



# COLLOQUE 2007

*2<sup>nd</sup> announcement and Call for papers*



## SOIL AND SUSTAINABLE DEVELOPMENT IN INTERTROPICAL AFRICA REGION

**Douala, 21 - 23 November 2007**

### PARTNERS

- Scientific Societies (Gsaf, ASSS, European Union, Geosciences, AFES, GRES-Cameroon)
- Communal organisations (CUD, CUE, CRE)
- NGOs (SNV Cameroon Ecology)
- Kenya Airways
- Agro-industrial companies (ADER, SOCAPALM, FERME SUISSE)
- Book Publishers : STD, Presses Universitaires , ....



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UFR STRM/UFR BIOSCIENCES



- IRAD-  
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# SOIL AND SUSTAINABLE DEVELOPMENT

## I- PRESENTATION OF COLLOQUIUM: SCIENTIFIC INTEREST AND DEVELOPMENT SUPPORT

In African countries, high land-use pressure on naturally fragile lands leads to soil deterioration and compels people to move from one land portion to another for their agro-pastoral activities. This traditional shifting cultivation system is characterised by low productivity, but has high potentials for land conservation if the fallow period is long enough. However, this system can no longer guarantee food security. The poor utilisation of soils on the environment is doubtlessly enormous and is still unknown or unevaluated by the actors and the decision makers in land use planning. No reliable impact assessment has been done at local and regional scale..

Tropical zone represents 40% of emerged land and its ecosystem largely contributes to the hydro-bio-geo-chemical functioning of the planet. However, only few decision makers, in their land use planning process take into consideration the four functions services provided by soil: (i) biological, (ii) agricultural, (iii) elements transfer and filter; (iv) building material and support. Based on the preponderant role of soil in our environment and its impact on human life, it has become unavoidable to carry out an inventory of acquired knowledge on tropical soils. A sustainable management of soils is a pledge for food security, poverty reduction and improved life quality in Africa. Therefore, all actors involved in the chain of decision making related to local land or territorial management should integrate soil problems in their approach to ensure a sustainable development of natural resources and a human well-being. It is for this reason that, African scientists supported by their colleagues from the North have decided to organise a colloquium under the theme: Soil and sustainable development in tropical Africa.

The objectives of this colloquium are:

- To make a state-of-art of scientific knowledge acquired on soils of tropical and intertropical zones of Africa;
- To demonstrate the importance of bio-geosciences to public decision makers, in order to sensitise them on the value of preserving soil quality;
- To strengthen cooperation and exchanges between different scientific disciplines dealing with soil;
- To encourage an excellent exchange and supervision of young scientists;
- To promote the creation of associations of soil conservation concerns, involving scientist, NGOs and the public powers.
- To contribute in general, to a synergetic knowledge gathering on soils for a sound management of tropical African ecosystems.

This colloquium also aims at presenting research results useful for optimising the use of soils as well as the use of new methods, equipments and technologies for the finer studies of soils; this involves modelling techniques and the use of GIS and remote sensing tools.

## II- SUB-THEMES

The following sub-themes will be treated during this colloquium:

**1 – Soil and sustainable management of the environment :** Knowledge on rock weathering and pedogenesis processes are the basis of all projects involving environmental management. Water-soil-plant exchanges, the relationship with the substratum, the impact of pollution on these ecosystems are useful indicators of the development. This sub-theme will enable participants to debate on all these processes; grouping pluri-disciplinary specialists (Soil Scientists, Geologists, Geochemists, Geophysicists, Biologists, etc...) on topics such as rock weathering, chronology of processes, bio-indicators, etc. New analytical techniques are offered to scientists who can now apprehend these processes at a finer scale, with more details. We expect these technologies and their applications in the intertropical zone be divulged and discussed.

**2 - Soil and socio-economic development, modelling and decision making support:** Following an increasing industrial development, diverse agricultural and urban policies, and increasing demographic growth in Africa, soils in most countries in tropical and intertropical zones are being used in an anarchic manner. It leads numerous problems: abusive deforestation, agricultural land degradation, anarchic constructions. Decision making is one of the components of land use planning and management processes. Economic development is an indicator of a good management. Modelling strategies and techniques should allow discussion on interdisciplinary approach, centred on some very important development questions such as soil and water resources, soils and agro-forestry production, soils and urban development. This second sub-theme will allow politicians, scientists, decision makers and managers, to discuss on subjects related to territorial management, mining regulations and environmental laws, management of agricultural lands and water resources, in order to reconcile scientific and political constraints.

