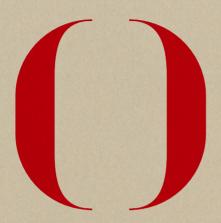




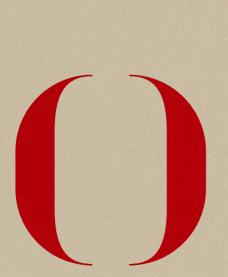
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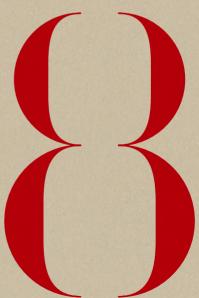




UNESCO / KEIZO OBUCHI Research Fellowships Programme

UNESCO/Japan Young Researchers' Fellowship Programme







The Cover is printed on an uncoated paper, certified FSC (Forest Stewardship Council for Well Managed Forests), and ECF (Elemental Chlorine Free).





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SELECTED CANDIDATES FROM 2001 TO 2008

PREFACEBY IRINA BOKOVA



Keizo Obuchi was an inspired thinker and a strong leader, whose passion for the world made him true humanist. He worked tirelessly to take forward the solidarity that binds all people together. The UNESCO/Keizo Obuchi Research Fellowships Programme exemplifies his vision

Fellowships are vital for UNESCO's mission. They are a way to develop and share knowledge, to nurture new resources and skills, and to build capacity. The UNESCO/Keizo Obuchi Research Fellowships Programme (UNESCO/Japan Young Researchers' Fellowship Programme) reaches all of these goals.

This booklet is the fifth in a series that feature the results of the Programme. Since 2001, two hundred fellows have benefitted from fellowships, coming from 87 Member States. One hundred former fellows were surveyed in an effort to evaluate the Programme. The results are excellent. Eighty one percent said that they had received a promotion after the fellowship. Ninety two percent declared the fellowship to have had a substantial impact on their career. Sixty four percent of these former fellows are now professors at universities. Forty eight percent obtained their PhDs after the fellowship.

This fellowship programme has fostered research and shared knowledge between people across the world. It has strengthened ties and it has changed many individual lives. In the words of our Constitutions, this is a great example of UNESCO's goal to foster "intellectual and moral solidarity" as the basis for lasting peace.

I express my gratitude to the Government of Japan for its generous financial assistance, without which this initiative would not have been possible. I hope this will continue for many years to come.

IRINA BOKOVA
DIRECTOR-GENERAL OF UNESCO

Ining Bourg

THE UNESCO / KEIZO OBUCHI RESEARCH FELLOWSHIPS PROGRAMME

UNESCO/JAPAN YOUNG RESEARCHERS' FELLOWSHIP PROGRAMME

Who was Keizo Obuchi?

Mr Keizo Obuchi, former Prime Minister of Japan, was born on 25 June 1937 in Nakanojo, Japan and sadly passed away on 14 May 2000 at the age of 62. Son of a politician, he resolved to become a politician himself.

Soft-spoken and charismatic, he was known as a man of modesty and integrity. He built a reputation as an exemplary official and was a particularly adept negotiator. Member of Japan's Diet (Parliament) for over thirty years, he served as Japan's Foreign Minister in 1997 until he was elected Prime Minister in July 1998. Mr Obuchi was known in the international arena for his commitment to development issues and his resolve to put Japan at the forefront of countries involved in consolidating the efforts of the international community to further progress in the social and economic development of humankind.

Why this programme?

The Government of Japan has committed itself to cooperating with UNESCO in enhancing capacity-building of human resources in developing countries. It is in that framework, under a Funds-in-Trust Project and the UNESCO Co-Sponsored Fellowships Programme, that the Government of Japan has, since 2001, generously financed 20 research fellowships each year, in memory of the late Mr Keizo Obuchi. With a view to keeping alive and honouring the spirit of former Prime Minister Obuchi and his belief in "people building the next era", these fellowships are awarded to deserving candidates from developing countries, especially the least developed countries (LDCs), who were eager to undertake research on one or more of the topics.

The aim of the fellowships is to support innovative and imaginative postgraduate research in the areas of development to which former Prime Minister Obuchi was committed and which coincide with areas of particular interest to UNESCO, namely:

- Environment
- Intercultural Dialogue
- Information and Communication Technologies
- Peaceful Conflict Resolution

Who is eligible?

Applicants must meet the following criteria:

- The respective National Commission for UNESCO of the invited developing Member State must endorse any candidature submitted for consideration (applications from individuals cannot be entertained).
- Candidates under this Programme must be **post-graduate researchers**, already holding either a M.A. or M.Sc. and wishing to pursue research work outside their own country (preferably in their own region), with a view to enhancing knowledge in one of the four specific fields listed earlier.
- Candidates must be no more than 40 years of age.
- Candidates must be persons of high intellectual promise who may be expected to make significant contributions to their country upon their return.
- The selected fellow must carry out the research studies outside of their own country under the auspices of an academic supervisor in a host institution.

Who selects the beneficiaries?

Selection Committees made of experts in the four areas listed above make recommendations for the final decision of the Director-General of UNESCO. Applications are judged on the basis of the merit of each application and its pertinence to the UNESCO/Keizo Obuchi Research Fellowships Programme.

What did they receive and what they will receive?

For the 2001, 2002, 2003 and 2004 cycles, each selected beneficiary was awarded US \$7,500 to cover the costs of undertaking research study abroad. Due to the success of the programme, the Japanese authorities have decided to increase the maximum amount of the fellowship, which will be determined according to the duration and place of research (between US \$6,000 and US \$10,000). The maximum amount may not exceed US \$10,000.

What are the expected results of this programme?

To date, the UNESCO/Keizo Obuchi Research Fellowships Programme has contributed to:

- Strengthening UNESCO's capacity-building activities.
- $\mathbf{Upgrading}$ of knowledge of state-of-the-art developments.
- Facilitating the transfer and sharing of knowledge, the exchange of information, and technical cooperation among developing countries (TCDC).

- Supporting innovation, research and information in a number of fields of the Organization's competence.
- **Promoting** the forging of links and contacts.
- **Ensuring** a "multiplier effect" as knowledge acquired abroad is brought home.
- Fostering friendship, international understanding and peace among the beneficiaries and in the host countries.

Why this booklet?

The purpose of this booklet is to provide a brief overview of the results of the research undertaken by the 40 fellowship beneficiaries selected for the 2007 and 2008 cycles:

- Who are they?
- What research did they do?
- What did they achieve?

CELEBRATING FIVE SUCCESSFUL CYCLES

OF UNESCO/KEIZO OBUCHI RESEARCH FELLOWSHIPS PROGRAMME



From left to right: Ms Takako Matsuura, Ms Chizuko Obuchi, Mr Koïchiro Matsuura and His Exc. Mr Tadamichi Yamamoto

On 8 June 2009, the former Director-General of UNESCO, Koïchiro Matsuura, paid tribute to the former Prime Minister of Japan, the late Keizo Obuchi, at a special ceremony organized at UNESCO Headquarters to celebrate five successful cycles of the UNESCO/Keizo Obuchi Research Fellowships Programme, which has been supported by the Government of Japan. He was joined at the ceremony by Mr Obuchi's widow, Ms Chizuko Obuchi, His Excellency Mr Tadamichi Yamamoto, Ambassador, Permanent Delegate of Japan to UNESCO and 16 fellows of this programme.



Mr Koïchiro Matsuura

During the ceremony, Mr Matsuura shared his personal memory of Mr Obuchi, "the great statesman and humanist" who died in May 2000 "at the height of his distinguished career". He added: "As a public figure, Keizo Obuchi will always be remembered for his faith in the power of people to shape the world and forge a better future... He believed that the key to success in every country was to consolidate the capacity-building of the nation's human resources, especially by investing resources in the younger generation. Nine years after his death, Keizo Obuchi's beliefs are more important today than ever His priorities remain ours: reforming education systems with a view to developing what he called the "education of the heart": achieving gender equality, safeguarding the global environment; preventing disaster by enhancing human capacity for crisis management and making the twenty-first century "a century of peace through dialogue and peaceful conflict resolution".



Ms Chizuko Obuchi

In her remarks, Ms Obuchi recalled that the development of human capacities had constituted a key element in her husband's vision of the world. She was thus very happy to see the seeds of that vision flourish through the UNESCO/Keizo Obuchi Programme and extended her best wishes to the fellows.

Following a brief presentation by each of the 16 beneficiaries – two for each year from 2001 to 2008 inclusive – Ms Florence Nzisa Nswilli Muinde of Kenya and Mr Timur Dadabaev of Uzbekistan took the floor on behalf of all the recipients, in English and Japanese, respectively, to thank the Japanese Government for its financial support for this programme, which facilitates the professional development of a new generation of research leaders in developing countries and countries in transition. They expressed the hope that the programme would continue so that others

could benefit from a similar expression of confidence in their capacities and pledged to uphold the legacy of the programme through their research by always "thinking and building peace".

At the end of the ceremony, the former Director-General and Ms Obuchi offered to each of the participating fellows the UNESCO sixtieth anniversary medal, which bears the motto "thinking and building peace".



Petya Stefanova Orozova Bulgaria (2007)



Noel Sanou, Burkina Faso (2003)



Eloisa Blanca Mussat, Argentina (2005)



Phal Des, Cambodia (2007)



Aune Valk, Estonia (2003)



Juan D. Velásquez Silva, Chile (2004)



Liz Azzi, Lebanon (2005)



Raúl Loayza-Muro, Peru (2008)



Florence N.N. Muinde, Kenya (2002)



Ahmad Moustafa Moussa, Egypt (2002)



Mamadou Soumaré, Senegal (2006)



Azime Tezer Kemer, Turkey (2004)



Timur Dadabaev, Uzbekistan (2001)



Amal Hudhud, Auton. Palest. Territ. (2001)



Mohammed A. Al-Ghobar, Yemen (2008)



Elena Evgenievna Ten, Kyrgyzstan (2006)

CELEBRATING FIVE SUCCESSFUL CYCLES

FELLOWS' SPEECH



Florence Nzisa Nswilli Muinde, Kenya (English Speech)



Timur Dadabaev, Uzbekistan (Japanese Speech)

"It is a great honour and privilege for us, UNESCO/Keizo Obuchi research fellows, to participate in this ceremony that celebrates five successful cycles of the research fellowships programme – in memory of Keizo Obuchi, the Former Prime Minister of Japan.

Indeed, the programme has been a great contribution to human capacity development in different areas and regions of the developing world and countries in transition. Since its inception in 2001, the programme has every year awarded 20 fellowships according to merit and priority, while at the same time ensuring gender parity. We thank the Government of Japan and the Director-General of UNESCO for facilitating the implementation of the programme. The UNESCO/Keizo Obuchi Research Fellowships have enabled fellows from disadvantaged countries to undertake research in areas related to the challenges

of our times: environment, intercultural dialogue, information and communication technologies and peaceful conflict resolution. This has enabled fellows to be active voices in the global debate regarding these critical concerns of modern times. The various projects undertaken by fellows from different cultures and regions bring out the distinctive features of the social, cultural, political, economic and organizational characteristics of their environment. As experienced by people in their localities, any meaningful human development initiatives and innovations need to be grounded in the aspirations and needs of the people.

Keizo Obuchi and UNESCO thus calls on the fellows gathered here today and other beneficiaries elsewhere in the world to think globally while acting locally to improve the lives of local people. We believe that is what Mr Keizo Obuchi wanted us to do and to be, for the greater well-being of humanity.

Adding diversity to research in various areas to which Keizo Obuchi devoted his life – which are also areas of interest to UNESCO - the Programme has given rise to a new generation of researchers in all concerned research areas and across developing countries and countries in transition. It has helped fellows to complete their research projects, obtain Ph.D. degrees or undertake post-doctoral research programmes. This has also enriched their professional lives and at the same time promotes the legacy of Keizo Obuchi, who emphasized the importance of research and studying across borders and cultures. We hope that these groups may establish a network to share experiences as they work to address these real challenges of our times. Finally, we, UNESCO/Keizo Obuchi fellows,

believe strongly in Mr Obuchi's motto
"thinking and building peace" across the
world and promise to do our best to meet the
expectations of UNESCO and Keizo Obuchi,
who invest in us to provide leadership in
specific research fields. Nevertheless, we
would like to emphasize sustainability of
the fellowships even as we move into the last
phase of the programme. Nothing illustrates
this necessity better than the Japanese saying
"keizoku wa chikara nari" – strength is in

continuing. The journey towards the realization of Keizo Obuchi's dream is just starting. One UNESCO programme coordinator said that this was the best programme they had ever facilitated. Let's think of strategies to keep the dream alive. Thank you very much from all of us, from across the world and its cultures! Long live the spirit of Keizo Obuchi!"

