkina Faso
Organization CIFOR (Center for International Forestry Research)
Position **Scientist - Tropical Forest Climate change Adaptation**
Job Description Review of existing scientific methods, protocols and tools for assessing vulnerability and climate change impacts on forest ecosystems, forest dependent livelihoods and key forest environmental services. Identification and develop of methodological options for the assessment of climate change impacts and vulnerability. Testing of methodological options in different case study areas in West Africa with the aim of validating the applicability, accuracy and cost of the methodologies and tools proposed. Develop and test the criteria and indicators for adaptive management of tropical forests to minimize vulnerability and the negative effects of climate change and climate variability. Participate in the international and regional scientific and policy dialogue on tropical forests and adaptation to climate change through publications, conferences and other initiatives. Supervise graduate student’s research.

Accomplishment to date:

- Engagement of stakeholders since the onset of the project
- Developed methods to assess vulnerability;
- Supervises 9 graduate students, 4 successfully graduated with good grades
- Successfully simulated and validated the PRECIS regional Climate change model in West Africa
- Member of CGIAR working group 1 (Visioning the future for CGIAR)

2] Duration March 2004 to November 2005
Location Benin City, Nigeria
Organization Rubber Research Institute of Nigeria
Position **Principal Research Officer**
Job Description Spatial Mapping of Rubber and Gum Arabic plantations in Nigeria. The impact of Climate change on Rubber and Gum Arabic production. Monitoring the role of Rubber trees as carbon sink to achieve emission reduction commitments

under the Kyoto protocol. Seasonal effect of weather on latex production. Light transmission and productivity within the rubber plantation.

3] Duration May 2000 to 2002
Location Bouake Cote d' Ivoire
Organization Systems Analysis Unit, West Africa Rice Development Association (WARDA)
Position **Research Fellow**
Description Collaborative studies on Environment related issues.
Develop a regional climate and soil database for West Africa in collaboration with NARES and ARI, Develop and apply systems approaches at a regional scale to determine the effect of soil and climate, Lead and manage experiments related to the effect of environment on crop growth and development, studies on Environmental pollution, Emission of green house gases from Rice fields and effects of global climate change on rice production.

4] Duration January 1995 to July 1999
Location Ibadan. Nigeria.
Organization Agro-Ecological studies unit, Research and crop Management Division (RCMD) International Institute of Tropical Agriculture (IITA)
Position **Research Fellow** -Work on the Ph.D. Thesis
Description Crop water requirement for maize, cowpea and groundnut for predicted model development across ecological zones using the irrigation scheduling information system, compared PE value from different empirical methods with lysimeter measured values, Developed crop coefficient for three crop species and establish relationship between crop development, water and energy use.

Accomplishments: Successful integration of fallow legume technologies into cereal based farming systems in central Nigeria.

5) Duration June 1987 to December 1994
Location Ibadan. Nigeria

Organization	International Institute of tropical agriculture (IITA)
Position	Research Associate
Description	<p>Conducted on and off-station trials to-validate crop predictive models for Maize and soybean productivity across agro-ecological zones in Nigeria. Studies on light transmission and crop productivity in crop communities.</p> <p>Build an integrated database on climatic, soil, & socio economic parameters for Agro-ecological characterization and for studies in population carrying capacity of natural resources.</p> <p>Management weather information for public domain (institute-wide and NARs partners) reference.</p> <p>Installation of weather monitoring equipment.</p> <p>Assist in training workshops and report writing. Trained several extension agents, NARs partners and students.</p> <p>Weather analysis and reporting (weekly, periodic and annual).</p> <p>Data collection (secondary and experimental data) and analyses for pilot research areas.</p> <p>Supervision of subordinates, students, workflow, and departmental resources.</p>
Accomplishments	Successful management of multidisciplinary research and training activities.

6) Duration	1985-1987
Location	Ibadan. Nigeria.
Organization	Geography Department, University off Ibadan, Nigeria. (Under Prof. J. Oguntoyinbo)
Position	Graduate Assistant
Description	<p>Taught Agricultural Climatology to first and second Year under-graduates students from faculty of agriculture and social sciences.</p> <p>Participated in curriculum development to introduce field and industrial practical training into undergraduate training in agroclimatology.</p>

Post-graduate courses

Supervisory Management Course (5 days, IITA, 1991)/Genstat 5.3 Appreciation course (5 days, IITA, 1993)/participatory Rural Appraisal Course (5 days IITA, 1993)/SAS Appreciation Course (5 days, IITA, 1994)/Advanced use of computers (4 days, 1994)/Facilitators course on Participatory Learning and Action Research-PLAR (14 days WARDA, 2002).