### Important dates and deadlines:

**15<sup>th</sup> July : Deadline for abstract submission**

**10<sup>th</sup> Septembre : Abstract acceptance notification**

### III- VENUE AND DATE OF THE COLLOQUIUM

The colloquium will take place in Douala from the 21<sup>st</sup> to 23<sup>rd</sup> November 2007

### IV- Who are participants?

Expected participants are university teachers, researchers, international workers, local authorities, communal leaders, managers, etc. interested in sustainable development

### V- REGISTRATION FEES

University teachers/ Researchers: 50 000 CFA

Students: 25 000 CFA

Others: 100 000 CFA

Currency in Cameroon is XAF. The exchange rates is EURO 1= 655,99XAF

The registration fee covers the book of abstracts and CDROM, coffee break, lunch, closing party and transport within Douala

### VI- RESULTS EXPECTED

Publication of a special issue of an international journal, following the reviewing process by the scientific committee.

Edition of a working document for managers and decision makers use, from the colloquium, with the objective to transcribe into management and decision making tools, scientific outputs acquired during the colloquium.

Creation of associations of soil interest such as Cameroon Association of Soil Science (CASS) and a soil interest group (SIG) in collaboration with public powers.

### VII- USEFUL INFORMATIONS

Accommodation in Douala

Numerous hotels exist in Douala, with price varying between 30€ and 120€ per night. A bus will insure the link between the participants' hotels and the conference place.

Visa

A visa is required for most countries for entering Cameroon, except some few countries such as Nigeria, Mali, etc... Cameroon embassies and consulates are available in most countries. The organizing committee may help in facilitating the issue of the visa if need be.

### VIII- STRUCTURE AND SCIENTIFIC COMMITTEE

To achieve the objectives of the colloquium, work will be carried out through plenary sessions, posters sessions and open-air sessions.

- Plenary **sessions** will be animated by two chairmen scientists. Scientific research results will be presented in these sessions.

- Open-air **sessions** will be animated by a scientist or a non scientist for broadening of the scope of discussion and exchanges of ideas among participants, especially between scientists, public powers and other managers. The reports of these sessions will be prepared by students under the supervision of their lecturers.

The authors are invited to submit their communication for oral or poster presentation.

#### A- Organising committee

##### Coordination

**Honorary President:** Pr. Bruno BEKOLO EBE, Rector of the University of Douala

**President:** Pr Nicole Claire NDOKO (University of Douala)

**Vice Presidents :** Pr AKA KOUME (University of Cocody, Ivory Cost); Pr Ambroise EDOU MINKO (Gabon) ; Dr Simon ZOK (IRAD, Cameroon) ; Dr François RIVIERE (IRD-Cameroon) ; Pr Blaise MUKOKO (University of Douala)

**General Secretary:**

**Secretary :** Pr Paul BILONG et Pr Henri Désiré MODI KOKO BEBEY (University of Douala), Dr Zachée BOLI BABOULE (GRES, Cameroon)

**Treasurer:** Lobe Tanga (University of Douala)

##### Executive committee

**Executive President:** Pr. Georges Emmanuel EKODECK (University of Douala)

**Executive secretary** Dr Jacques ETAME (University Doula)

Dr Jean-Baptiste ETTIEN, (University Ivory Cost)

Dr Martine GERARD, (IRD, France)