FLORENCE NZISA NSWILLI MUINDE AND TIMUR DADABAEV



Sixteen fellows in the presence of Mr Tadamichi Yamamoto, Ambassador, Permanent Delegate of Japan to UNESCO; Mr Obuchi's widow, Ms Chizuko Obuchi; and Koïchiro Matsuura, former Director-General





WHERE DID THE FELLOWS GO? 2007

FELLOWS'
COUNTRY / TERRITORY

COUNTRY / TERRITORY

OF STUDY

ENVIRONMENT

Bangladesh Malaysia
 Bulgaria United Kingdom
 Côte d'Ivoire Morocco
 Cuba Belgium
 El Salvador Mexico

6. Morocco France

7. Niger France

8. Palestinian United Kingdom Autonomous

Territories

9. Sudan United Kingdom

INTERCULTURAL DIALOGUE

10. Benin Togo

11. India United States of America

2. Lebanon France

13. Lithuania United States of America

INFORMATION & COMMUNICATION TECHNOLOGIES

14. Cambodia Germany

15. Ethiopia South Africa

16. Pakistan Malaysia

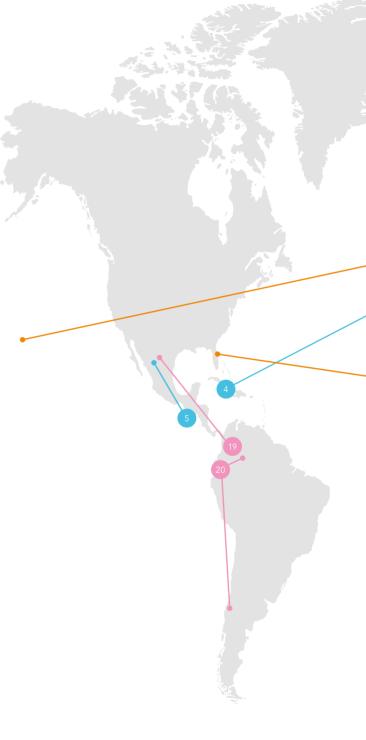
7. Serbia Switzerland

18. Slovakia Spain

PEACEFUL CONFLICT RESOLUTION

19. Colombia Mexico

20. Ecuador Chile and Colombia









P.30 AMINUL HAQUE BANGLADESH

Improving the environmental management of a rice irrigation scheme under limited water supply



P.34 KOUASSI JOSEPH KOUAKOU CÔTE D'IVOIRE

Study of trace metals (Cd, Pb, Zn, Cu, Ni) in the soil, water and crops of urban agricultural sites in Côte d'Ivoire: the city of Abidjan



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PETYA STEFANOVA
OROZOVA
BULGARIA

Ecology, molecular epidemiology and pathogenic features of aeromonads



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CATALINA EVELYN

GARDELLA GARCÍA

EL SALVADOR

Detection of *Entamoeba* histolytica and Flavivirus Vectors in Irrigation and Recreational Waters



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ANAR JANET

RODRÍGUEZ CHEANG

CUBA

Assessment of heavy metal pollution and bioaccumulation in fresh water ecosystems in Havana City, Cuba



P.40 **HAAD BESBOUSSE MOROCCO**

Preparation and characterization of the complexing membranes of metal ions



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CHECK AHMED SOULEYMANE

Assessment of biological diversity and hydrological and environmental processes in the Middle Niger: a case study of the Dargol, Sirba and Goroubi watersheds



P.44

AHMED IBRAHIM ABU ISMAIEL

PALESTINIAN AUTONOMOUS TERRITORIES

Preparation and Characterization of Ion-selective Electrodes for the Determination of Some Water Pollutants in Groundwater



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EIMAN MOHAMED FADUL BASHIR SUDAN

Water Supply for Low-**Income Rural Communities**





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Vodun Culture-Interculturality and Globalization: some suggestions for UNESCO and escholars



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CHINMAYEE SATPATHY

INDIA

Santal & Seminole: A Colmparative Cross Cultural Study



FIELD OF STUDY

INTERCULTURAL DIALOGUE



FIELD OF STUDY
INFORMATION
& COMMUNICATION

TECHNOLOGIES



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PAULINE MOUHANNA
LEBANON

Lebanese migration to France: a factor of cultural integration or an obstacle to pluralism? Franco-Lebanese cultural associations in Île-de-France (Greater Paris)



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PHAL DES
CAMBODIA

System Support for Mobile and Distributed Multimedia Computing



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DAWIT TIBEBU

TIRUNEH

ETHIOPIA

Integration of Information and Communication Technology into the Teaching and learning process at Bahir Dar University



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AIVARAS STEPUKONIS
LITHUANIA

One World – One Philosophy? Global Perspectives in the Contemporary Humanities.



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AMJAD REHMAN KHAN PAKISTAN

Intelligent Knowledge Acquisition and Extraction Techniques for Neural Expert Systems Based on Machine Learning Techniques



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DORAH YANETH
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COLOMBIA

Violence against Women in Mexico



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Influence of Television on Children and Youth



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HERNÁN ANTONIO
MOREANO URIGÜEN
ECUADOR

Borders: vulnerabilities, conflicts and human security





WHERE DID THE FELLOWS GO? 2008

FELLOWS'

COUNTRY / TERRITORY

COUNTRY / TERRITORY OF STUDY

ENVIRONMENT

1. Burkina Faso France

2. Côte d'Ivoire France

Lao People's People's Republic of China
 Democratic Republic

4. Peru The Netherlands

5. Sri Lanka Australia and Indonesia

6. Uruguay The Netherlands

7. Yemen United States of America

INTERCULTURAL DIALOGUE

8. People's Republic United States of America of China

9. Hungary Russian Federation

10. Senegal France

11. Tunisia France

INFORMATION & COMMUNICATION TECHNOLOGIES

12. Cambodia United States of America

13. Lebanon France

14. Romania France

15. Uganda Finland

PEACEFUL CONFLICT RESOLUTION

16. Bangladesh...... Nepal

7. Colombia Brazil

18. Mali..... Senegal

Palestinian Austria
 Autonomous
 Territories

20. Venezuela..... Spain







FIELD OF STUDY

ENVIRONMENT



P.50

OLIVIER GNANKINE
BURKINA FASO

Molecular characterization of Bemisia Tabaci (Homoptera: aleyrodidae) for a durable management



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VINCENT TCHIMOU
ASSOMA
CÔTE D'IVOIRE

The contribution of radar remote sensing (ENVISAT) and Geographic Information Systems (GIS) to the mapping of hydrogeological and mining potentialities. Implication in the management of water resources in the southern coastal region of Côte d'Ivoire"



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HEMMAVANH
LAO PEOPLE'S
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Study on driving forces and Land conservation strategy in Laos



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Analysis of field data for applying a novel biotic index based on native macroinvertebrates to evaluate water quality and environmental changes in Peruvian high-altitude streams



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DONA HEMALI NANDANA MUNASINGHE SRI LANKA

Comparative phylogenic study of Genus Macrobrachium in Sri Lanka, South and Southeast Asian region: Hints for biodiversity conservation



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CECILIA TAMARA
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Evaluation of Water Quality in Nebraska Using Watershed Modeling a case of study proposal in Nebraska State, USA. Nitrate and ammonia concentrations in Groundwater from Shallow Wells



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IBRAHIMA DIOUF

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FIELD OF STUDY INFORMATION & COMMUNICATION TECHNOLOGIES



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The pedagogical electronic devices conceived for the online tutoring of face-to-face academic courses: the case of Lebanon



A public service broadcasting Model for Developing Countries: the case of Cambodia



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CRISTEA-BRUNEL
ROMANIA

The Region of Provence-Alpes-Côte d'Azur: a dynamic player in the strategies and uses of information and communication technologies



P.104 JOSEPH KIZITO BADA UGANDA

Design and evaluation of Web-based HIV/AIDS education and counseling support system in Uganda



FIELD OF STUDY

PEACEFUL CONFLICT RESOLUTION



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Post-conflict peace-building in Nepal: the Role of the civil society



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The peasant organization in Colombia, difficulties and possibilities of democratic participation, from a comparative perspective with the MST (movement of Landless workers) in Brazil



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BAKARY CAMARA

Changes in property systems in Mali: Case of the south Mali cotton basin: Office of the Niger zone and CMDT region of Koutiala



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MUAYAD YAHYAPALESTINIAN
AUTONOMOUS

The role of the European Union (EU) in enhancing democracy and development in Palestine since the Oslo accords: form, objectives, impacts



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ALICIA FERLINDA NUÑEZ PAREDES VENEZUELA

Descriptive study of how social agents perceive unaccompanied immigrant minors

FIELD OF STUDY 2007-2008

ENVIRONMENT

"The growing network of water-related centres under the auspices of UNESCO is a clear sign that Member States have heard our message – that human and institutional capacity-building for improved management of water resources must be a major priority, especially in the broader context of the environment and climate change."

IRINA BOKOVA

DIRECTOR-GENERAL OF UNESCO

General debate on Item 4, 184th session of the Executive Board, (UNESCO, 8 April 2010).

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2007

YEAR 2008

FELLOWS

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ANAR JANET
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CUBA

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EL SALVADOR

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NIGER

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PALESTINIAN AUTONOMOUS TERRITORIES

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CHANHDA HEMMAVANH

LAO PEOPLE'S

DEMOCRATIC REPUBLIC

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RAÚL AUGU<mark>STO</mark> LOAYZA MURO

PFRU

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DONA HEMALI NANDANA MUNANSINGHE

SRI LANKA

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CECILIA TAMARA
AVELLÁN HAMPE

URUGUAY

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MOHAMMED

ABDULLAH AL-GHOBAR

YEMEN

YEAR

2007

FELLOW

AMINUL HAQUE

BENEFICIARY COUNTRY

BANGLADESH

COUNTRY OF STUDY

MALAYSIA

PLACE OF RESEARCH

Universiti Putra Malaysia (Putra University, Malaysia) Faculty of Engineering, Serdang Darul Ehsan, Malaysia.

RESEARCH UNDERTAKEN

From 8 January to 7 September 2008.

ABOUT FELLOW

Born on 1 January 1967 in Kishoreganj, Bangladesh.

LAST DEGREE OBTAINED

Universiti Putra Malaysia (Putra University, Malaysia): PhD in Water Resources Engineering (9 December 2004).

SCHOLARLY WORK AND PUBLICATIONS

Water Distribution and Water Use Assessment in Rice Cropping Systems, Songklanakarin Journal of Science and Technology, Thailand (2006).

Improved Integrated Water Management for Agriculture of the Upper East region of Ghana, Ghana Journal of Agricultural Science, Ghana (2006).

Modeling Water Balance Components for Rice Cultivation Under Gravity Irrigation in Malaysia, Journal of the Institution of Engineers, Malaysia (2006).

In-time rice Water Management Under Limited Water Supply, Pertanika Journal of Science and Technology, Malaysia (2006).



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Improving the environmental management of a rice irrigation scheme with a limited water supply

The rivers in Malaysia play an important role in many aspects of life, including economic, cultural and religious dimensions. Rivers are the main sources of water for agricultural purposes. The Seberang Perai Rice Irrigation Scheme in the state of Penang is one of the eight main rice-growing areas in Malaysia. This study was carried out to improve the environmental management plan in order to ensure that environmental concerns are built into the operation and monitoring activities of the rice irrigation scheme. Rainfall and weather data for 20 years were analysed to identify periods of excess water or water shortages throughout the rice-growing season. The long-term rainfall records indicate that maximum rainfall occurs in August, September, October and November, with monthly mean rainfall values of 205 mm, 344 mm, 348 mm and 228 mm, respectively. This period accounts for 48% of the total annual rainfall. Irrigation water supply could be reduced in the main season (September-February) because of higher rainfall. On the other hand, the crops' water requirement was found to be 5.00 mm/day in the off-season crop and 4.90 mm/day in the main season crop. Crops' water requirements were higher in the off season than in the main season, mainly as a result of prevailing weather conditions. The average seasonal water consumption of rice was 862 mm, of which 616 mm (71%) represented evapotranspiration (ET) and 246 mm (29%) percolation. The average seasonal water supply was 1,210 mm, of which 871 mm (72%) was supplied by irrigation and 339 mm (28%) by rainfall. Agricultural fertilization entails significant economic and environmental costs. Among the fertilizers, nitrogen (N) is the most commonly applied nutrient in crop

production. However, excess N inputs, pesticides, and herbicides not only raise the cost of rice crop production but can also be environmentally damaging to the plant. The water quality index (WQI) was calculated on the basis of the following six parameters: biochemical oxygen demand (BOD), chemical oxygen demand (COD), ammoniacal nitrogen (NH3N), pH, dissolved oxygen (DO) and suspended solids (SS). There is an upward trend in DO concentration, while BOD and COD are observed in low concentrations. The WQI calculated in this study ranged from 69.9% to 82.2%. Two rivers (the Kerian and the Jarak) were considered slightly polluted in comparison with the general rating scale of the water quality index. The data also showed that the Muda and the Kulim are relatively clean. However, there is not much difference in the water quality index of the four rivers, between upstream and downstream sections. On the basis of the results of this study, the water quality of the rivers can be classified into Class III and Class IV by an overall river classification based on the DOE-WOI. This study also revealed that the most practical and effective methods of reducing the use of chemicals on rice fields is through integrated pest management (IPM). This is a unique and environmentally safe approach in which biological agents such as catfish and owls are used to control weeds and pests. Lastly, a conceptual model of the environmental management plan (EMP) was formulated to incorporate water quality, biological diversity and the sustainable use of natural resources for the scheme. The results of this study can be used as a basis for future studies on irrigation water quality in other projects.

17 SEPTEMBER 2008

YEAR

2007

FELLOW

PETYA STEFANOVA OROZOVA

BENEFICIARY COUNTRY

BULGARIA

COUNTRY OF STUDY

UNITED KINGDOM

PLACE OF RESEARCH

Heriot-Watt University School of Life Sciences Centre for Marine Biodiversity and Biotechnology (CMBB), Edinburgh, United Kingdom.

RESEARCH UNDERTAKEN

From 1 February to 31 July 2008.

ABOUT FELLOW

Born on 14 March 1971 in Vraca, Bulgaria.

LAST DEGREE OBTAINED

Institute of Microbiology, Sofia, Bulgaria: Doctoral Degree in Microbiology (26 February 2002).

SCHOLARLY WORK AND PUBLICATIONS

Properties of Yersinia enterocollitica and Yersinia pseudotuberculosis in red blood cell concentrate of different ABO groups during long keeping at 4°C. Clinical Microbiology and Infection, P. Orozova, N. Markova, T. Radoucheva (2001).

Mucins in natural mud as inductor of neuraminidase secretion of some Aeromonas strains, I. Abrashev, P. Orozova, Probl. Inf.Parasit. Dis. (2004).

Influence of mucins in natural mud from Pomorie salt lake on the growth and neuraminidase secretion of some Vibrio cholerae non 0-1 strains, I. Abrashev, P. Orozova, Journal of the Bulgarian Academy of Science, Volume 58,10, Bulgaria (2005).

E. Rhusiopathiae neuraminidase and its role in pathogenicity. Naturforschung, 61c, I. Abrashev, P. Orozova (2006).



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Ecology, molecular epidemiology and pathogenic features of aeromonads

During the past six months of the fellowship "Ecology, molecular epidemiology and pathogenic features of aeromonads" I have taken a significant step forward. I gained experience of fish pathology. Heriot-Watt University in Edinburgh, Scotland and the laboratory of Professor Brian Austin in the School of Life Sciences provided an excellent scientific and research atmosphere. Our work was supported by good technical services, and we used contemporary methods. All the colleagues in the laboratory and in the School of Life Sciences were friendly and supportive. The great experience and authority of Professor Brian Austin as well as his charismatic personality make him a perfect supervisor. I learnt much from him.

In our research, we used a culture collection of fish- and water-borne aeromonads isolated from Denmark, England, France, Italy, Scotland, Spain and Sweden. We focused on the taxonomy and pathogenicity of fish pathogenic isolates with a view to clarifying the role of the group in fish diseases. Extraction of the DNA and 16S rDNA gene sequencing, determination and characterization of some virulence markers, determination of fish pathogenicity were the main steps in our research. RAPD-PCR was used to characterize, and trace, the phylogeny of diverse aeromonads isolated from different countries.

We found that a culture recovered from human diarrhoeal disease (A. hydrophila subsp. dhakensis) causes disease and death in rainbow trout. The pathogenicity of A. hydrophila subsp. dhakensis to rainbow trout was a novel observation, and extends the range of aeromonads associated with diseases in aquatic animals.

The results were summarized and the manuscript "Identification and pathogenicity to rainbow trout (Oncorhynchus mykiss Walbaum) of some aeromonads" by P Orozova*, M Barker, DA Austin and B Austin was submitted in the Journal of Fish Diseases (JFD-2008-175).

I am very grateful to my supervisor Professor Brian Austin and all his colleagues for their support. Working together was not only effective but also a pleasure and a source of joy.