Selected Scientific Publications

Oladipo, E.O. and Mornu, M.E. 1985. Characteristics of thunderstorms in zaria, Nigeria. WEATHER Vol.40, #10, Pp.316-32

Jagtap, SS., Mornu, M.E. and Kang, B.T. 1993, Simulation of Growth, Development and Yield of Maize in the Transition zone of Nigeria. Agricultural Systems 41(1993) 215-229

Monica E. Idinoba, Adeniyi S. Gbadegesin and Philip A. Idinoba , 2002

Radiation interception and its efficiency for dry matter production in three crop species in the transitional humid zone of Nigeria. Agronomy Vol. 22 No. 3 (April 2002)

Monica E. Idinoba, Philip .A. Idinoba, Adenyii S. Gbadegesin and Shrikant. S. Jagtap (2004).Water use and seasonal Differences in Maize performance in the Transitional Humid zone of Nigeria. Journal of sustainable Agricultural science Vol 24, number 3.

Monica. E. Idinoba, Philip .A. Idinoba, Adeniyi, S. Gbadegesin and Shrikant. S. Jagtap (2008) Growth and evapotranspiration of groundnut (*Arachis hypogaea*) in a transitional humid zone off Nigeria. Published in the Africa journal of Agricultural Research Vol 3(5) 384-389, May 2008

Monica. E. Idinoba, M.C.S Wopereis and A. Sow: Effects of planting dates on Yield and water needs of some irrigated lowland rice varieties. A Shot communication paper: Agronomy (in press).

Monica Idinoba (2006). CLIMATE CHANGE PROJECTIONS FOR WEST AFRICA

Background paper presented at the West African first meeting of partners of the Tropical Forests Climate Change Adaptation (TroFCCA) project June 7–8 2006, Ouagadougou , Burkina Faso

Monica Idinoba, Johnson Nkem, Fobissie Kalame, Madiodio Niasse, Yacouba Coulibaly and Isabelle Niang-Diop (2008) Water Outlook in the West African under a changing climate. Accepted for publication in Development journal, Water special issue of ‘Ecological politics’

Benjamin Apraku Gyampoh, Monica Idinoba and Steve Amisah (2008) Water Scarcity under a changing climate in Ghana: Options for livelihood adaptation: Water special issue of ‘Development Journal’ Accepted for 2008 publication

Benjamin Gyampoh, Monica Idinoba, Johnson Nkem and Steven Amisah (2008)

Adapting river basins to Climate change and variability in West Africa. The case of Offin river basin in Ghana. Paper Submitted at the Journal of Mitigation and Adaptation strategies for global change

Fobissie B. Kalame, Monica Idinoba, Maria Brockhaus, and Johnson Nkem (2008) Forest Policies and forest resource flow in Ghana, Burkina Faso and Mali: Conflicting or consistent for adaptation to climate change? TroFCCA –CIFOR Policy brief number1

Malga Alkassoum, Yacouba Noel Coulibaly, Monica Idinoba and Johnson Nkem (2008) Analyse de la vulnérabilité de trois secteurs de développement basés sur la forêt au sud ouest du Burkina Faso dans le contexte du changement climatique. Paper submitted to the International Journal of diversity in Organisation, communities and Nations, University of Moncton, Canada

Fobissie B. Kalame, Monica Idinoba, Johnson Nkem and Markku Kanninen (2008)

Forest Policies and forest resource governance in Ghana, Burkina Faso and Mali: Conflicting or consistent for adaptation to climate change? Paper submitted to Climate and Development journal

Johnson Nkem, Monica Idinoba, Maria Brockhaus, Fobisse Kalame, Adriaan Tas (2008)

Adaptation to Climate Change in Africa: Synergies with biodiversity and forests: A Contribution to SEI key note message for the African Ministerial Conference on Environment 2008

Research Bulletins/ Working papers

Jagtap, S.S., O. Osagie, O. Bello, M. Mornu. 1992. IITA Weather Bulletin-1992.

IITA Oyo Road, PMB 5320, Ibadan, Nigeria.

Jagtap, S.S.,Mornu, J.O. Adetayo. 1991. IITA Weather Bulletinn-1991. IITA, Oyo

Road, PMB 5320, Ibadan, Nigeria.

Jagtap, S.S., M. Mornu. 1988. IITA Weather Bulletin- 1988. IITA, Oyo Road, PMB

5320, Ibadan, Nigeria.

Jagtap, S.S., M. Mornu, J.O. Adetayo. 1990. IITA Weather Bulletin-1990. IITA. Oyo

Road, PMB 5320, Ibadan, Nigeria.

Idinoba Monica, Yacouba Coulibaly and Johnson Nkem (2008) Step by step tips for Vulnerability

Assessment of forest goods and services . A working paper

Participation at International Conferences

M.E. Idinoba (2001). Carbon Emission from Used Automobiles imported into West Africa: Implication for Climate change and Sustainable Environment: In book of Abstracts: Challenges of a changing earth. Global change open conference, International Geosphere Biosphere Programme (IGBP), Amsterdam. 10-13 July.

M.E. Idinoba (2002), Challenges of rice cultivation on the female rice farmers in Cote d' Ivoire: Emphasis on effects of climatic variability and change. Book of Abstracts:111 International Congress on Women Work and Health. Stockholm, 2-5 June 2002.