**Social Events:** Dr Marie-Joseph NTAMAK NIDA, Dr Béatrice KECTCHEMEN TANDIA

**Communication :** Constant MIMBOU AYONG

**Public Relations :** Roger Bertrand EYONG

## B- International Scientific Committee

**Presidents:** Pr Maurice TCHUENTE, Pr Georges Emmanuel EKODECK

### Membres

ASSA (Univ. Ivory Cost)  
René Joly ASSAKO (Univ. Cameroon)  
Louis max AYINA OHANDJA (Univ. Cameroon)  
Paul BILONG (Univ. Cameroun)  
Dieudonné BITOM OYONO (Univ. Cameroon)  
Jean Louis BOEGLIN (IRD, France)  
Zachée BOLI BABOULE (Réseau GRES, Cameroun)  
François CHABAUX (Univ. Strasbourg, France)  
Cheikh BECAYE GAYE (Univ. Sénégal)  
Stephan DOUMBE BILLE (Univ. Lyon III, France)  
Ambroise EDOU MINKO (Univ. Gabon)  
Jacques ETAME (Univ. Cameroon)  
Jean-Baptiste ETTIEN (Univ. Ivory Cost)  
Nicolas FLORSCH (UPMC, France)  
Emmanuel FRITSCH (IRD, France)  
Martine GERARD (IRD, France)  
Véronique K. KABEYENE BEYALA (Univ. Cameroon)  
Catherine KELLER (Univ. Paul Cézanne – Cerege)  
Roland LEDUC (Univ. Sherbrooke, Canada)  
Jean-Dominique MEUNIER (CNRS - Cerege)  
Henri Désiré MODI KOKO BEBEY (Univ. Cameroon)  
Olivier MONDA (IRD, France)  
Blaise MUKOKO (Univ. Cameroon)  
Martin NDENDE (Univ. Nantes, France)  
Tarcissius NYOBE (IRAD, Cameroon)  
Néréé ONGUENE (IRAD, Cameroon)  
Janvier ONANA (Univ. Cameroon)  
Maurice PAGEL (Univ. Paris 11, France)  
Jean Claude PARISOT (IRD/CEREGE, France)  
Roland POSS (IRD, France)  
Henri ROBAIN (IRD, France)  
Georges STOOPS (Univ. Gent, Belgium)  
TANO YAO (Univ. Ivory Cost)  
Marie Thérèse UM (Univ. Cameroon)  
Martin YEMEFACK (IRAD, Cameroon)  
Rose YONGUE FOUATEU (Univ. Cameroon)

## IX- CALL FOR PAPERS

**Languages:** The conference will be in English and French

### **Guidelines for abstract**

An abstract, prepared following the guidelines described below, should be exclusively submitted by email to: [etame.jacques@yahoo.fr](mailto:etame.jacques@yahoo.fr) or [S2d2007@yahoo.fr](mailto:S2d2007@yahoo.fr) or [S2d2007@u-douala.cm](mailto:S2d2007@u-douala.cm)

A registration form should also be duly completed and sent to the same address. Please indicate the preferred sub-theme and session on the registration form

**The deadline for abstract submission is July 15, 2007**

***Writing your abstract (see attached file for abstract template)***

Full text typed in English or French, using Word software, Arial font

**3 pages maximum**

The papers will be printed in a volume which pages measure 21 x 29,7cm (A4)

The place available for text, table and figure is 16 x 25cm

Margins : Left 2,5 cm top : 2,5 cm; Right 2,5cm Bottom: 2 cm

Formulas and Units

International standard units should be used.

## X- COMMISSIONS ET SESSIONS

### **A- Commission A : Soil and sustainable management of the environment**

**President** : Paul Bilong (Cameroun)

**Members** : Ambroise Edou Minko (Gabon), Véronique Kamgang Kabeyene Beyala, Rose Yongue Fouateu, Dieudonné Bitom Oyono, Bruno Nyeck, Jacques Etame (Cameroon), Abdoul Aziz-Tandia, (Sénégal)

#### **1- Session 1 : Weathering, mineralogy and micromorphology**

Chairman: Jacques Etamé (Univ. Cameroon)

Co- Chairman: Martine Gerard (IRD, France)

#### **2- Session 2 : Geochemistry and soil quality**

Chairman : Véronique Kamgang Kabeyene Beyala (Univ. Cameroon)

Co- Chairman : Jean Louis Boeglin (IRD, France)

#### **3- Session 3 : Soil physics**

Chairman: Henri Robain (IRD, France)

Co- Chairman : Nyobé Tarcissius (IRAD, Cameroon)

**4- Session 4 : Biology, microbiology and biodiversity of soils**

Chairman : Aka Koumé (Univ. Ivory Cost)