I appreciate the great opportunity that UNESCO gave me in supporting my professional development and scientific and research experience.

30 SEPTEMBER 2008

YEAR

2007

FELLOW

KOUASSI JOSEPH KOUAKOU

BENEFICIARY COUNTRY

CÔTE D'IVOIRE

COUNTRY OF STUDY

MOROCCO

PLACE OF RESEARCH

National Centre for Nuclear Energy, Sciences and Technology (Centre National de l'Energie, des Sciences et des Techniques Nucléaires) CNESCTEN, Rabat, Morocco.

RESEARCH UNDERTAKEN

From 26 November 2007 to 18 March 2008.

ABOUT FELLOW

Born on 5 December 1975 in Kinkua, Côte d'Ivoire.

LAST DEGREE OBTAINED

University of Abobo-Adjamé, Abidjan, Côte d'Ivoire. PhD in Natural Sciences, specialization: Biogeochemistry (Biodiversity and Sustainable Development of Ecosystems) (4 July 2009).

SCHOLARLY WORK AND PUBLICATIONS

Teneurs pseudototales et phytodisponibles des éléments traces métalliques dans les sols maraîchers de la ville d'Abidian [Pseudo-total content and phytoavailability of trace metal elements in market-garden soils in the city of Abidian] (Côte d'Ivoire). Ninth National Soil Study Seminar, Angers (France), 3 to 5 April 2007. French Soil Study Association (AFES), France. Proceedings, 63-64 Kouakou, K. J., Bekro, Y. A., Sika, A. E., Baize, D., Dogbo, D. O. (2007).

Diagnostic d'une contamination par les éléments traces métalliques de l'épinard (Spinacia oleracea) cultivé sur des sols maraîchers de la ville d'Abidian (Côte d'Ivoire) amendés avec de la fiente de volaille [Diagnosis of trace metal contamination of spinach (Spinacia oleracea) cultivated on market-garden soils amended with poultry manure in the city of Abidjan (Côte d'Ivoire)]. European Journal of Sciences Research. Vol. 21, No. 3, 471-487 Kouakou, K. J., Bekro, Y. A., Baize, D., Sika, A. E., Dogbo, D. O., Bounakhla, M., Zahry, F., Macaigne, P. (2008).



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Study of trace metals (Cd, Pb, Zn, Cu, Ni) in the soil, water and crops of urban agricultural sites in Côte d'Ivoire: the city of Abidjan

As in other cities in developing countries, market gardening is flourishing in the city of Abidjan. It helps to supply the markets in the city's 10 districts with fresh produce and provides financial resources for the unemployed. Market-garden soils are amended with poultry manure, a source of trace metal elements. The purpose of this study was therefore to assess the level of Cd, Cu, Pb and Ni contamination in the soil, water and crops of market-garden sites. To this end, samples of poultry manure, irrigation water, soil (surface and subsoil horizons) and of the main crops - amaranth, lettuce and spinach – were collected from the market-garden sites of Marcory and Cocody.

A control plot was selected on the experimental farm of the University of Abobo-Adjamé. Sample analysis showed that supplementation with poultry manure increased the pH and the organic-matter content in market-garden soils.

Zn and Ni levels in poultry manure collected from the two market-garden sites were higher than the values set by the French Association for Standardization (AFNOR) for fertilizers. With the exception of Cd at Cocody, Cu, Pb, Zn and Ni levels in irrigation water samples collected from Cocody were above the concentrations recommended by the Food and Agriculture Organization of the United Nations (FAO).

At Marcory, the surface and subsoil horizons were contaminated with Cu and Zn, while only the 20-40 cm horizon had a high Cd content. At Cocody, the Cd, Pb and Zn levels in the horizons were above or close to the recommended limits. In the control sample,

Pb, Zn and Ni levels in the surface and subsoil horizons were also above the recommended levels. Atmospheric inputs also contributed to soil contamination, which accounted for the high levels of some trace metals in the surface horizons of the control soil sample. Pb and Ni levels in the unconfined groundwater of the two market-garden sites and the Cd content in the Marcory waters were above the recommended values for drinking water. At the three sites, Pb, Zn and Ni concentrations in amaranth leaves, lettuce and spinach were above the recommended standards and reportedly posed a danger to consumers.

Keywords: market gardening, Abidjan, trace metal elements, contamination, Cd, Cu, Pb, Zn, Ni, poultry manure, irrigation water, unconfined groundwater, amaranth, lettuce, danger, consumers.

18 MARCH 2008

TRANSLATED FROM FRENCH BY UNESCO

2007

FELLOW

ANAR JANET RODRÍGUEZ CHEANG

BENEFICIARY COUNTRY

CUBA

COUNTRY OF STUDY

BELGIUM

PLACE OF RESEARCH

Université Libre de Bruxelles Océanographie Chimique et Géochimie des eaux Département des Sciences de la terre et de l'environnement, Brussels, Belgium.

RESEARCH UNDERTAKEN

From 10 September 2007 to 10 January 2008.

ABOUT FELLOW

Born on 30 April 1973 in Havana, Cuba

LAST DEGREE OBTAINED

Havana University, Biology Faculty, Havana, Cuba: Master's Degree in Microbiology, Microbial Ecology (27 April 2004).

SCHOLARLY WORK AND PUBLICATIONS

Environmental monitoring of chemical pollution in the Almendares River, Cuba. Workshop on Treatment and Management of Solid Waste and Wastewater. Volume 7. ISBN 959-7136-43-0, Yunier Arpajón, Zoila Castaño, Raúl Masán, Denis Desgain, Nathalie Roevros, Daysi Lugo, Josué Prats, Lei Chou, Nidia Rojas and Mayra Heydrich (2006).

Potential risk due to microbial pollution in the Almendares River. Workshop on Treatment and Management of Solid Waste and Wastewater.

Volume 7. ISBN 959-7136-43-0, Prats, J., Larrea, J., García-Armisen, T., Lugo, D., Rodríguez, A., Servazis, P., Rojas, N. and Heydrich, M. (2006).

Caracterización fisiológica de la comunidad microbiana neófita de la caña de azúcar [Physiological Characteristics of the Neophytic Microbial Community in Sugarcane], Revista colombiana de biotecnología, VII, No.1, Rodríguez, A. J., Trujillo, I. D., Felipe, Y., Rojas, M. M., Manzano, J., Heydrich, M. (2005).



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Assessment of heavy metal pollution and bioaccumulation in fresh water ecosystems in Havana City, Cuba

Increasing urban environmental pollution and human impact have led to a deterioration in water quality. Heavy metals are a particular group of contaminants in water reservoirs. They are highly significant ecologically, since they are not removed from water through self-purification, but rather accumulate in reservoirs and enter the food chain through bioaccumulation and biosorption processes. The Almendares and Quibú rivers are the most important freshwater systems in the Cuban capital, and they receive wastewater from industry and domestic sewage. The Metropolitan Park of Havana (PMH) has been developed along the last 7 km of the Almendares River. As an urban project, the PMH has several attraction sites spread over 700 hectares of land in the centre of the city. The pollution of the river could affect the health of the people who enjoy the Park.

The objective of this work was to determine metal concentrations in biological samples collected from the following polluted Cuban rivers: Almendares and Quibú. For the study, sediments and biological samples such as fish, crabs, molluscs, plant leaves and plant roots were analysed. For large fish, the muscle, digestive system and liver were processed separately. For large molluscs, only the soft internal material was taken. For small fish, crabs and small molluscs, the whole mass of these organisms from the same sample station was processed together. Plants were processed individually. All samples were dried at 80°C for 72 hours, then macerated and stored in plastic bags at room temperature. Acid digestion in closed vessels and microwave heating were performed to

release metals from the samples. Multi-elemental metal analysis of Al, Co, Cr, Cu, Ni and Zn was carried out by means of inductively coupled plasma atomic emission spectrometry (ICP-OES). The concentrations of the toxic heavy metals Cd and Pb were analysed through graphite furnace atomic absorption spectrometry (GFAAS). The results obtained indicate that each organism tends to retain one or more metallic elements, and the plants roots are able to concentrate a large spectrum of metals, including toxic metals. Not all metallic pollutants present in the aquatic system are able to affect the biota, and the bioaccumulation process does not depend directly on metal concentration.

There are other factors that seem to influence this phenomenon. Significant correlations were determined for Al-Zn, Al-Pb, Al-Cd, Cr-Cu, Cr-Ni, Cu-Ni, Cu-Zn, Cu-Pb, Cu-Cd, Ni-Zn, Zn-Pb, Zn-Cd and Pb-Cd. Taking into account the correlations found, some metals. such as: Al, Zn, Cd and Pb; Cr, Cu and Ni; Cu, Zn, Cd and Pb, seem to be related by synergic and/or antagonist mechanisms in the bioaccumulation process. In general, the concentrations of Cd and Pb found in fish exceeded the maximum limits for human consumption, which is 0.5 µg cadmium g-1 dry weight and 2 µg lead g-1 dry weight. The present work contributes to the assessment of metal pollution in significant waterways in the Cuban capital, as well as to knowledge about availability, bioavailability and metal interactions.

30 APRIL 2008

2007

FELLOW

CATALINA EVELYN GARDELLA GARCÍA

BENEFICIARY COUNTRY

EL SALVADOR

COUNTRY OF STUDY

MEXICO

PLACE OF RESEARCH

Centro de Investigaciones y de Estudios Avanzados del Instituto Politécnico Nacional (CINVESTAV-IPN) [Research and Advanced Studies Center of the National Polytechnic Institute of Mexico].

Departamento de Genética y Biología Molecular [Department of Genetics and Molecular Biology]

Mexico City, Mexico.

RESEARCH UNDERTAKEN

From 1 September 2007 to 31 May 2008.

ABOUT FELLOW

Born on 8 July 1969 in Valparaiso, Chile.

LAST DEGREE OBTAINED

Centro de Investigaciones y de Estudios avanzados del Instituto Politécnico Nacional (CINEVESTAV-IPN) [Research and Advanced Studies Centre of the National Polytechnic Institute of Mexico], Departamento de Biología Celular [Department of Cellular Biology], Mexico City, Mexico: Doctorate in Cellular Biology (18 July 2008).

SCHOLARLY WORK AND PUBLICATIONS

Purificación y Caracterización de una Proteína de Bacillus thuringiensis tóxica contra larvas de Rhyacciona buoliana (Polilla del brote del pino) [purification and characterization of a protein of Bacillus thuringiensis that is toxic to the larvae of Rhyacciona buoliana (pine shoot moth)]. Catalina Evelyn Gardella García. Tesis de Maestría en Bioquímica [Biochemistry Masters Dissertation]. Santiago de Chile. 105 pp. 1999. Chile.

Determination and Elucidation of new dengue genotype markers virus through the study of the non-structural NS5. Catalina E. Gardella Garcia, Gerardo Perez-Ramirez, Joel Navarrete-Espinosa, Alejandro Cisneros, Fabiola Jimenez Rojas, Luis R. Ramirez-Palacios, Rocio Rosado-Leon, Minerva Camacho-Nuez and Maria de L. Muñoz. ASTMH Journal. Abstract book, 2007 Vol. 77(1) pg 31. Philadelphia, Pennsylvania.

Specific genetic markers for detecting subtypes of dengue virus serotype-2 in isolates from the states of Oaxaca and Veracruz, Mexico. Gardella-Garcia, C. E., Perez-Ramirez, G., Navarrete-Espinosa, J., Cisneros, A., Jimenez-Rojas, F., Ramirez-Palacios, L. R., Rosado-Leon, R., Camacho-Nuez, M., Munoz, M. D. BMC Microbiol. 2008, 15:8(1):117.

The use of microarrays for the detection of water contamination by dengue virus and entamoeba histolytica, Final Report, Mexico City, June 2008.



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Detection of *Entamoeba histolytica* and *Flavivirus* Vectors in Irrigation and Recreational Waters

Contamination of drinking and recreational water by pathogenic microorganisms associated with faecal waste has a significant impact on public health. Rivers are exposed to a wide spectrum of potential contaminants as a result of many recreational uses and close proximity to the agricultural industry.

These increase the risk of accidental release and raise concern about agents of disease entering the rivers, making them an excellent testing ground for pathogens and vectors that transmit viral diseases. We are developing a method to determine contaminants in such recreational and drinking water. To begin this study, we determined the specific biomarkers in a microarray design through a proteomic analysis of water samples collected in Mexico City and the surrounding areas.

To investigate the most frequent contaminants, these samples were analysed in 3200 QTrap proteomic equipment with an HPLC Agilent 1200. The results showed that the water contained Aedes aegypti, Culex pipiens and Entamoeba histolytica peptides. Aedes aegypti and Culex pipiens are very significant in the transmission of dengue and West Nile viruses, respectively. Interestingly, we also detected the following major pathogens – E. coli, Proteus mirabilis, Salmonella, Shigella, Vibrios including Vibrio cholerae, Pseudomonadales and Plasmodium. On the basis of these results, the DNA of six samples of the collected water was obtained and tested using fluorochrome-labelled specific primers. Ae. aegypti, C. pipiens and E. histolytica DNA from laboratory cultures were used as positive controls in our tests. In addition, RT-PCR fragments of NS3 and NS5 c-DNA from DEN 2 were also obtained to test the specificity of two labelled primers to

identify dengue. The DNA in DMSO 50% was spotted in amino-silane slides to bind it covalently using the Robot GeneTACTM G3. All DNA spots were detected with SYBR green. All specific primers used to detect the DNA from the different samples (C. pipiens, E. histolytica and the genes for NS3 and NS5 of the dengue virus) were designed previously. The specific primer for E. histolytica and C. pipians were labelled with P1-Texas red and R22-Cv5 respectively. DNA that was covalently bound to the slides was hybridized with the labelled primers. The primers recognized the spots that contained the DNA for E. histolytica or C. pipiens in the microarray. The primer labelled with F-HEX specific for NS5 had high specificity for the NS5 RT-PCR product in the microarray compared to the NS3 primer (DSP2) labelled with 6-FAM. The primer (Ae. aegypti specific) ITS1A labelled with 6-FAM did not recognize the mosquito DNA, although the DNA binding was detected with SYBR green.

18 SEPTEMBER 2008



2007

FELLOW

HAAD BESBOUSSE

BENEFICIARY COUNTRY

MOROCCO

COUNTRY OF STUDY

FRANCE

PLACE OF RESEARCH

University of Rouen
UMR 6522 of the French
National Centre for Scientific
Research (CNRS)
Mont-Saint-Aignan, Rouen,
France.

RESEARCH UNDERTAKEN

From 5 September 2007 to 4 June 2008.

ABOUT FELLOW

Born on 14 June 1977 in Aquermoud-Essaouira, Morocco.