M.E. Idinoba, P.A. Idinoba and Kanvaly (2003). Dependency on obsolete automobiles: Economic benefit or nuisance to urban dwellers. Book of Abstracts: 4th International Conference on Urban air quality-measurement, modelling and management: 25-28 March 2003 Charles University Prague, Czech Republic.

M.E. Idinoba (2006). Food Security and Climate Change: A Role for Women in Science and Technology. Conference Proceedings: Africa Regional Congress: Women in Science for Food and Nutrition Security in Africa, 3 – 7 July, 2006

M.E Idinoba (2006). Climate Change Projections for West Africa: Background paper for the West Africa Meeting of Partners of the Tropical Forests Climate Change Adaptation (TroFCCA) project 7 -8 June, 2006

Nkem J.N., Forner C., Idinoba M. and Coulibaly Y.N. 2006. Managing household Bioenergy esources for climate change adaptation in the Sahel. *Living with Climate Variability and Change: Understanding the Uncertainties and Managing the Risks.* July 17-21 2006. Espoo, Finland.

Idinoba, M.E., Forner C., Nkem J and Coulibaly Y, 2006. The Implications of Global Environmental Change on West African Indigenous Forest Health Services .Presented at the ESSP Open Science Conference, 9-12 November 2006. Beijing, China

Idinoba M.E, and Wopereis M 2006 Managing the West Africa Planting Calendar for Best Yields in Rice in Response to Global Environmental Changes. Presentation at the ESSP Open Science Conference, 9-12 November 2006. Beijing, China. Accepted for presented at the ESSP Open Science Conference, 9-12 November 2006. Beijing, China

Nkem J.N., Forner C., Idinoba M.E., Coulibaly Y.N. 2006. Linkages in Land Uses as Landscape Mosaics for Climate Change Adaptation in the West African Sahel. *Presented at the ESSP Open Science Conference, 9-12 November 2006. Beijing, China.*

Idinoba, M.E., Forner C., Nkem J and Coulibaly Y, 2006. The Implications of Global Environmental Change on West African Indigenous Forest Health Services. Presented at the ESSP Open Science Conference, 9-12 November 2006. Beijing, China

Monica Idinoba, Johnson Nkem and Yacouba Coulibaly 2007

Assessing the Vulnerability of Forest Ecosystems Goods and Services to Climate Change in West Africa. Paper presented at the International conference for reduction of vulnerability to climate change of Natural, Economic and social systems in West Africa, Ouagadougou 24 – 27 2007

Benjamin Gyampoh, Monica Idinoba, Johnson Nkem and Steven Amisah (2007)

ADAPTING WATERSHEDS TO CLIMATE CHANGE AND VARIABILITY IN WEST AFRICA. THE CASE OF OFFIN RIVER BASIN IN GHANA. Paper presented at *the Third International Conference on Climate and Water, Helsinki, Finland, 3-8th September, 2007*

Fobissie B. Kalame, Johnson Nkem, Monica Idinoba and Markku Kanninen

NATIONAL FOREST POLICIES AND THE PROVISIONING OF ECOSYSTEM GOODS AND SERVICES FOR ADAPTATION TO CLIMATE CHANGE IN WEST AFRICA

Climate Change: Science and Solutions 8th National Conference on Science, Policy and the Environment
January 16-18, 2008 Washington, DC

Recent Workshops attended

Future Climate Adaptation Challenges: Building Capacity for African Based Research, Nairobi – Kenya, 26th – 28th March 2006. Co-organized by the Institute of Development Studies (IDS), Action Aid International (AAI), as part of the Linking Climate Adaptation (LCA) project funded by Department for International Development (DFID)

West Africa PRECIS Workshop 18th – 22nd April 2006, Accra, Ghana, organized by the Hadley Centre UK Met Office and hosted by the Institute of mathematical sciences, University of Ghana, East-Legon, Accra.

Vulnerability, adaptation and livelihoods: Enhancing capacity to mainstream change 26-29 November 2007, Accra Ghana. Organized by IISD and CARE International.

Gender and Diversity associate Jamboree, 4-8 June, 2007, Patancheru, India

COP13 Meeting of the UNFCCC in Bali, Indonesia, 3-14 December 2007.

Gender and climate change adaptation training workshop, Dakar, Senegal 17 – 24 February 2008

The future of development of Burkina Faso from now to 2050 in the context of climate change organized by Christian aid and Tyndall 10-11 April 2008

Enhancing negotiation skills for women in Addis Ababa 4-6 March 2008

Thesis and Dissertation

Ph.D. Water Use Studies for Selected Crops in the Humid forest Savanna Transitional Zone of Nigeria. (1999).

- M.Sc.** Effects of Agro-climate Factors on Yield of some Selected Crops in Zaria. Nigeria. (1986).
- B.A.** Thunderstorm Activity over Zaira, Nigeria (1984).