Co- Chairman: Tano Yao (Univ. Ivory Cost)

**5- Session 5 : Degradation of soil and water resources**

Chairman : Boli Baboulé Zachée (Réseau GRES, Cameroun)

Co- Chairman : Abdoul Aziz-Tandia, (Sénégal)

**6- Session 6 : Urban impacts on soils and water**

Chairman: Roland Leduc (Univ. Canada)

Co- Chairman Achille Nougba (Univ. Cameroun)

**B- Commission 2 : Soil and socio-economic development, modelling and decision making support****President** : Georges Emmanuel Ekodeck**Members** : Aka Koumé (Ivory Cost), Marie Thérèse Um, Janvier Onana (Univ.Cameroon) ; Jean-Baptiste Ettien, Angui (Univ. Ivory Cost) ; Martin Yemefack (IRAD,Cameroon)**1- Session 7: Decentralisation, mining regulation and environmental law**

Chairman : Henri Désiré Modi Koko Bebey (Univ. Cameroon)

Co- Chairman : Janvier Onana (Univ.Cameroon)

**2- Session 8:Management of agricultural lands and water resources for food security**

Chairman : Blaise Mukoko (Univ. Cameroon)

Co- Chairman: Jean-Baptiste Ettien (Univ. Ivory Cost)

**3- Session 9 : Soil, Civil and Rural engineering**

Chairman : Louis Max Ayina Ohandja (Univ. Cameroon)

Co- Chairman : Dr Yao Kouamé (Ecole Nat. T. P., Ivory Cost)

**4- Session 10 : Soil and mining resources**

Chairman : Rose Yongue-Fouateu (Univ.Cameroon)

Co- Chairman: Ferdinand Ngon Ngon (Univ.Cameroon)

**5- Session 11: Soil, Plant and Water**

Chairman : Yao Kouamé (Univ. Ivory Cost)

Co- Chairman : Ndongo Din (Univ. Cameroon)

**6- Session 12 : Modelling and decision making support**

Chairman t : René Joly Assako (Univ. Cameroon)

Co- Chairman : Olivier Monda (IRD, France)

Programme	
<b>Wednesday 21 November</b>	
08:00 - 09:30	Inscription of participants
09:30 - 10:00	Opening ceremony
10:00 - 11:30	<b>Plenary session :</b> - <i>Oral Presentations : sessions 1 &amp; 2</i>
11:30 - 12:30	Coffee break - <b>Poster sessions 1 and 2</b>
12:30 - 14:30	Lunch
14:30 - 16:00	<b>Plenary session :</b> - <i>Oral Presentations : sessions 6 &amp; 7</i>
16:00 - 16:30	Coffee break - <b>Poster sessions 6 and 7</b>
16:30 - 18:00	<b>Plenary session :</b> - <i>Oral Presentations : sessions 3 &amp; 8</i>
<b>Thursday 22 November</b>	
08:30 - 10:00	<b>Plenary session :</b> - <i>Oral Presentations : sessions 4 &amp; 9</i>
10:00 - 10:30	Coffee/tea break - <b>Poster sessions 3 and 4,</b>
10:30 - 12:30	<b>Open-air spaces :</b> - <i>Presentation by managers</i> : Rehabilitation of a polluted soil by ALUCAM company
12:30 - 14:30	Lunch
14:30 - 16:30	<b>Open-air spaces :</b> - <i>Presentation by managers</i> : Communal soil and waste management
16:30 - 17:00	Coffee break - <b>Poster sessions 8 and 9</b>
17:00 - 18:30	<b>Plenary sessions :</b> - <i>Oral Presentations : sessions 5 &amp; 10</i>
20:00	Official Diner Party
<b>Friday 23 November</b>	
08:30 - 10:00	<b>Plenary session :</b> - <i>Oral Presentations: session 11</i>
10:00 - 10:30	Coffee break - <b>Poster sessions 5, 10 and 11</b>
10:30 - 12:00	<b>Restitution of open-air sessions</b>
12:00 - 14:00	Lunch
14:00 - 16:00	Closing ceremony
<b>Saturday 24 november</b>	
08:30 - 16:00	Excursion (facultative)