LAST DEGREE OBTAINED

Hassan II University Ain Chock, Ecole Nationale Supérieure d'Electricité et Mécanique (ENSEM), Casablanca, Morocco. Post-graduate diploma (DESS) in the Technology of Plastic and Composites (2003).



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Preparation and characterization of the complexing membranes of metal ions

This research aims to determine the capacity of the membrane containing polyethyleneimine (PEI) to filter solutions containing variable quantities of waterpolluting heavy metal ions. The membranes are prepared with semi-interpenetrating polymer networks (SIPNs), by mixing polyvinyl alcohol (PVA) and polyethyleneimine (PEI).

The PVA/PEI membranes prepared in the proportion of 60/40 are homogeneous and are stabilized through reticulation by 1,2-dibromoethane gas at 140°C for four hours. The effectiveness of the reticulation was monitored by infrared spectroscopy and by measuring the inflation of the membranes in the water

The efficiency of the membrane in chelating metal cations (Hg(II), Pb(II), Cd(II) and Cu(II)) and the optimal conditions were determined by absorption experiments in static mode. Filtration experiments were conducted to assess the efficiency of the membrane in real-life water treatment conditions. The possibility of regenerating and reusing the membrane was also studied.

In the static experiments, the effectiveness of the complexing of the four metal ions by the PVA/PEI membrane depended on the metal ion in the initial concentration, pH, contact time, membrane mass, temperature and water hardness. The results showed significant selectivity in descending order: Hg(II): q [quantity in mg.g of the ion absorbed per unit of mass of the membrane] = 217>Pb(II):151 >Cd(II):62 >Cu(II): 44mg.g, which demonstrated the membrane's high retention capacity for mercury and lead and its moderate affinity for copper and cadmium.

Models of experimental results were quite consistent with the Langmuir model.

Dynamic experiments, involving frontal filtration of a metal ion (Pb(II), Cd(II) and CU(II) solution and a mixture of the three ions, were conducted on the PVA/PEI membrane with pH = 5. When each ion was filtered singly, the best result was observed for Pb(II), the retention rates R (quantity of fixed ions/quantity of ions in the initial solution) being 77.5% for Cu(II), 82.5% for Cd(II) and up to 100% for Pb(II). When the mixture was filtered, the membrane showed greater affinity for Cu(II) (the elimination percentage [(quantity of ions in the initial solution – quantity of ions in the filtrate)/ quantity of ions in the initial solution] E = 94-87%) and Cd(II) (E = 99-82%) than for Pb(II) (E = 80-68%). To raise membrane efficiency, the concentration of the feed solution must remain stable during the frontal filtration.

The PVA/PEI membrane regenerated by 0.05 M HCl may be used for several filtration cycles before total deterioration, with retention that is halved in relation to when it was first used.

31 DECEMBER 2008

TRANSLATED FROM FRENCH BY UNESCO

2007

FELLOW

CHECK AHMED SOULEYMANE

BENEFICIARY COUNTRY

NIGER

COUNTRY OF STUDY

FRANCE

ABOUT FELLOW

Born on 1 January 1970 in Tafadek, Niger.

LAST DEGREE OBTAINED

University of Dschang, Faculty of Agronomy and Agricultural Sciences, Dschang, Cameroon: Postgraduate degree (DESS) in Participatory Planning and Management of Forest Resources.

PLACE OF RESEARCH

University of Toulouse-Le Mirail, Science, Space and Society Unit, Department of Geography and Planning Daniel Faucher Institute, Toulouse, France.

RESEARCH UNDERTAKEN

From 10 September 2007 to 9 June 2008.



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Assessment of biological diversity and hydrological and environmental processes in the Middle Niger: a case study of the Dargol, Sirba and Goroubi watersheds

The Middle Niger region has significant biodiversity and hydrological and environmental processes. It extends from Tossave (Mali) to Malanville (Benin) over a distance of 850 km and covers an area of 9.000.000 km2.

The river Niger receives inflow from its right-bank tributary watersheds. Our work consisted in identifying the characteristics of three of the right-bank watersheds as part of an assessment of biodiversity and the mechanisms underlying hydrological and environmental phenomena.

The purpose of this study was to assess knowledge of existing species in the three right-bank tributaries and to examine hydrological and environmental processes. This Master's level research involved laying the foundations for the feasibility of the study and determining the conditions under which it could be conducted.

Biodiversity assessment is a long-term undertaking that requires a number of skills and substantial resources. Accordingly, the study was carried out within the limits of our capacity. In the context of our research, I compiled an inventory of the animal and plant species that we could encounter. To that end, a field study was performed and I drew on the results of studies by research facilities and organizations involved in that part of Niger.

Erosion has had a significant impact on the river Niger and, using the empirical method, I was able to determine the potential sediment discharge from the watersheds into the river.

The Goroubi basin carries more sediment because it has a steeper slope gradient than the two other basins.

Climate change and anthropogenic pressure have had a negative impact on biological resources, leading to the extinction of some species and to changes in hydrological and environmental processes. The regions in which the study was conducted nonetheless had abundant fish, birds and other vertebrates and invertebrates, and also significant shrub and herbaceous vegetation.

A study in this area on the tributary watersheds in the Middle Niger region was essential in order to fill the existing gap, although the lack of available literature made it difficult.

Thus, in the light of current knowledge of the watersheds, there was an urgent need for more in-depth thesis-oriented research to be undertaken in order to give insights into biodiversity and hydrological and environmental processes.

This study is scientifically innovative and enhances knowledge of environmental processes along the river Niger.

5 MARCH 2009

TRANSLATED FROM FRENCH BY UNESCO

2007

FELLOW

AHMED IBRAHIM ABU ISMAIEL

BENEFICIARY COUNTRY

PALESTINIAN AUTONOMOUS TERRITORIES

COUNTRY OF STUDY

UNITED KINGDOM

PLACES OF RESEARCH

Cairo University, Chemistry Department Faculty of Science, Giza, Egypt.

Field research studies:
Al-Aqsa University
Chemistry Department
Gaza, Palestinian Autonomous
Territories.

RESEARCH UNDERTAKEN

From 1 October 2007 to 31 May 2008.

ABOUT FELLOW

Born on 11 April 1976 in Abasan Al-Kabira, Palestinian Authority.

LAST DEGREE OBTAINED

Al-Azhar University of Gaza, Palestinian Autonomous Territories, Master of Science in Chemistry (31 January 2001).

SCHOLARLY WORK AND PUBLICATIONS

Template Synthesis and Characterization of Mono and Homobi-Nucleating Mixed Dithiatetraaza-Macrocyclic Complexes Polyhedron 20/2001, pages 455-459.



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Preparation and Characterization of Ion-selective Electrodes for the Determination of Some Water Pollutants in Groundwater

In this work we prepared new ion selective electrodes to determine copper (II) and mercury (II) pollutants in groundwater samples.

Determination of trace amounts of copper(II)

in water samples by means of a new chemically modified carbon paste electrode based on 2,3;13,14-dibenzo-4,12-dioxo-1,15-dithia-5,8,11-triazacyclopentadecane (DDTP). In this work, a new chemically modified carbon paste electrode (CMCPE) based on 2,3;13,14-dibenzo-4,12-dioxo-1,15-dithia-5,8,11-triazacyclopentadecane (DDTP) has been developed to determine Cu²+ in water samples. The performance of this electrode was investigated using potentiometric measurements. The sensor developed shows a good linear response of 30.2 ± 0.8 mV per decade over the concentration range of 2.1×10^{-7} - $1.0 \times 10^{-2} M$. It has a very low limit of detection, $3.5 \times 10^{-8} M$ (2.21 ppb), with a response time of less than 10 s. The proposed electrode revealed very good selectivities with respect to alkali, alkaline earth and some transition metal ions. The results obtained from this study reveal that a potentiometric Cu-CMCPE based on 2,3;13,14-dibenzo-4,12-dioxo-1,15-dithia-5,8,11-triazacyclopentadecane (DDTP) is an excellent Cu²⁺ selective sensor and can be used to determine this ion in the presence of considerable concentrations of common interfering ions. Applicable pH range, lower detection limit and potentiometric selectivity coefficients of the proposed sensor make it superior to other methods used for this purpose.

Potentiometric determination of low levels of Hg (II) in water samples by means of a new sensor based on salophen.

A synthesized N,N-bis(salicylidene)-ophenylenediaminate (salophen) was used as an ionophore for the preparation of a new mercury ion-selective electrode.

The electrode exhibits a Nernstian response over the concentration range of 1.0_10-7_5.0_ $10^{-4}\,\rm M$, with a slope of 57.3±0.5mV per decade of concentration. The limit of detection, as determined by the intersection of the extrapolated linear segments of the calibration plot, is 7.6_10-8 M. The electrode shows good selectivity towards Hg (II) with respect to many common anions.

The response time of the sensor is extremely fast (≤ 2 mint) and can be used in the pH range of 3.0–7.8. The electrode was used to determine mercury in tap, mineral and groundwater samples.

In this work, we have discussed the application of salophen as a new ionophore for the detection of Hg (II) ions. The sensor responds to Hg (II) ions. The recognition of small molecules in binding with heavy metals has gained importance in the field of research. The newly synthesised diamine with two donating nitrogen atoms, low molecular weight and flexible structure was expected to act as a suitable ionophore in the preparation of carbon paste sensors for mercury ions of proper size and charge.

To evaluate the analytical applicability of the proposed method, the sensor was used to determine mercury (II) in tap, mineral and groundwater samples.

28 MAY 2008

2007

FELLOW

EIMAN MOHAMED FADUL BASHIR

BENEFICIARY COUNTRY

SUDAN

COUNTRY OF STUDY

UNITED KINGDOM

PLACE OF RESEARCH

Loughborough University, Institute of Development Water, Engineering and Development Centre (WEDC) Leicestershire, United Kingdom.

RESEARCH UNDERTAKEN

From 23 February to 22 July 2008.

ABOUT FELLOW

Born on 28 June 1973 in Medani, Sudan.

LAST DEGREE OBTAINED

National University of Ireland, Ireland: Master of Science in Hydrology (20 December 1999).

SCHOLARLY WORK AND PUBLICATIONS

Design of Stable Irrigation Canals in Gezira Irrigation Scheme, Eiman Fadul, Scientific paper presented at a workshop on the Role of Scientific Research in the Maintenance of Irrigation Operations, Hydraulic Research Station, Medani, Sudan (April 2002).

Design and remodelling of stable canals in Sudan, Eiman Fadul and Younis Gismalla, International Conference for Sediment Initiative, Khartoum (2006).

Developing Procedure for design stable alluvial channels in Sudan, Eiman Fadul, HRS technical report, Medani, Sudan (2007).

Sustainability of Pressure Filters in Managil Sub-Divisions.
Eiman Fadul, scientific paper presented at a workshop on Sediment Management in Irrigation and Operations, Medani, Sudan (April 2008).



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Water Supply for Low-Income Rural Communities

The Gezira Scheme in Sudan is one of the largest irrigated schemes in Africa, and it is managed as one unit (2.2 million ha). In the Gezira scheme, there are more than 1,200 unregistered villages inhabited by agricultural workers who immigrated from western Sudan or neighbouring countries. The majority of them have no adequate source of water supply. These villages have high rates of schistosomiasis infection (more than 50%), due to the use of polluted water from irrigation canals for domestic water supply and daily activities. There is a need to find an appropriate alternative water supply which fits the local circumstances, and this report discusses the possible water supply options for one typical community within the scheme.

The main objective of this study is to suggest options for safe, reliable drinking water through the use of appropriate technology that could easily be operated and maintained by the village community within the Gezira Irrigation Scheme.

Water resources in the scheme are irrigation water, groundwater and rain water. There are no springs or natural surface water resources. The different water sources in the Gezira scheme are hand pumps, house taps or neighbourhood taps connected to small distribution systems, haffir and irrigation canals.

There are considerable interruptions to water supplies for the following reasons:

1/ the water supply institutions have been unable to meet the commitments necessary to maintain functioning of the facilities installed; examples include shortages of fuel, spare parts, technicians and funds needed

to maintain and run the services: lack of coordination between the various parties involved in rural water supply;

2/ lack of understanding of the social and economic realities of life at the local level on the part of planners;

3/ the top-down, purely government-initiated approach;

4/ the limited community involvement in the operating and management of the water services.

This report presents different options for water supply. However, other combinations of theses options are also possible.

Option 1/ Pipe connection from a nearby borehole.

Option 2/ Improving water quality in the irrigation canal in the village.

Option 3/ Infiltration Gallery (IFG) on the main irrigation canal.

In designing and building domestic water services, affordability, acceptability and technical appropriateness should also be considered. These different options were analysed in the light of factors such as the initial cost, the operating and management cost, and the yearly costs for each household were compared. The next step is to present the range of water supply options to the village community and the stakeholders.

6 OCTOBER 2008

ENVIRONMENT WHAT THE FELLOWS SAY



PETYA STEFANOVA OROZOVA BULGARIA, 2007

"I am very grateful to my supervisor Professor Brian Austin and all his colleagues for their support. Working together was not only effective but also a pleasure and a joy. I appreciate the great opportunity that UNESCO gave me by supporting my professional development and scientific and research experience".



CATALINA EVELYN GARDELLA GARCÍA EL SALVADOR, 2007

"Thanks to this fellowship,
I have been able to analyse
the molecular quality of water
using advanced molecular
biology technology and to
obtain my Ph.D. in science.
I have explained my studies
in DNA microarrays in
theoretical and practical
sessions with professors and
students of the University
of El Salvador".



OLIVIER GNANKINEBURKINA FASO, 2008

"I used the fellowship to complete my training in molecular biology (DNA extraction, PCR and sequencing)".



DONA HEMALI NANDANA MUNASINGHE SRI LANKA 2008

"As an academic, research is one of my main duties, in addition to teaching and community service. Therefore, I was fortunate to receive the UNESCO/Keizo Obuchi post-doctoral fellowship, which gave me an excellent opportunity to visit laboratories with high-tech facilities and to work with experts in the field. The experience and knowledge that I have gained will serve as a platform for my future research work".



CHECK AHMED SOULEYMANE NIGER, 2007

"The contribution of my fellowship will be enormous to my country in my capacity as a specialist in the environment to fight against desertification".



AHMED IBRAHIM ABU ISMAIEL
PALESTINIAN AUTONOMOUS TERRITORIES, 2007

"This fellowship encouraged me to complete my Ph.D. studies, as I registered in the Ph.D. programme throughthe joint cooperation programme between the University of Palestine and Cairo University."

2008

FELLOW

OLIVIER GNANKINE

BENEFICIARY COUNTRY

BURKINA FASO

COUNTRY OF STUDY

FRANCE

PLACE OF RESEARCH

Claude Bernard University of Lyon I, Biometry and Evolutionary Biology Laboratory, UMR C.N.R.S. 5558. Lyon, France

RESEARCH UNDERTAKEN

From 3 September 2008 to 3 January 2009.