Referees

1. **Prof. A. Gbadegesin**
Department of Geography
University of Ibadan
Ibadan
Tel: 2348023387976, Email: ngbadegesin@yahoo.com

2. **Francis Nwilene (PhD)**
WARDA Liason Office,
IITA, P.M.B 5320,
Ibadan, Nigeria
Tel: 2348034339601, Email: f.nwilene@cgiar.org

3. **Kehinde O. Makinde, PhD**
Alliance for Green Revolution in Africa (AGRA)
Forum for Agricultural Research in Africa
PMB CT 173, Accra, Ghana
Tel: +233-245-219-905
Email: kmakinde@progra.org; kmakinde@fara-africa.org

JOHNSON NDI NKEM

Center for International Forestry Research (CIFOR)

P. O. Box 0113 BOCBD

Bogor 16000

Indonesia

Tel: +62 (251) 622 622 (Office)

+62 (251) 313 421 (Home)

Fax: +62 (251) 622 100.

Email: jnkem@cgiar.org

1. EDUCATION

Ph.D Ecosystem Management 2002 University of New England, Australia

M Sc. Soil Science 1986 University of Ibadan, Nigeria

B Sc. Hons (Agric & Forestry) 1985 University of Ibadan, Nigeria

2. PROFESSIONAL EXPERIENCES

Dec 2006 – Present Project Manager, Tropical Forests and Climate Change Adaptation (TroFCCA), Centre for International Forestry Research (CIFOR) Bogor, Indonesia

2005- 2006 Regional Coordinator (West Africa), Tropical Forest Climate Change Adaptation (TroFCCA), Centre for International Forestry Research (CIFOR) 06 BP 9478 Ouagadougou, Burkina Faso

2003–2005 Research Scientist, Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, CO 80523 USA

1997–2003 Research Assistant, Department of Ecosystem Management, University of New England, Armidale, NSW 2350 Australia

1990-1997 Research Associate, International Institute of Tropical Agriculture (IITA) Cameroon.

1988-1990 Quality Control Assistant, Del Monte Fresh Fruit Inc. Cameroon

1987-1988 Senior Field Assistant Cameroon Development Corporation

ACADEMIC AWARDS

2002 Keith & Dorothy Mackay, Travel Grant Award. UNE, Australia

2000 Travel Scholarship Award. UNEPA UNE, Australia

1999 International Postgraduate Scholarship Award. UNE, Australia

1999 Research Scholarship Award, (UNERS) UNE, Australia

1997 Joint Japan/World Bank Graduate Scholarship Award (JJ/WBGSP)

1983-86 National Scholarship Award for University Education. Ministry of High Education and Scientific Research (MESERES), Cameroon.

PROFESSIONAL MEMBERSHIP

Soil Science Society of America (1992, 2003, 2004, 2005, 2006)

Ecological Society of America (2005, 2006)

Canadian Soil Science Society (2004, 2005)

Society of Nematology (2004, 2005, 2006)

Australian Soil Science Society (2001, 2002, 2003)

Soil Ecology Society (2003, 2004, 2005, 2006)

3. SELECTED SCIENTIFIC PUBLICATIONS

Kalame, F.B., Idinoba, M., Brockhaus, M., **Nkem, J.** 2008. Forest policies and forest resource flow in Ghana, Burkina Faso and Mali. Conflicting or consistent for adaptation to climate change? CIFOR Brief – TroFCCA Brief No. 1.