ABOUT FELLOW

Born on 4 March 1974 in Abidjan-Marcory, Côte d'Ivoire.

LAST DEGREE OBTAINED

Claude University of Ouagadougou: Ph.D. (6 October 2006).

SCHOLARLY WORK AND PUBLICATIONS

Contribution to the evaluation of the potential of Encarsia sp. (Hymenoptera: Aphelinidae) as biological agent control of the cotton whitefly, *Bemisia tabaci* Gennadius (Homoptera: Aleyrodidae) in Burkina Faso. Gnankine O., Traore D., Sanon A., Dabire R. and Ouedraogo P. Albert, 2005 International Journal of Tropical Insect Science, 25(4): 266-273 (2005).

Traitements insecticides Impact et dynamique des populations de *Bemisia tabaci* au Burkina Faso. Cahiers d'Agricultures Vol., 16(2): 101-109 Gnankine O., Traore D., Sanon A., nafoni Seydou Traore & Ouedraogo A.P. (2007).

Gnankine O., Traore D., Sanon A., Ouedraogo A.P. Cahier agricultures, Vol., 16(2):101-109 (2007).



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Molecular characterization of *Bemisia tabaci* (Homoptera: aleyrodidae) for a durable management

The *Bemisia tabaci* (Gennadius) whitefly is a major pest in cotton and vegetable crops in Burkina Faso, in Africa and throughout the world. The complexity of controlling *B. tabaci* is linked to the biodiversity of this polyphagous pest and its capacity to pullulate rapidly and transmit viruses. If an effective *Bemisia tabaci* control method is to be put in place, knowledge of its bioecology must be improved. Little information is available to date on the biotypes found on crops in Burkina Faso and in West Africa generally. It is still not known whether the cotton whitefly is the same as the tomato whitefly.

This study aimed, firstly, to conduct mitochondrial gene amplification to characterize 13 *B. tabaci* populations and PCR (absence/presence) tests to find the various symbiotes associated with the various populations. The various PCR tests and the search for the various symbiotes required some 600 DNA extractions.

To conduct our study, as a first step, the mitochondrial gene coding for Cytochrome Oxydase I was sequenced in order to characterize *B. tabaci* populations by host plant and by geographical site. The findings point to biotype variability depending on the geographical region. In Burkina Faso, the presence of the Q1 biotype was recorded on cotton in Farako-Ba and Lena and on aubergine in Kuinima. Two sympatric biotypes, Q1 and ASL (Sub-Saharan Africa Silver Leafing), were found on tomato and courgette plants. Only the Q1 biotype was found in the centre and in the east, on tomato and cotton respectively.

The new Q3 biotype was found on tobacco in the west and on Lantana camara. In Benin and Togo, the presence of ASL was recorded on cotton and on tomato plants.

Secondly, the study dealt with interaction among biotypes and the frequency of association with B. tabaci secondary symbiotes (SS) by geographical site and by host plant. Hamiltonella and Wolbachia were spotted only with populations of the Q1 genetic group, while Arsenophunus (750 pb) were found with the Q biotype ASL genetic group and with the Sub-Saharan non Africa Silver Leafing (AnSL) biotype.

The new genetic group harboured *Rickettsia* and *Aersenophonus* (750 pb). Cardinium and Fritschea were not found in the tested populations. The results for this part of the study shows strong correlation between symbiotic status and biotype, but populations were less infected than European populations. This study has increased knowledge of B. tabaci bioecology in West Africa, which should doubtless contribute to the introduction of a strategy to control this major agricultural pest.

Keywords: *Bemisia tabaci*, biotypes, characterization, CO1 gene sequencing, secondary symbiotes, sustainable management.

22 APRIL 2009

TRANSLATED FROM FRENCH BY UNESCO

2008

FELLOW

VINCENT TCHIMOU ASSOMA

BENEFICIARY COUNTRY

CÔTE D'IVOIRE

COUNTRY OF STUDY

FRANCE

PLACE OF RESEARCH

Université Paris-Est de Marne-la-Vallée, Institut Francilien des Laboratoire Géomatériaux et Géologie de l'Ingenieur, Marne-la-Vallée, France.

RESEARCH UNDERTAKEN

From 3 November 2008 to 2 June 2009.

ABOUT FELLOW

Born on 30 December 1975 in Agboville, Côte d'Ivoire.

LAST DEGREE OBTAINED

University of Cocody-Abidjan: Master of Advanced Studies in Ash, Hydrom, PEES, Remote sensing, GIS, EENV, MG (28 December 2005).

SCHOLARLY WORK AND PUBLICATIONS

Use of ERS-2 radar images and mathematical models to characterize fractured bedrock aquifers in western Côte d'Ivoire.

Fusion d'images RSO ERS-2 et ETM+ de Landsat-7 pour la cartographie hydrostructurale du bassin versant du Koué (Ouest de la Côte d'Ivoire). BIOTERRE, Rev. Int. Sci. de la vie et de la Terre, Côte d'Ivoire (2006).

Hydrogeological mapping by optical fusion and radar of the Koué Drainage Basin, western Côte d'Ivoire (2007).



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The contribution of radar remote sensing (ENVISAT) and Geographic Information Systems (GIS) to the mapping of hydrogeological and mining potentialities. Implication in the management of water resources in the southern coastal region of Côte d'Ivoire

This study aimed to evaluate the water resources in the southern coastal region of Côte d'Ivoire using geospatial techniques such as remote sensing, geographic information science and mathematical modelling tools (spatial hydrology and hydrogeology). The objective was to explore new techniques for the evaluation of potential water resources and hydrostructural mapping in water science, in the pursuit of rational water management for sustainable development.

For this research we had access to a hydroclimatic database from the Climate Research Unit (CRU) and Advanced Synthetic Aperture Radar (ASAR) imaging from the environmental satellite ENVISAT provided by the European Space Agency (ESA). The Agnéby Coastal Basin, used here as a test area, recorded a rainfall deficit of between 14% and 28% during the period 1951-2002, with a localized divergence in 1968. Analysis of the chronological series (1951-2002) of the hydro-climatic data enabled the ETPpen and the real evapotranspiration to be calculated, the water reserves (WR) and the usable water reserves (UWR) in groundwater for agriculture to be evaluated using the Instat-Plus model, and lastly the trend in the rainfall-runoff relationship to be identified using the GR2M model. On the basis of the latter, we evaluated the water resources that could be mobilized in the Agnéby Basin during the period 1994-2002, for which the annual trend was estimated at 329 million m3 for water reserves of 132mm and real evapotranspiration of 1018mm.

Average usable water reserves fluctuated between 60mm and 120mm over the period 1951-2002.

ENVISAT ASAR remote sensing geospatial techniques (IMP and WSM) were used to evaluate the algorithms (Lee, Frost and Gamma-MAP), with the Frost filter presenting the best compromise, efficiently reducing the speckle in the ASAR images.

The ASAR WSM images, given their wide field of view (pixel size of 75m), were used in synergy with the MNA SRTM data (resolution of 92m) obtained from NASA to produce a hill shaded relief image of the southern coast of Côte d'Ivoire, from which structural discontinuities were removed

Thus, the filtered and enhanced ASAR images were used to interpret the hydro-structural discontinuities, providing a database of a network of fractures that could be useful for prospecting and establishing high-flow-rate wells. This data will also be useful for modelling the fractured bedrock aquifer system in order to locate potential underground water resources and evaluate them. Knowledge of all water resources (surface and subsurface) in relation to the population's water needs will help the water authorities to ensure better planning for sustainable development.

7 APRIL 2010

TRANSLATED FROM FRENCH BY UNESCO

2008

ABOUT FELLOW

Born on 24 June 1970 in Laos.

FELLOW

CHANHDA HEMMAVANH LAST DEGREE OBTAINED

Master of Science at the Asian Institute of

Technology (22 August 1996).

BENEFICIARY COUNTRY

LAO PEOPLE'S DEMOCRATIC REPUBLIC

SCHOLARLY WORK AND PUBLICATIONS

Agro-Forestry Policy Guidelines using a Participatory Approach, Lao People's Democratic

Republic (2006).

COUNTRY OF STUDY

PEOPLE'S REPUBLIC OF CHINA

PLACE OF RESEARCH

Zhejiang University, China School of Public Administration Department of Land Resource Management, Hangzhou, China.

RESEARCH UNDERTAKEN

From 3 September 2008 to 2 June 2009.

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Study on driving forces and land-conservation strategy in Lao PDR

Under the UNESCO/Keizo Obuchi Research Fellowships Programme – 2008, I went to Hangzhou, Zhejiang Province, China, to attend the long training course at the Department of Land Resource Management, School of Public Administration, Zhejiang University. I arrived in Hangzhou on 3 September 2008 and, on 5 September, registered at the Department of Land Resource Management, School of Public Administration, Zhejiang University. I then went to meet my professor and he provided me with the research schedule as follows:

Part I/ Learning theory on land use planning from 6 September to 31 December 2008. The main objective of part 1 is to gain an understanding of land resource and land use planning for the sake of sustainable use of the land and natural resources.

The professor lectured only in the mornings

and I reviewed the lecture each afternoon.

Part II/ Practising with the Geographic Information System for Environment from 1 January 2009 to 10 June 2009. I selected Luang Namtha Province, Lao PDR, as a research area. Geographic Information System Data of the study area for 1992 and 2002 were collected from the Ministry of Agriculture and Forestry, Lao PDR. I practised GIS by using ArcGIS software each morning and afternoon, while in the evening I read some research papers written by many scholars, all of which concerned forest and land use change.

Finally I wrote the research paper on forest and land use change in the Lao PDR, summarized as follows: Forest Cover and Land Use Change directly impacts biological diversity worldwide, contributes to climate change, and affects the ability of biological

systems to support human needs by altering ecosystem services. In this paper, according to the Lao PDR's forest land use characteristic and ecosystem type, the forest cover and land cover category of the Lao PDR was divided into six classes, including Current Forest CF. Potential Forest PF, Other Wooded Areas OW, Permanent Agricultural Land PA, Other Non-Forest Areas NF and Water W. Firstly, the former geographic information data (GIS data) of forest cover and land use for 1992 and 2002 were collected from the Ministry of Agriculture and Forestry (MAF), Lao PDR. Two steps of forest land use change assessment were conducted by MAF including plot sampling on Satellite Images Maps (SIMs) to detect changes in forest cover and land use between 1992 and 2002 for the whole country and field verification in order to identify causes of the changes. Secondly, the dynamic information of the forest land cover change during the 10 years was calculated by the map algebra in ArcGIS 9.2. Thirdly, based on the theory of ecosystem service function and the service function value of global different ecosystem provided by Costanza et al., the value of the six forest cover and land use categories in the Lao PDR was worked out. Finally, the ecological environment effect that the regional land cover change produced in the study period was calculated.

I defended the above research summary at the Department of Land Resource Management, School of Public Administration, Zhejiang University, on 20 June 2009. I feel that I acquired extensive knowledge while conducting research in China such as: GIS, research methods, research analysis, report writing methods, and so on.

29 JULY 2009

2008

FELLOW

RAÚL AUGUSTO LOAYZA MURO

BENEFICIARY COUNTRY

PERU

COUNTRY OF STUDY

THE NETHERLANDS

PLACE OF RESEARCH

Department of Aquatic Ecology and Ecotoxicology Institute for Biodiversity and Ecosystem Dynamics (IBED) University of Amsterdam, Amsterdam, The Netherlands.

RESEARCH UNDERTAKEN

From 3 March to 3 August 2009.

ABOUT FELLOW

Born on 7 March 1975 in Lima, Peru.

LAST DEGREE OBTAINED

Cayetano Heredia Peruvian University: Licentiate in Biology (2001).

SCHOLARLY WORK AND PUBLICATIONS

Metal-induced shifts in benthic macroinvertebrate community composition in Andean high altitude streams. Environmental Toxicology and Chemistry 29(12), 2761–2768. R. Loayza-Muro, R. Elías-Letts, J. Marticorena-Ruiz, J. Palomino, J.F. Duivenvoorden, M.H.S. Kraak and W. Admiraal (2010).

Ecotoxicidad de metales en el bivalvo dulceacuícola
Anodontites trapesialis y su potencial uso en el biomonitoreo de ambientes acuáticos en la Amazonía peruana. In: Herkovits, J. (ed.)
Química y Toxicología
Ambiental en América Latina.
Society of Environmental
Toxicology and Chemistry –
SETAC, Buenos Aires,
Argentina. Loayza-Muro, R.,
y Elías-Letts, R. (2009).

Responses of the mussel
Anodontites trapesialis
(Unionidae) to environmental
stressors: effect of pH,
temperature and metals on
filtration rate. Environmental
Pollution, 149:209-215. Loayza
Muro, R and Elias-Letts. (2007).

Influence of Leishmania (Viannia) Species on the Response to Antimonial Treatment in Patients with American Tegumentary Leishmaniasis. The Journal of Infectious Diseases, 195: 1846-1851. / acids. Bulletin of Entomological Research 921: 25-33. J. Arevalo, L. Ramirez, V. Adaui, M.Zimic, G. Tuolliano, C. Miranda-Verastequi, M. Lazo, R. Loayza Muro, S. De Doncker, A. Maurer, F. Chappuis, J-C. Dujardin and A. Llanos - Cuentas (2007).



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Analysis of field data for applying a biotic index based on benthic macroinvertebrates to evaluate water quality and environmental changes in Peruvian high-altitude streams

The high-altitude Peruvian Andes encompass a large number of pristine freshwater sources. However, their quality and sustainability are constantly at risk owing to critical levels of acid drainage, metals, pesticides and domestic effluents. At present, the environmental impact of these toxicants is determined by means of water chemical analysis, although it fails to estimate appropriately water biological quality and long-term contamination effects. In contrast, biotic indices based on aquatic invertebrates displaying variable sensitivity to pollution provide a reliable, cost- and time-effective method for evaluating the biological status and environmental history of water bodies. Despite these advantages, they are seldom applied in Peru and research on adapting biotic indices to local conditions is scarce. Standardizing such biomonitoring tools may thus be significant for local people urgently needing to take decisions on the best use of water and for institutions working on the recovery of aquatic ecosystems. To attain this goal I studied the role of metals on structuring macroinvertebrate communities in clean and heavily polluted streams between 3,500 and 4,500 m.a.s.l. in the Cordillera Blanca and Cordillera Negra, in the north-central Andes of Peru, and how the biotic indices BMWP (Biological Monitoring Working Party) and ASPT (Average Score per Taxon) performed in determining water quality. Clear differences in the physical chemical conditions of clean and polluted streams were observed, with a strong component of metals ("tox factor") for the polluted sites. Metals such as arsenic, cadmium, copper, lead and zinc showed an increase of up to 3,500 times the concentration at clean sites, which indicated highly toxic and risk conditions.