- Idinoba, I., **Nkem, J.**, Kalame, I.; Niasse, M.; Coulibaly, Y., Niang-Diop, I. **2008**. Water outlook in the West African Sahel under a changing climate. *Development* 51, no.3. (In Press).
- Ayres, E., **Nkem, J.N.**, Diana H. Wall, D.H., Adams, B.J., Barret, J.E., Broos, E.J., Parsons, A.N., Powers, L.E., Breana L. Simmons, B.L., Ross A. Virginia, R.A. **2008**. Effects of human trampling on populations of soil fauna in McMurdo Dry Valleys, Antarctica. *Conservation Biology* (In Press).
- Nkem, J.**, Santoso, H., Murdiyarto, D., Brockhaus, M., Kanninen, M. **2007**. Using tropical forest ecosystem goods and services for planning climate change adaptation with implications for food security and poverty reduction. *Sustainable and Technology (SAT) Journal* Vol.4 (1).
- Apraku, G. B., Idinoba, M., **Nkem, J.** and Amisah. S. **2007**. Adapting watersheds to climate change and variability in West Africa. The case of Offin river Basin in Ghana. The Third International Conference on Climate and Water, Helsinki, Finland, 3-8th September, 2007 Available at <http://www.environment.fi/default.asp?contentid=251148&lan=en>
- Nkem, J.** **2006**. Livelihoods and tropical forests vulnerability and adaptation to climate change in West Africa. Background paper presented at the West African first meeting of partners of the Tropical Forests Climate Change Adaptation (TroFCCA) project June 7–8 **2006**, Ouagadougou, Burkina Faso.
- Hauser, S., Norgrove, L. and **Nkem, J.N.** **2006**. G roundnut/Maize/Cassava intercrop yield response to fallow age, cropping frequency and crop plant density on an Ultisol in Southern Cameroon. *Biological Agriculture and Horticulture*, 2006 Vol. 24, pp. 275–292.
- Barrett, J.E., Virginia, R.A., Hopkins, D.W., Aislabie, J., Bamforth, S., Bargagli, R., Bockheim, J.G., Campbell, I.B., Lyons, W.B., Moorehead, D.L., **Nkem, J.N.**, Sletten, R.S., Steltzer, H., Wall, D.H. and Wallrstein, M.D. **2006**. Terrestrial processes of Victoria Land, Antarctica. *Soil Biology and Biochemistry Special Issue* (In Press).
- Nkem, J.N.**, R.A. Virginia, J.E. Barrett, D.H. Wall and Li, G. **2006**. Salt tolerance and survival thresholds for two species of Antarctic soil nematodes. *Polar Biology* 29: 643-651.
- Nkem, J.N.**, Wall, D.H., Virginia, R.A., Barrett, J.E., Broos, E.J., Porazinska, D.L. and Adams, B.J. **2006**. Wind dispersal of soil invertebrates in the McMurdo Dry Valleys, Antarctica. *Polar Biology* 29: 346-352.
- Norgrove, L., **Nkem, J.N.**, and Hauser, S. **2003**. Separating the agronomic effects of burning and biomass removal in a typical slash and burn rotation system in southern Cameroon. *Biological Agriculture and Horticulture* 21(4), 367-381.
- Norgrove, L., **Nkem, J.N.**, and Hauser, S. **2003**. Effects of residue management on earthworm cast production after *Chromolaena odorata* short fallow in the humid tropics. *Pedobiologia* 47 (5-6) 807-810.
- Nkem, J.N.**, Lobry de Bruyn, L.A., Grant, C., and Hulugalle, N.R. **2002**. Changes in invertebrates population over the growing cycle of a N-fertilised wheat crop in rotations with cotton in a grey Vertisol. *Applied Soil Ecology* 20, 67-74.
- Nkem, J.N.**, Lobry de Bruyn, L.A., Grant, C., and Hulugalle, N.R. **2000**. The impact of ant bioturbation and foraging activities on surrounding soil properties. *Pedobiologia* 44, 609-621.
- Hauser, S., **Ndi, J.N.** and Hulugalle, N.R. **2000**. Yield of maize/cassava intercrops grown with hedgerows of three multipurpose trees on an acid ultisol of Cameroon. *Agroforestry Systems* 49, 111-122.
- Hauser, S., **Ndi, J.N.** and Hulugalle, N.R. **2000**. Performance of maize/cassava intercrops in tilled and no-till *Senna spectabilis* alley cropping on an Ultisol in Southern Cameroon. *Agroforestry Systems* 49, 177-188.
- Hulugalle, N.R. and **Ndi, J.N.** **1994**. Changes in soil properties of a newly-cleared Ultisol due to establishment of hedgerow species in alley cropping systems. *Journal of Agricultural Science Cambridge* 122, 435-44.
- Hulugalle, N.R. and **Ndi, J.N.** **1993**. Soil Properties of Termite Mounds under different land uses in a Typic Kandiudult of Southern Cameroon. *Agriculture, Ecosystems and Environment* 43, 69-78.
- Hulugalle, N.R. and **Ndi, J.N.** **1993**. Effects of No-Tillage and Alley Cropping on soil properties and yields in a Typic Kandiudult of Southern Cameroon. *Agroforestry Systems* 22, 207-220.

Hulugalle, N.R. and **Ndi, J.N** 1993. Contribution factors to soil spatial variability in an Ultisol: Retention of living trees in-situ following land clearing. Communications in Soil Science & Plant Analysis 24 (11&12), 1409-1419.

SCIENTIFIC MEETINGS

Kalame, F. B., **Nkem, J.**, Idinoba, M. and Kanninen, M. 2008. National forest policies and the provisioning of ecosystem goods and services for adaptation to climate change in West Africa. Climate Change: Science and Solutions 8th National Conference on Science, Policy and the Environment January 16-18, 2008 Washington, DC.

Nkem, J. 2007. Forest platform for climate change adaptation in West Africa. International Conference on the reduction of vulnerability to climate change of natural, economic and social systems in West Africa. Ouagadougou, Burkina Faso 24-27 January 2007, organised by United Nations Economic Commission for Africa (ECA).

Idinoba M., **Nkem J.N.**, and Coulibaly Y.N. 2007. Assessing the vulnerability of forest ecosystem goods and services to climate change in West Africa. The International conference for reduction of vulnerability to Climate Change of Natural, Economic and Social Systems in West Africa, 24th – 29th January 2007, Ouagadougou, Burkina Faso organised by United Nations Economic Commission for Africa (ECA).

Nkem, J. 2007. Forest for synergy in global change responses in the Central African Region. Central Africa, Cameroon and Global Change Conference, 6-8 June 2007, Yaoundé, Cameroon.

Nkem J., Idinoba M. and Coulibaly Y.N. 2007. Integrating landscape patterns in climate change adaptation planning in the West African Sahel. International Union of Biological Sciences, May 8-13 2007, Washington, DC.

Marks, E., **Nkem J.**, Kokou, K., Balle, M., Solano, D. & Sebastià, M. T. 2007. Managing for conservation of biodiversity, soil carbon storage and the provision of other ecosystem services along climatic gradients in West Africa. Global Carbon Project Conference, Kruger National Park, South Africa, August 2007.

Idinoba M., **Nkem J.N.**, and Coulibaly Y.N. 2006. The implications of global environmental change on West African indigenous forest health services. Earth System Science Partnership (ESSP) Open Science Conference 9-12 November 2006. Beijing, China

Nkem J.N., Forner C., Idinoba M. and Coulibaly Y.N. 2006. Linkages in land uses as landscape mosaics for climate change adaptation in the West African Sahel. Earth System Science Partnership (ESSP) Open Science Conference 9-12 November 2006. Beijing, China

Nkem J.N., Forner C., Idinoba M. and Coulibaly Y.N. 2006. Managing household bioenergy resources for climate change adaptation in the Sahel. Living with Climate Variability and Change: Understanding the Uncertainties and Managing the Risks. July 17-21 2006. Espoo, Finland.

Nkem J.N., Forner C., Idinoba M., Coulibaly Y.N. 2006. Linkages in Land Uses as Landscape Mosaics for Climate Change Adaptation in the West African Sahel. Accepted for presentation at the ESSP Open Science Conference, 9-12 November 2006. Beijing, China.

Nkem, J.N., D.H. Wall, R.A. Virginia, J.E. Barrett, and B.J. Adams. 2005. Comparative study of different sources of soil moisture addition and their impacts on soil biodiversity in the McMurdo Dry Valleys, Antarctica. 90th Annual Meeting of the Ecological Society of America (ESA), and the 1X International Congress of Ecology (INTECOL). August 7-12, 2005 Montreal, Canada.

Nkem, J.N., D.H. Wall, R.A. Virginia, E.J. Broos, J.E. Barrett, and B.J. Adams. A.N. Parsons. 2005. Evaluating Salinity thresholds for soil nematode survival: Implications for community establishment in the McMurdo Dry Valleys, Antarctica. A Synthesis of Soil Biodiversity and Ecosystem Functioning in Victoria Land: An NSF Sponsored Workshop, April 21-23, 2005; Jekyll Island, GA, USA.

- Broos, E.J., D.H. Wall, R.A. Virginia, **J.N. Nkem**, L.E. Powers, and B.J. Adams. **2005**. Trampling effects on soil invertebrate communities. A Synthesis of Soil Biodiversity and Ecosystem Functioning in Victoria Land: An NSF Sponsored Workshop, April 21-23, 2005; Jekyll Island, GA, USA.
- Nkem, J.N.**, D.H. Wall, R.A. Virginia, J.E. Barrett, and B.J. Adams. **2005**. Changes in soil invertebrate habitat from moisture addition from snow fences at Taylor Valley, Antarctica. The McMurdo LTER Meeting July 13-16 2005; Portland State University, Oregon, USA.
- Nkem, J.N.**, D.H. Wall, R.A. Virginia, J.E. Barrett, and B.J. Adams. **2005**. Groundwater seeps in a Cold Desert Ecosystem: Community changes in soil invertebrates in the McMurdo Dry Valleys. Soil Ecology Society 10th Biennial International Conference, May 22-25 2005, Argonne National Laboratory, Illinois USA.
- Lobry de Bruyn, L.A. and **Nkem, J.N.** **2004**. Soil health ramifications: The interaction between beneficial soil biota and land use intensification in the Liverpool Plains, NSW. New Directions in Agroecology: Productivity and Sustainability. La Trobe University, Mildura, Victoria, August 29th to September 04th 2004 Australia.
- Nkem, J.N.**, D.H. Wall, R.A. Virginia, E.J. Broos, J.E. Barrett, and B.J. Adams. A.N. Parsons. **2004**. Response of soil nematodes to moisture addition from snowfences in Taylor Valley, Antarctica. Presentation at the Society of Nematology Meeting, August 7-11, at Estes Park, Colorado, USA.
- Broos, E.J., D.H. Wall, R.A. Virginia, **J.N. Nkem**, L.E. Powers, and B.J. Adams. **2004**. Human disturbance and nematode decline in Antarctic Dry Valley Soil. Presentation at the Society of Nematology Meeting, August 7-11, at Estes Park, Colorado, USA.
- Nkem J.N.**, Lobry de Bruyn, L.A., King, K., and Grant, C. **2002**. Soil microbial activities as indication of soil health response to agricultural intensification practices on black cracking clay soils. The 17th World Congress of Soil Science Bangkok, August 14-21, Thailand.
- Hulugalle, N.R., **Nkem, J.N.**, Lobry de Bruyn, L.A. **2002**. Soil properties, invertebrate population and N cycling during the wheat phase of irrigated wheat-cotton rotations in a Vertisol. ASSSI Future Soils Conference, 2-6 December 2002, Perth, Australia.
- Nkem, J.N.**, Lobry de Bruyn, L.A. **2000**. The impact of management practices and soil macrofauna composition on pore size distribution in vertisol soil. NZSSS/ASSSI Soil 2000 Conference Lincoln University, Canterbury, December 01-08, New Zealand.
- Nkem, J.N.**, Lobry de Bruyn, L.A., Grant, C., and Hulugalle, N.R. **1999**. The potential of soil macrofauna activities in reducing soil degradation: the case of mound-building activities of ants (*Iridomyrmex greensladei*). Global Change and Terrestrial Ecosystems (GCTE) Focus 3 ("Food and Forestry: Global Change and Global Challenges") 1999 Conference and Workshop, Reading, September 20-24, United Kingdom.