Totals of 47 families of insects and 10 groups of non-insects were found, with the main patterns in faunal composition being determined by crustaceans, mayflies, stoneflies and caddis flies in the clean streams, and by chironomids and beetles in the polluted ones. A canonical correspondence analysis indicated a strong influence of the tox factor (all highly correlated metals) on invertebrate assemblages, and that the Cecidomyiidae, Scatophagidae, Phoridae, Dixidae (Diptera), Isotomidae, Sensiphorura (Collembola), Ptiliidae (Coleoptera) and Gonyleptidae (Arachnida) families had an optimum at high metal concentrations, which revealed an exceptional tolerance given the harsh habitat conditions posed by pollution and high altitude. On the other hand, families belonging to Ephemeroptera, Plecoptera and Trichoptera appeared to be highly sensitive to pollution and may be regarded as potential bioindicators of stream quality for this region. The BMWP and ASPT indices were higher at the clean sites, but only the ASPT was able significantly to differentiate water quality among clean (good quality) and polluted (very poor quality) streams. The ASPT index was correlated with conductivity, pH and almost all metals indicating its suitability for determining the biological quality of metal-polluted streams. This is the first study describing the stream macroinvertebrate fauna in this Andean region and the relevance of metals on driving its composition under high-altitude conditions. It is also the first attempt to apply the BMWP and ASPT indices for determining stream water quality in this sensitive ecoregion.

25 AUGUST 2009

2008

FELLOW

DONA HEMALI NANDANA MUNASINGHE

BENEFICIARY COUNTRY

SRI LANKA

COUNTRIES OF STUDY

AUSTRALIA AND INDONESIA

PLACES OF RESEARCH

AUSTRALIA

Charles Darwin University School of Science and Primary Industries, Faculty of Education, Health and Science, Alice Springs NT

INDONESIA

Indonesian Institute of Sciences Research Centre for Biology, Zoological Division, Cibinong.

RESEARCH UNDERTAKEN

From 10 October 2008 to 30 June 2009.



dhnm@zoo.ruh.ac.lk

ABOUT FELLOW

Born on 17 April 1968 in Aluthgamweediya, Sri Lanka.

LAST DEGREE OBTAINED

Deakin University Australia: Ph. D in Molecular Systematics, (29 February 2004).

SCHOLARLY WORK AND PUBLICATIONS

A phylogenetic study of the freshwater crayfish genus Cherax Erichson and related genera using sequences from mitochondrial and nuclear genes, Sri Lanka Association for the Advancement of Science, Proceedings of the 60th Annual session. P. 163, Sri Lanka (2004).

An examination of the utility of sequences from two mitochondrial protein coding genes for phylogeographic studies of marron (Cherax cainii) from the southwest of Western Australia Proceedings of the second science symposium, University of Ruhuna, pp. 37-48 (2004).

The systematics of freshwater crayfish of the genus Cherax Erichson (Decapoda: Parastacidae) in eastern Autralia re-examined using nucleotide sequences from 12S rRNA genes. Invertebrate Systematics 18: 215-225 (2004).



Comparative phylogenetic study of Genus *Macrobrachium* in Sri Lanka, South and Southeast Asian region: Hints for biodiversity conservation

Freshwater prawns *Macrobrachium* are a conspicuous and important component of freshwater and estuarine systems throughout tropical and warm temperature areas of the world. So far more than 200 species have been described around the world and there are more to be described. Javachandran (2001) listed 86 Macrobrachium species that are economically important and among them at least 11 species have gained great commercial value in different countries. Macrobrachium species are an economically important group in Sri Lanka too. M. rosernbergii is one of the major commercially important species while many other species are consumed in regional areas. Many species are recognized by their local names and many synonyms can be found for one species. Therefore, identification of species boundaries within this genus is important to obtain reliable information for fields such as aquaculture and environmental management.

In addition to the traditional morphometric characteristics such as rostrum and 2nd pereiopod, hard characters which are more consistent within the species and that are not variable with the sex and age of the individual were used to identify species during this study. Sequences for the recorded species that are related to the Sri Lankan species were obtained from the genebank. Partial sequences from mitochondrial 16S rRNA gene were used to determine the phylogenetic relationships among the species.

Seven Macrobrachium species were identified from the southern part of Sri Lanka during this study. Approximately 471bp sequences were used to determine their phylogenetic relationships with the species that are recorded within the region. The analysis formed five clades and three out of them produced monophyletic lineages (M. australe group, M. latimanus group, M. latidactylus group). M. malcolmsonii made a sister clade to M. rosenbergii while M. scabriculum joined with *M. idea*. The estimated intraspecific nucleodite divergence level varied from 0-6.07% while it is varied from 5.21%-10.84% for the interspecific level. However, the phylogenetic trees generated did not resolve the deeper level phylogenetic relationships. Therefore, more taxon sampling throughout the country and analysis of additional gene regions are required for the better understanding of phylogenetic relationships among Sri Lankan Macrobrachium species.

15 JULY 2009

2008

FELLOW

CECILIA TAMARA AVELLÁN HAMPE

BENEFICIARY COUNTRY

URUGUAY

COUNTRY OF STUDY

THE NETHERLANDS

PLACE OF RESEARCH

UNESCO-IHE
Institute for Water Education
Department of Environmental
Resources,
Delft, The Netherlands.

RESEARCH UNDERTAKEN

From 27 April 2009 to 26 July 2009.

ABOUT FELLOW

Born on 25 September 1980 in Buenos Aires, Argentina.

LAST DEGREE OBTAINED

Wayne State University, Detroit, USA: Master of Sciences Biology (28 August 2004).

SCHOLARLY WORK AND PUBLICATIONS

Integrated River Basin
Management as a mean to
prevent aquifer contamination,
4th World Water Workshop for
Young Environmental Scientists
(WWW-YES), Belo Horizonte,
Brazil (2009).

Development instability in Polygonum punctatum and Sagittaria montevidensis in a sewage impacted stream. Biological Sciences, Detroit Wayne State University (2004).

Pollution reduction through native Uruguayan helophytes and associated morphological changes in leaf symmetry, 8th INTECOL, International Wetlands Conference, Avellán, C.T.; Hough, R.A, Cuiabá, Brasil (July 20-25 2008).



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Constructed wetlands for use in Uruguayan dairy waste waters using endogenous plants

This fellowship gave me the extraordinary opportunity to spend three exhilarating months at one of the most important institutions worldwide that deal with water-related problems with special emphasis on developing countries and those in transition, the UNESCO-IHE Institute for Water Education. In my home country, Uruguay, I am developing the use of alternative sewage treatment facilities, in particular constructed wetlands, but little to nothing is known about the abilities and performance of native plants for such uses, which is why I directed myself towards the IHE for guidance and support two years ago.

In Delft, I was given the possibility of conducting topic specific research where we compared the root oxygen loss of four different wetland species, three of them native to Uruguay, and the changes in nutrient composition which showed that plants respond differently to sewage water. It was particularly interesting to see the high efficiency of water quality enhancement of two previously untested plants. This is very promising since it points to the ability of some endogenous plants to be highly successful for use in constructed wetlands in Uruguay.

Further, I undertook an experiment about the physical oxygen transfer rates in a gravel bed wetland mesocosm, which represents a clue element in the understanding of the functioning of these systems. This study was part of a series of studies that had been performed at the IHE and confirmed the previous findings. We were able to quantify the amount of oxygen that was exchanged with the atmosphere by using the innovative technique of propane as a tracer gas.

Nevertheless, the IHE is, in the first place, an educational facility and I therefore also had the chance to participate in the three-week short course "Water quality modelling" where I was introduced to some of the modelling tools for river and water quality management. such as SWAT. Through this class I have identified the necessary data to build a successful model for a small watershed in south western Uruguay and have contacted institutions and agencies in order to obtain this information to complete the model. This will be the first time that SWAT will be applied in Uruguay and I am confident that it will be used for other projects, such as the large River Santa Lucia Basin.

Lastly, one of the purposes of the stay in Delft was the interaction with my supervisors, professors and fellow students to exchange ideas and points of views on the thematic of sustainable sewage treatment facilities, the challenges of their realization and the success stories. This has certainly taken place and I was given ample opportunity to take part in several seminars, Ph.D defences and talks by guest speakers from all over the world. I also had the opportunity to further narrow down and clarify my research topic and Ph.D proposal which I will now proceed to write in the forthcoming months.

17 SEPTEMBER 2009

2008

FELLOW

MOHAMMED ABDULLAH AL-GHOBAR

BENEFICIARY COUNTRY

YEMEN

COUNTRY OF STUDY

UNITED STATES
OF AMERICA

PLACE OF RESEARCH

University of Nebraska-Lincoln, Institute of Agriculture and Natural Resources, Department of Agronomy and Horticulture, Ithaca, United States of America.

RESEARCH UNDERTAKEN

From 15 September 2008 to 14 March 2009.

 \boxtimes

alghobar@yahoo.com alghobar@maktoob.com ABOUT FELLOW

Born on 13 December 1976 in Damar, Yemen.

LAST DEGREE OBTAINED

Sana'a University, Faculty of Agriculture: MSC in Water Science Major in Soil and Water (27 May 2006).



Evaluation of Water Quality in Nebraska Using Watershed Modeling a case of study proposal in Nebraska State, USA. Nitrate and Ammonia Concentrations in Groundwater from Shallow Wells

Excess application of either commercial fertilizer or livestock waste to row crops, pastures, and even urban areas has been linked to high levels of nitrate in groundwater. Nitrate in the subsoil is then gradually leached downward as water percolates from the surface and recharges the underlying groundwater. Activities that have been shown to contribute to nitrate contamination in groundwater include excessive application of nitrogen fertilizer and leakage from wastewater impoundments.

This study was conducted in Nebraska State, USA, at a site located four miles north and two miles east of Central City, Nebraska. Lagoon characteristics earthen lined lagoon dimensions = 150 ft x 50 ft x 10 ft. Receivesrunoff from nine cattle pens each containing approximately 50 head. Site monitoring current Nebraska Department Environmental Quality (NDEQ) monitoring wells. Water samples were collected from shallow monitoring wells, medium monitoring wells and deep monitoring wells and the samples were analyzed at the Nebraska Department of Environmental Quality. Chemical and physical analysis was performed on the samples. Total and volatile solids, chemical oxygen demand, pH, EC, nitrate, ammonia concentrations, chloride, sulphate, acetate, methane (Microseens), dissolved methane. dissolved hydrogen, dissolved oxygen and iron (Fe).

The results of the research showed that nitrate-nitrogen concentrations exceed the 10 part per million maximum contaminant level (MCL) in groundwater beneath several areas of Nebraska. The concentrations exceeded the MCL in more than 20% of the wells sampled. Thus, nitrate is by far Nebraska's most frequently encountered groundwater contaminant. Poor well siting near barnyards and poor well concentration in these glacial till areas cause many of the nitrate-nitrogen levels to exceed the MCL; 51% of the elevated nitrate-nitrogen concentrations detections were in areas where the groundwater is highly vulnerable to contamination. Comparisons between previous surveys and this assessment indicate that the concentrations of nitrate in the irrigated corn-producing areas are increasing.

In areas highly vulnerable to contamination both concentrations and areal extent of the contamination are increasing.

The most important challenges that confront ground water quality are the ability to reverse the increases in nonpoint contaminant concentrations and evaluate the effectiveness of best management practices. Careful management of livestock lots and use of the proper rate of nitrogen are the most important factors, but other management practices also are important. Recommended practices that minimize the risk of contamination should be given careful and immediate attention.

14 APRIL 2009

FIELD OF STUDY 2007-2008

INTERCULTURAL DIALOGUE

"Partnerships for intercultural dialogue must be as wide as possible – with youth, with civil society, with the private sector. Academia is vital here. UNESCO has created some 30 Chairs in universities from Australia to Uzbekistan on topics related to intercultural dialogue, interfaith studies and interreligious understanding."

IRINA BOKOVA

DIRECTOR-GENERAL OF UNESCO

The Alliance of Civilizations Istanbul Conferences "Building Bridges to the Future", (Istanbul, 19 January 2011).

2007

YEAR 2008

FELLOWS

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KOFFI JULIEN GBAGUIDI

BENIN

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CHINMAYEE SATPATHY

INDIA

P.70

PAULINE MOUHANNA

LEBANON

P.72

AIVARAS STEPUKONIS

LITHUANIA

FELLOWS

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JIANPING YANG

PEOPLE'S REPUBLIC OF CHINA

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ISTVÀN SANTHA

HUNGARY

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IBRAHIMA DIOUF

SENEGAL

P.82

HEND JABBES

TUNISIA

2007

FELLOW

KOFFI JULIEN GBAGUIDI

BENEFICIARY COUNTRY

BENIN

COUNTRY OF STUDY

TOGO

PLACE OF RESEARCH

University of Lomé Faculty of Arts and Human Sciences (FLESH), Lomé, Togo.

RESEARCH UNDERTAKEN

From 3 September 2007 to 3 March 2008.

ABOUT FELLOW

Born on 4 April 1973 in Yakassó, Côte d'Ivoire

LAST DEGREE OBTAINED

Université d'Abomey-Calavi, Faculty of Arts and Human Sciences –FLASH - EDP, Linguistics Department, Benin: Postgraduate diploma (Diplôme d'études approfondies, D.E.A) (28 July 2005).

SCHOLARLY WORK AND PUBLICATIONS

Cognition et perspectives didactiques du Fa pour le développement humain [Cognition and educational prospects of Fa for human development], Proceedings of the 26th West African Linguistics Congress, Winneba, Ghana (2008).

Aspects sémiotiques de l'hymne national en langues fon [Semiotic aspects of the national anthem in Fon languages], Perspectives et Sociétés, CAREDE (African Crossroads of Research and Exchanges for Development), Benin (2009).

Fa et le développement humain durable [Fa and sustainable human development], Proceedings of the International Seminar on the granting of heritage status to local knowledge for innovation in Africa, University of Lomé (October 2009).



gkjulio@yahoo.fr



Vodun Culture – Interculturality and Globalization: some suggestions for UNESCO and Scholars

The study was conducted as part of the UNESCO/Keizo Obuchi Research Fellowships Programme and the philosophical framework of the contribution to intercultural dialogue. Carried out in Togo and Benin, it focused on the role of Vodunism in the construction of a common spiritual ideal (ISC) and on the attitude of intellectuals towards this traditional religion of Black Africa, particularly in Benin and Togo.

The purpose of the study was to show that Vodun, a primitive religion whose precepts have been subsumed in other religions, was therefore a cross-cutting religion that was crucial to world peace. It also aimed to show that the Vodun deities Sakpata (Earth), Tohossou (Water), Dan (Air), Hebiosso (Fire) and the four mother signs of Fa (Gbe-meji (Light), Yeku-meji (Dark), Woli-meji (Rest) and Di-meji (Activity)) were one with God, who used them for His many creations.

The study was conducted according to the Louis-Vincent Thomas convergence method (1966), in which culture is approached from the threefold perspective of linguistics, anthropology and theology. The sample subjects were 134 scholars, including students and teachers.