Yacouba Noël COULIBALY

MSc. in environmental sciences
06 BP 9478 Ouagadougou 06
Burkina Faso

Email: yacoubacoulibaly2002@yahoo.fr / y.coulibaly@cgiar.org

Phone: +226 78 87 34 75

Date of birth: 25th December 1979 in Bobo Dioulasso, Burkina Faso

Nationality: Burkinabè (Burkina Faso)

DEGREES

2003-2005: Master of Science in plant physiology (DEA), University Cheikh Anta Diop, Faculty of Science, Dakar, Senegal

2001-2003: Master 1 in environmental sciences (MST-PE), University Hassan II of Mohammadia, Faculty of Sciences and Technologies, Mohammadia, Morocco

1999-2001: University Certificate of Scientific Studies (CUES) in Biology and Geology, University Ibn Tofail of Kenitra, Faculty of Sciences, Morocco

1999: Advanced level certificate at LMB, Banfora, Burkina Faso

PROFESSIONAL EXPERIENCES

Since 17th February 2006 to date: Research Assistant with Tropical Forest and Climate Change Adaptation (TroFCCA) project under the Center for International Forestry Research (CIFOR), West Africa regional office, Ouagadougou, Burkina Faso.

Duties: To (a) assist in evaluating the impacts of climate change and climate variability on Tropical Forest ecosystems within West Africa and in compiling a database both previous and current regional climate change related activities in the region (b) assemble a bibliography of relevant literature and review materials on climate variability, change, adaptation studies, tools and methodologies used in the region (c) assist in village surveys to understand indigenous perceptions of climate change and vegetation changes, and in identifying important goods and services of national relevance to climate change adaptation (d) assist in meetings and in the organisation of such

meetings. (e) participate in writing scientific papers, reports, workshop presentation (f) assist in field samplings, data collection and analyses.

September 2005-January 2006: Permanent Interstates Committee for Drought and Desertification Control in the Sahel (CILSS), Burkina Faso.

Duty: situation analysis and perspectives of CILSS' interventions in the field of natural resources management in sahelian countries; how to increase the visibility and performance of CILSS' interventions in the countries so that it becomes a centre of excellence in the field of natural resource management visibility in terms of natural resources management in West Africa.

December 2003- May 2005: Centre for Regional Studies on Plant Adaptation Improvement to drought (CERAAS), Senegal.

Duty: identify criteria and indicators of Sorghum roots system at seedling stage and physiological parameters in water deficit conditions, which allow them to have good vigor and to tolerate later drought conditions.

July 2002-August 2002: Station for waste water treatment by lagunage, Morocco

Duty: Control the sanitary performance of the station by doing physical, chemical and microbiological analyses of the water since the entry of waste water in the station up to the last stage of the treatment.

May 2003-June 2003: station for treatment of water polluted by petroleum, Morocco

Duty: Control and understand the performance of the station by doing physical, chemical and microbiological analysis of the water since the entry of waste water in the station up to the last stage of the treatment system.