The respondents ranked world religions by order of preference as follows: (1) Christianity, (2) Islam, (3) Vodun, (4) Judaism, (5) Buddhism, (6) Hinduism, (7) Rosicrucianism, and (8) Eckankar. Furthermore, it is worth noting that out of the 109 Christians, 15 Muslims, 5 Vodunists and 5 followers of other faiths questioned, 67 acknowledged that Vodun was beneficial to human development and 42 were partial to Fa divination.

The findings are indicative of syncretistic practices among respondents. In any case, the crucial point is the maintenance of peace through convergence among the religions of the world.

Thus, through its future conventions, UNESCO may propose that "spirituality" be introduced as a discipline in education curricula in order to increase learners' knowledge of the world's religions. Lastly, the study invites scholars from Benin, Togo and other countries to understand that Vodun and Fa can be influential in the awakening and elevation of the human person through their pharmacopeia, music, gastronomy, literature and politics. The contribution of Vodun and Fa to globalization can therefore be said to positive to all humankind.

17 APRIL 2008

TRANSLATED FROM FRENCH BY UNESCO

2007

FELLOW

CHINMAYEE SATPATHY

BENEFICIARY COUNTRY

INDIA

COUNTRY OF STUDY

UNITED STATES
OF AMERICA

PLACE OF RESEARCH

University of South Florida,
Department of Communication,
Tampa, Florida,
United States of America.

RESEARCH UNDERTAKEN

From 17 November to 16 July 2008.

ABOUT FELLOW

Born on 8 July 1972 in Orissa, India.

LAST DEGREE OBTAINED

Utkal University, Vanivihar, Bhubaneswar Orissa, India: PhD in Sociology (16 November 2006).

SCHOLARLY WORK AND PUBLICATIONS

Research project undertaken relating to the topic "situation of women informal workers in the district of Mayurbhanj, Orissa", India, under the sponsorship of the National Commission for Women, New Delhi, India.
"Discrimination and atrocity against women in Orissa", PhD thesis, India 2006.



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Santal & Seminole: A Comparative Cross-Cultural Study

The present research study is quite interesting and fascinating. It deals with the comparative cross-cultural analysis of the two tribes Seminole and Santal living in two different geographical and socio-cultural settings. Seminole is one of the indigenous Amerind (Indian) tribes of the state of Florida in the United States whereas Santal is one of the largest (population-wise) tribes in India. The researcher tried to make a comparison between the two on the basis of certain similar as well as dissimilar characteristic features relating to their origin, growth and development, economic features, cultural tradition, socio-political organization, etc.

It has been observed that the two tribal communities. Santal and Seminole, are civilized tribes in India and the United States. During the research study, the researcher found that though the two tribal communities live in two different countries, most of the tradition, customs and rituals cherished by them are more similar than dissimilar in nature. In both the cases the clan and kinship bonds derived from the natural clan objects, between which the marital relationship is strictly prohibited. Similarly, the rituals relating to death of the person and to the name-giving ceremony are observed in both the tribal communities. Agriculture is a way of life for both the tribes since most of the ceremonial observations centered around sowing, harvesting, etc.

The tribes fought against the British at different times to uphold their rights over land and control other resources. Over the years the process of development has been so rapid that the younger generations are gradually assimilated with the mainstream and have adopted a new way of life, to a significant extent leaving behind their tradition, customs and ethnicity.

20 JULY 2009



2007

FELLOW

PAULINE MOUHANNA

BENEFICIARY COUNTRY

LEBANON

COUNTRY OF STUDY

FRANCE

PLACE OF RESEARCH

University of Paris II Panthéon-Assas Institut Français de Presse, Paris, France.

RESEARCH UNDERTAKEN

From 3 October 2007 to 6 April 2008.

ABOUT FELLOW

Born on 11 September 1980 in Lebanon.

LAST DEGREE OBTAINED

University of Paris II – Panthéon-Assas: Master 2, Information and communication (2007).

SCHOLARLY WORK AND PUBLICATIONS

Les Libanais fuient leur passé en croyant l'oublier [The Lebanese are running away from their past by thinking it is forgotten], L'Hebdo magazine (24 December 2004).

La société coupable du dilemma [Society is to blame for the dilemma], L'Hebdo magazine (23 December 2004).

Le Liban au centre de l'Union pour la Méditerranée: Une place à reconquérir [Lebanon – reclaiming its place at the centre of the Union for the Mediterranean], L'Hebdo magazine, Lebanon (6 February 2009). Île-de-France, la région où les associations sont les plus actives pour le Liban [Île-de-France (Greater Paris), where pro-Lebanon associations are most active], L'Orient le Jour, "Lebanese around the world" column, Lebanon (3 November 2010).

Les juifs libanais installés en France: Cher pays de mon enfance... [Lebanese Jews in France – beloved country of my childhood], L'Hebdo magazine, Lebanon (1 May 2009).



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Lebanese migration to France: a factor of cultural integration or an obstacle to pluralism? Franco-Lebanese cultural associations in Île-de-France (Greater Paris)

This research project focuses on "Lebanese immigration in France and its repercussions on intercultural dialogue in Lebanon". In our research in France, we examined Franco-Lebanese associations and their impact on intercultural dialogue in Lebanon.

Associations under the French law of 1901 have long been a preferred medium for action by the Lebanese diaspora in France.

Historically, ever since the first waves of Lebanese immigrants came to France, they formed associations.

Today, there is a quite a large number of Franco-Lebanese associations in all regions of France, with a high concentration in Île-de-France (Greater Paris). We selected the associations on the basis of a number of criteria, namely constant ties with Lebanon, a website as an indispensable tool for maintaining relations with their country of origin, involvement in culture, an apolitical vocation and genuine activism, which was not always the case. In all, nine cultural associations fell within the scope of our study, including two humanitarian associations known as Lebanus and Cèdre sur Seine [Cedar upon Seinel, two student associations - the Association of Lebanese University Students in France and the Union of Lebanese Students in Paris, the Anta Aki France charity, the Leb Touch social association, an intercultural association known as the Association for intercultural interfaith and dialogue, a political association known as the Union of Lebanese Citizens and Friends of Lebanon and, lastly, in the media, the Franco-Lebanese Inter-professional Group.

We examined the reasons for which each association was established, its operation and its interaction with Lebanon.

We also observed the difficulties encountered. in particular in working between Lebanon and France. Our findings have shown that these associations are not considered to be equally important within the Lebanese Diaspora in France, nor do they promote Lebanon in the same manner. Some sorely lack funding while others can obtain grants and organize activities for Lebanon. We also found that some make optimum use of their websites as a meeting place for Lebanese immigrants and those still living in Lebanon. We also noted that the associations experienced difficulties in cooperating both with Lebanese public institutions and with each other.

In conclusion, the main contribution of this study is its compilation of a list of these associations, particularly those based in Île-de-France (Greater Paris) – an unprecedented undertaking that is of prime importance for Lebanese institutions wishing to work with immigrant associations in France. The research also reveals how difficult it is for an apolitical cultural association to be a stakeholder within the Diaspora, especially in comparison with party-affiliated associations, which have no lack of human, financial, and technological resources.

15 SEPTEMBER 2008

TRANSLATED FROM FRENCH BY UNESCO



YEAR

2007

FELLOW

AIVARAS STEPUKONIS

BENEFICIARY COUNTRY

LITHUANIA

COUNTRY OF STUDY

UNITED STATES OF AMERICA

PLACE OF RESEARCH

University of Hawaii College of Arts and Humanities, Department of Philosophy Honolulu, Hawaii, United States of America.

RESEARCH UNDERTAKEN

From 28 September to 27 December 2007.

ABOUT FELLOW

Born on 28 September 1972 in Kauno, Kacergine, Lithuania.

LAST DEGREE OBTAINED

"Kulturos, filosofjos ir meno institutas" (The institute of Culture, Philosophy and Art), Vytautas Magnus University Vilnius, Lithuania: PhD in Philosophy (22 April 2005.).

SCHOLARLY WORK AND PUBLICATIONS

A critique of the Ideas of a World Philosophy: Philosophical and Historiographical Projects in the Comparative Movement of Honolulu, PhD Dissertation, The Institute of Culture, Philosophy and Art, Vytautas Magnus University, Lithuania (2005)

Pavergto mąstymo problema: Maxas Scheleris ir žinojimo sociologijos ištakos, Vilnius: Kultūros, filosofijos ir meno institutas, 2005, p.300, ISBN 9986-638-65-8, Lithuania (2005).

The idea of a World Philosophy in the East-West Philosophical Context. Dialogue and Universalism. Vol. XIII., No.162/ 2003, PL ISSN 1234-5792, Lithuania (2003). Marxo ir Engelso visuomeninės pažinimo teorijos link ir aplink. I dalis. – Logos, Nr.37, 2004, p.79-91, ISSN 0868-7962, Lithuania (2004).



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One World – One Philosophy? Global Perspectives in the Contemporary Humanities

My research was carried out at the Department of Philosophy, University of Hawaii, between 28 September 2007 and 27 December 2007. The purpose of the research was to collect the materials needed for the completion of my forthcoming monograph *One World – One Philosophy? Global Perspectives in the Contemporary Humanities*.

During the three months that I spent at the University of Hawaii, I met Professor Roger Ames, Eliot Deutsch, Tamara Albertini and others. We pusued a series of interesting discussions on diverse issues of comparative philosophy, as these have been raised and developed by the Honolulu movement of comparative philosophy.

The University of Hawaii granted me a staff-faculty ID card that allowed me to use the rich resources at Sinclair and Hamilton libraries. The many hours that I spent in those facilities of learning were very rewarding, I scanned and/or photocopied a number of books and articles that bore directly upon my research. I also used the opportunity, every now and then, to digress and look into literature that might constitute a development of my present intellectual endeavours.

The staff-faculty ID card also gave me access to online databases available only to the students, faculty and staff of the University of Hawaii. This helped me to concentrate on the newly emerging and expanding pool of electronic publications. Some of the databases had not been known to me previously. It was a very positive exposure indeed.

I was also given permission to use the resources at the East-West Center, the main catalyst and promoter of the East-West Philosophers' Conferences, although the Center itself is not part of the University of Hawaii. That came as a pleasant surprise and a bonus to my research programme.

Of course, it was impossible for me to read all of the materials that I gathered for the completion of my research. The best part of the collected literature had to be shipped to Lithuania for perusal there until the monograph is finished. Doubtless, I will share those resources with my colleagues at Kult_ros, filosofijos ir meno institutas (Institute of Culture, Philosophy, and Art), as well

I cannot thank you enough for granting me the fellowship. It has served its purpose entirely. My visit to the University of Hawaii was rich not only in terms of academic results, but also as a fresh and illuminating cross-cultural experience. Thank you one more time!

18 FEBRUARY 2008



INTERCULTURAL DIALOGUE WHAT THE FELLOWS SAY



IBRAHIMA DIOUF SENEGAL, 2008

"My fellowship has had a very positive impact, in that it would otherwise have been impossible for me to carry out my research properly, especially in France, where I found the most documents on Ancient Rome. It has enabled me to write up my thesis".



KOFFI JULIEN GBAGUIDI BENIN, 2007

"Owing to the UNESCO/Keizo Obuchi Fellowship, I am now a craftsman committed to world peace, through the lessons, drawing on intercultural dialogue, that I teach in universities".



HEND JABBES TUNISIA, 2008

"Owing to the UNESCO/Keizo Obuchi Fellowship funds, I have completed my field research on promotion through education of interfaith and intercultural dialogue".



PAULINE MOUHANNA LEBANON, 2007

le Jour an article on Franco-Lebanese associations and their impact on Lebanon. That article has been used by several sites. The article published as a result of my study has had an impact on Lebanon because it has made associations working in Lebanon's interest aware of their difficulties, and above all helped them communicate with each other'.

"I have published in Orient



AIVARAS STEPUKONIS

"The Keizo Obuchi Research
Fellowship, administered
by UNESCO, made it possible
for me to visit the University
of Hawaii, that academic
hub of comparative philosophy
which not only provided
me with a cherished wealth
of information but also
challenged and enriched me
with fresh and illuminating
cross-cultural experiences".



YEAR

2008

FELLOW

JIANPING YANG

BENEFICIARY COUNTRY

PEOPLE'S REPUBLIC OF CHINA

COUNTRY OF STUDY

UNITED STATES
OF AMERICA

PLACE OF RESEARCH

Harding University, American Studies Institute Arkansas, Searcy, United States of America.

RESEARCH UNDERTAKEN

From 30 January to 29 September 2009.

ABOUT FELLOW

Born on 24 May 1973 in Shanxi, China.

LAST DEGREE OBTAINED

Zhejiang University: Master of Arts; Graduate Diploma in linguistics and applied linguistics (3 March 1999).

SCHOLARLY WORK AND PUBLICATIONS

Thesis Master's degree: A Comparative Study of Overseas Chinese Students view of Christianity and American Christian's view of Christianity in China.





A comparative study of Chinese intellectuals' understanding of Christianity and Americans' view of Chinese religious belief

This study sought to gain an idea of overseas Chinese students' view of Christianity and how it differs from American Christians' understanding. A survey was conducted of 100 Chinese overseas students and 67 responses were received. The study among American Christians was carried out mainly by means of formal and informal interviews. Some were face to face and others via the Internet. That part of the study failed to produce many responses because of people's reluctance to participate. But it may still point to some tendency in American Christians' understanding of Christianity in China.

Questions in the survey among Chinese students focused mainly on four topics: experience with Christianity; expectations of the development of Christianity in China; their values and their understanding of Christian values; and their interpretation of some doctrines. A parallel survey was conducted among American Christians.

The study showed that 90% of the respondents had taken part in Bible studies since coming to America. The reason for doing so was mostly to "understand the native culture", to "know more about Christianity" and to "improve proficiency in English".

Half of the students claimed that what impressed them most about Christianity was Christian values. Values like "Personal accomplishment is not an accumulation of how much one achieves, but justice, fairness and joy in the Holy Spirit" and "Work is a tribute to life and is the source of happiness" were those showing the highest percentage of identification.

Of the Chinese respondents, 81% stated that there was a demand for faith in contemporary China. Only 27% of the students felt that Christianity should be assimilated into Chinese culture. The survey among American missionaries showed that 7 out of 10 believed that Christianity should be assimilated by and become part of Chinese culture. The Chinese students seemed to be more open to a diversified culture than Westerners think.

Questions about the Chinese students' values showed a strong tendency towards individualism. What they considered to be the most unacceptable teaching of Christianity was that "Christians should live for the Lord." Even Chinese Christians found it difficult to accept that idea.

Three Chinese theological interpretations were given to gauge their acceptability among Chinese students and American Christians. Most Chinese respondents identified with the statements, but responses varied among American Christians. The Chinese view of Christianity takes more of a humanistic approach; their feeling towards holiness and eternal life is not as deep as that of American Christians.