COMPETENCES

- (a) Good understanding of UNFCCC ongoing activities and implementation process in West Africa particularly in sahelian countries
- (b) Good understanding of scientific processes and debate on Climate Change activities (Adaptation and NAPA processes, Mitigation and Reduced Emissions from Deforestation and forest Degradation processes)
- (c) Knowledge in water models used for projection in West Africa
- (d) Good understanding in forestry and agroforestry landscapes for environmental services and rural communities' incomes improvement
- (e) Good skill in water management and sanitation
- (f) Good skill in Environmental Impacts Studies
- (g) Good skill in soil conservation and restoration of degraded soils
- (h) Ecotoxicology and pollutant transfer

CONFERENCES AND TRAINING ATTENDED

Conferences

1. International Conference on « Youth and desertification », Bamako (Mali) from 4 to 6 September 2006. This Conference was organized by UNCCD and the Malian government
2. Symposium/workshop on the role of science and research in combating desertification in semi-arid sub-Saharan Africa, Niamey (Niger) from 23 to 25 September 2006. This Conference was organized by ICRISAT-DMP-UNCCD and Oasis
3. First Kick off Meeting of Partners for our Tropical Forest and Climate Change Adaptation (TroFCCA) project West Africa, from 7 to 8 June 2006, Ouagadougou (Burkina Faso). This conference was organized by Center for International Forestry Research.

Training and workshops attended

1. International training on forest certification and sustainable forest management organized by Sweden International Development Agency (SIDA). Session 1 and 2 held in Sweden from 7th to 25th May 2007 and Cameroon in November 2007.
2. Training in root system characterisation for annual plants, organized by regional centre for studies on plant adaptation improvement to droughts (Ceraas) in collaboration with international research centre for agriculture development (Cirad), April 2004, Thiès (Senegal).
3. Training in plant ecophysiology organized by regional centre for studies on plant adaptation improvement to droughts (Ceraas) in collaboration with international research centre for agriculture development (Cirad), December 2003, Thiès (Senegal).
4. Three weeks Training in English at Centre for Languages and Professional Studies (CELPS), Accra, Ghana from 14th August to 13th September 2007
5. Advancing Capacity to Support Climate Change Adaptation (ACCCA) project Inception Workshop, from 17 to 20 January 2007, Ouagadougou (Burkina Faso). This conference was organized by United Nations Institute for Training And Research and Center for International Forestry Research.
6. Training in enterprise creation in Morocco organised by the chamber of

commerce of Kenitra

PUBLICATIONS

1. Coulibaly, Y. 2006. Evaluating the sensitivity and drought tolerance of sorghum (*Sorghum bicolor* (L.) Moench) base on rooting and seedling vigor criteria. Paper presented at Earth System Science Partnership (ESSP) Open Science Conference for poster presentation, Beijing, China, 9-12 November 2006
2. Coulibaly, Y, Johnson, N and Idinoba, M. 2007. Why and how mainstreaming adaptation into national development policies. Paper presented at Regional conference on climate change organised by CILSS for oral presentation, Ouagadougou, Burkina Faso, 24-27 January 2007
3. Coulibaly, Y, Johnson, N and Idinoba M. 2007. Forest as an entry point for adaptation to climate change in West Africa. Paper presented at Regional Conference on Climate Change for oral presentation, Cotonou, Benin, 6-9 June 2007
4. Coulibaly, Y. 2006. Desertification, climate change and Forest in the Sahel. Background paper for the West African first meeting of partners of the Tropical Forests and Climate Change Adaptation (TROFCCA) Project, 7-8 June 2006, Ouagadougou, Burkina Faso.
5. Idinoba, M, Coulibaly, Y et Johnson, N. Guideline for climate change vulnerability assessment of forest ecosystem services in adaptation of water in West Africa. Paper accepted to be presented at Umea conference on forest and adaptation
6. Idinoba, M., Nkem, Kalame, F., Niasse, M., Coulibaly, Y and Niang-Diop, I. water outlook in the West African Sahel under a changing climate. Development Journal (In press)

SCHOLARSHIPS

1. Scholarship from Burkina Faso government from 1999 to 2003 to continue my university studies in Morocco
2. Scholarship from DAAD under Centre for Regional Studies on Plant Adaptation Improvement to Drought (CERAAS) to undertake my masters studies in Senegal

COMPUTER KNOWLEDGE

(a) PowerPoint, (b) Word, (c) Excel, (d) Outlook, (e) Internet and (f) Statistical Analyses System (SAS Assist)

LANGUAGES

French: Very good speaking and writing skills

English: good writing and reading skills and basic speaking skill

REFERENCES

Dr Alkassoum Maiga

Sociologue, Enseignant chercheur
Université de Ouagadougou
UFR-SH/Département de Sociologie
01 BP 2340 Ouagadougou 01
Burkina Faso
Phone: +226 70 26 26 52

Email : kasmaig@yahoo.fr

Dr Nesson Désiré COULIBALY

Chercheur à l'Institut National de l'Environnement
et de Recherches Agricoles (INERA)
Département des Productions forestières
Ouagadougou
Burkina Faso
Phone : +226 70739899

Dr Edwige BOTONI/LIEHOUN

Expert in Natural Resources Management-in charge of UNCCD
Permanent Interstates Committee for Droughts and Desertification
Control in the Sahel (CILSS)
Executive Secretariat
03 BP 7049 Ouagadougou
Phone: +226 50 37 41 25

Email: edwige.botoni@cilss.bf