Despite differences in beliefs, there is also common ground on which Chinese people's beliefs and Christian values concur. I hope that my effort in carrying out this research can contribute in some measure to the enhancement of understanding between Chinese and American culture.

18 JANUARY 2010



YEAR

2008

FELLOW

ISTVÁN SANTHA

BENEFICIARY COUNTRY

HUNGARY

COUNTRY OF STUDY

RUSSIAN FEDERATION

PLACE OF RESEARCH

Centre for Independent Social Research, St. Petersburg, Russian Federation.

RESEARCH UNDERTAKEN

From 1 September 2008 to 31 May 2009.

ABOUT FELLOW

Born on 28 February 1968 in Szmobathely, Hungary.

LAST DEGREE OBTAINED

Elte University, Budapest, Hungary: PhD in Mongolian Linguistics (1 July 2004).

SCHOLARLY WORK AND PUBLICATIONS

Ethos of Evenki People in Eastern Buryatia: Companionship and Pokazukha. Working paper MPI for Social Anthropology, Halle/Saale, Germany (2007).

Bright future: living without electricity as a new experience of Evenki village youth in South Siberia. Generation P in the Tundra (2008).

Intergenerational relations in an Evenki community, Max Planck Institute for Social Anthropology, Report 2004-2005, pp. 273-275, Halle (2006).



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Loosing Culture: the Evenkis in Russia

The first field site was the Evenki village. In 1940s it was the place of the resettlement of the local nomadic Evenkis. Here we can also find Buryats and Russians. The main economic activities here are cattle breeding and hunting. Some individuals move as seasonal workers to other parts of the district.

The first generation of Evenki intelligentsia had never made any decision about their own career. They recognized the things relating to their life or career as facts which they should not change. They did not need to find the balance between being Evenki and being a stranger. They simply needed to accept the strangers' values. They did not perceive and resolve the problem that being Evenki and serving strangers' interests was contradictory. Representatives of the second generation already needed to recognize troubles and had to manage their lives, which already did not always match the strangers' expectations. They often needed to be flexible, which was previously a crucial skill for the Evenkis.

In the taiga, a certain rhythm of Evenki being could be recognized. In one period so much food is available: in another starvation is the norm. The question is how long one or the other period lasts in a certain season of the actual year. But changing from one to another period is necessary and the Evenkis make themselves comfortable with this. In the periods of plenty they do not save rationally; they rather run down food stocks as quick as possible. Saving is not an Evenki strategy; necessity is much more natural for them. And the Evenkis become active and begin to choose strategies not to be seen in another period. These unexpected and unpredictable actions are extremely effective.

Each relation is based on personal autonomy. They do not expect anything from anybody. And it is not contrary to Evenki being that an Evenki could not live without long-term relations with a stranger. I think that these relations are necessary not from rational but from social considerations. They sometimes simply need to meet a stranger.

These meetings also lend rhythm to their lives. As a consequence of the recent global economic crises, the taiga became empty. The stores run out and nobody takes the risk of opening new mines, new enterprises. There is nobody with whom the Evenkis could trade or meet in the taiga; only the competing poachers, of whom the Evenkis are very suspicious, go to the forest. The Evenkis do not believe them, but they have no choice because there is no other chance to enter into relations with strangers.

Nomads cannot be sure that their children or relatives will really continue their taiga life. A still hardly understandable background institution can be seen which supports individuals who at some time are potentially able to start to live in the taiga. Taiga people in one period of their life live in the village, later returning to the forest. Some individuals from the village visit their taiga relatives more and more often, which is a sign that they may also at some point begin to live in the taiga.

15 FEBRUARY 2010

YEAR

2008

FELLOW

IBRAHIMA DIOUF

BENEFICIARY COUNTRY

SENEGAL

COUNTRY OF STUDY

FRANCE

PLACE OF RESEARCH

Université Marc Bloch UFR des Lettres Centre d'analyse des Rhétoriques Religieuses de l'Antiquité (C.A.R.R.A.) Strasbourg, France.

RESEARCH UNDERTAKEN

From 7 April 2009 to 6 January 2010.

ABOUT FELLOW

Born on 25 February 1968 in Keur-Gane, Senegal.

LAST DEGREE OBTAINED

Cheikh Anta Diop University. Master's degree in sociology (7 January 2004).



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Traditional magico-religious and cultural practices in Rome and Serer society: a comparative study

Investigations carried out in Serer society and the documents consulted both in Senegal and France enabled us to group information on the traditional magico-religious beliefs and practices of Romans and Serers into four main parts.

The first part is a general presentation of Ancient Rome and Serer society. It outlines the methodology used, the definition of key concepts (holiness, religion, worship, rite, sacrifice, prayer), the geographical location of both environments, the topography and hydrography, and the social, administrative and economic organization of both peoples. The concepts of holiness and prayer evolved with time and the prevailing ideas among the peoples, but these concepts had almost the same meanings for the Romans as for the Serers. In physical terms, there are notable differences between Ancient Rome and traditional Serer society, but with regard to social, administrative and economic organization, marked similarities have been observed. Both peoples were farmers with distinct socio-professional structures. This physical organization accounted for the agrarian and highly ritualistic nature of their traditional religions.

The second part refers to gods of the sky (Jupiter, Juno, Diana), gods of the earth (Janus, Mars, Quirinus, Saturn, Vesta, Ceres), gods of water and deified abstractions, triads (association of three gods) and places of worship (inaugurated, not inaugurated, public, private).

Taken separately, Roman gods had no counterparts in Serer society, but comparisons may be made with regard to triads. Roman gods each had a specific domain whereas the scope of intervention of Serer pangools (spirits) was unlimited. Triads fulfilled the three functions of justice, protection and production.

The third part covers the foundations of beliefs, the meaning of death and cleansing, interdictions and taboos, communication between gods and humans (oracles, omens, prodigies), divination, dream interpretation, the categories of priests (major, minor), the criteria and method for recruiting them and their mission.

There was also a parallel between Romans' and Serers' conception of death, cleansing practices, the respect of interdictions and taboos and relationships with gods. Death was considered a stain that had to be removed; the violation of interdictions and taboos was an offense for which atonement had to be made.

The fourth part is devoted to the different rites (magical and religious), the types of sacrifice (blood or bloodless), the selection of victims, the performance of the act, the functions of these practices (expiatory or propitiatory), prayers and victory celebrations. The layout of holy places, worship, the form and significance of sacrifices and prayers were identical for Romans and Serers in the past. There were major similarities in their victory celebrations. Both in Rome and in Serer society, any occasion was an opportunity to offer sacrifices and recite prayers, which were ceremonies led by specific priests.

7 JANUARY 2010



YEAR

2008

FELLOW

HEND JABBES

BENEFICIARY COUNTRY

TUNISIA

COUNTRY OF STUDY

FRANCE

PLACE OF RESEARCH

University Paris X – Nanterre Laboratoire du Centre de recherches éducation et formation (CREF) Laboratoire secteur Crise Département de sciences de l'éducation, Paris, France.

RESEARCH UNDERTAKEN

From 2 September 2008 to 1 June 2009.

ABOUT FELLOW

Born on 22 February 1976 in Tunis, Tunisia.

LAST DEGREE OBTAINED

University Paris-Sud XI, Orsay, France: Postgraduate diploma (diplôme d'études approfondies DEA) in Educational Sciences (11 october 2004).

SCHOLARLY WORK AND PUBLICATIONS

Le choc culturel, l'une des principales causes du stress humanitaire, Paris, France. (16 March 2006).

Le stress cumulatif et posttraumatique du personnel humanitaire sur le terrain et les stratégies d'y faire face: les stratégies de 'coping', Doctoral thesis. University Paris X, Paris, France.

Participation in the elaboration of a Log Book for humanitarian field workers: *Stress management in insecure environments* with the Centre of Humanitarian Psychology. Geneva (July 2006).



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Promoting interreligious and intercultural dialogue through education: heuristic aspects of reconciliation mechanisms

Cultural diversity is now an integral part of every society. Behind the promotion of "intercultural dialogue" is a drive to make this diversity a source of mutual enrichment, understanding, reconciliation and tolerance. This research project focused on the role of education in promoting an open approach to others. The work of educational staff, particularly in post-conflict countries, is key to understanding contemporary forms of violence and to educating young generations to be more open to the cultural diversity that will structure their country. Teachers and instructors are in an ideal position to promote the benefits of cultural diversity and interreligious dialogue by teaching new generations about tolerance and accepting others.

The following methodology was used. Research was carried out in two countries which, though diametrically opposed in many ways, demonstrate, as intended by our study, that most conflicts in the world today are caused by a complete breakdown in dialogue between religious and ethnic communities – according to UNESCO's 2000 World Culture Report, 86 out of 92 of the world's current conflicts stem from internal causes. In this context, diversity is a tool to meet the challenges of globalization, not a source of dispute.

We began the first part of our study in Thailand, where we actively observed interaction within Buddhist, Muslim and Christian communities in the city of Ayutthaya over a two-month period. Working in close collaboration with teachers and instructors from different religious schools, we were able to obtain very encouraging results which may help us better understand why this country has not experienced inter-community strife the same way other countries in the region have over several generations (India or Sri Lanka, for example).

The second part of our study was carried out in Lebanon. Examining the case of Lebanon is of paramount importance: the country is a unique example and an essential component of research into intercommunity and interreligious dialogue.

Work in Lebanon began in close collaboration with Offre Joie, one of the few Lebanese non-governmental organizations which operates locally with the country's different communities. Offre Joie is a non-political association which for 20 years has worked for unity and civil participation by bringing together Lebanese youths of all faiths and origins to share and work together on social projects. Following this initial groundwork with Offre Joie, we then conducted one-on-one interviews with academics, political figures and teachers whose area of work is intercommunity dialogue in post-civil war Lebanon. Our goal was to highlight their longstanding and ongoing efforts to change attitudes by re-establishing dialogue between communities and encouraging mutual forgiveness.

18 FEBRUARY 2010

TRANSLATED FROM FRENCH BY UNESCO

FIELD OF STUDY 2007-2008

INFORMATION & COMMUNICATION TECHNOLOGIES

"New information and communication technologies (ICTs) and broadband, in particular, have indeed revolutionized the way in which people acquire and share information. This has an impact on all UNESCO's fields of competence – education, science, culture and communication and information."

IRINA BOKOVA

DIRECTOR-GENERAL OF UNESCO

Broadband Commission for Digital Development's presentation of the Final Report and Declaration to the UN Secretary-General (New York, 19 September 2010).

YEAR

2007

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JOSEPH KIZITO BADA

UGANDA



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2007

FELLOW

PHAL DES

BENEFICIARY COUNTRY

CAMBODIA

COUNTRY OF STUDY

GERMANY

PLACE OF RESEARCH

Dresden University of Technology, Faculty of Computer Science, Institute of Systems Architecture, Dresden, Germany.

RESEARCH UNDERTAKEN

From 30 September 2007 to 29 March 2008.

ABOUT FELLOW

Born on 5 July 1970 in Battambang, Cambodia.

LAST DEGREE OBTAINED

Université Libre de Bruxelles [Free University of Brussels]: Diplôme d'Etudes Spéciales en Informatique Appliquée aux Sciences de l'Education [degree in computer science applied to education sciences] (26 october 1998).

SCHOLARLY WORK
AND PUBLICATIONS

Conception et test d'un prototype de dictionnaire multimédia français-khmer [Design and Testing of a Prototype French-Khmer Multimedia Dictionary], Mémoire de fin d'études spécialisés [Dissertation], Université Libre de Bruxelles [Free University of Brussels], Belgium (1998).

Learning Software MyClass http://www.khmermyclass.org (Software designed by a team under the supervision of Phal Des).

Articles about IT in Cambodia available at:
http://www.itcommittee.org



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System Support for Mobile and Distributed Multimedia Computing

The research is composed of three phases. The first phase was from 30 September 2007 to 30 November 2007. It focused on transferring existing teaching material to distributed systems, mobile computing and software prototyping developed at the University of Technology of Dresden. That material was to be used and assessed at the Royal University of Phnom Penh (RUPP). Even though our research had not yet completed all phases, we assumed that we would have some course materials such as slide script and video on-demand relating to mobile communication, embedded and distributed systems and Internet and Web applications as new courses to be developed, integrated and taught at RUPP, with the assistance of special lectures by Professor Dr Alexander Schill in June or December 2008 after the final phase.

In the second phase, we set up and tested software with two ISPs and different gateways. One was Internet Broadband with a connection speed of 128Kb, and the other was IPstar, with a speed of 512Kb. We also taught the course to the Master's students on the topic of Advanced Network Programming based on JAVA language technology. At the end of that phase, we set up a new wireless network infrastructure with the latest wireless LAN system using OFDM technology, which provides speeds of up to 54Mps for local networks.

The final phase of our research focused on experimenting with Java 2 Micro Edition (J2ME) and open source software such as the Sun Wireless Toolkit and the EclipseMe plugin of the Eclipse Integrated Development Environment (IDE). MIDlets and Java-based multimedia applications for devices were

developed by using the Mobile Multimedia API (MMAPI).

Working with audio and video files was the most exciting part of our research. We learned how to play simple single tone and to create and distribute more complex tones and tone sequences. This required prior knowledge of music theory to understand the concepts behind tone generation. We also learned how MIDI worked and looked into an overview of its message structure.

This work enabled us to see all the capabilities provided by the MMAPI to support audio capture or live radio streaming, video capture to video playback, synchronized audio and video, or simple snapshots.

Various devices support different formats and protocols, but the basics of using these varied formats and protocols remain the same. We covered all of the various media types that were supported by MMAPI by focusing on the two main types: audio and video. We learned to query, display, control, record, save and stream these two types of media by using a variety of examples.

Results and future work

To sustain this project, we are developing a Mobile Health Care System by collaborating with the Computer Networks Department at Dresden University of Technology, Germany, and the IT Centre at the Royal University of Phnom Penh, Cambodia. It was one of 20 out of 70 to be invited to Brussels to make a presentation at the 2008 Euro-South East Asia Cooperation Forum on ICT Research on 6 and 7 October 2008.

21 AUGUST 2008



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2007

FELLOW

DAWIT TIBEBU TIRUNEH

BENEFICIARY COUNTRY

ETHIOPIA

COUNTRY OF STUDY

SOUTH AFRICA

PLACE OF RESEARCH

Cape Peninsula University of Technology, Faculty of Informatics and Design, Bellville, South Africa.

RESEARCH UNDERTAKEN

From 22 October 2007 to 21 May 2008.

ABOUT FELLOW

Born on 22 February 1982 in Bahir Dar, Ethiopia.

LAST DEGREE OBTAINED

Addis Ababa University: M. Ed in Information and Communication Technology (10 August 2006).

SCHOLARLY WORK AND PUBLICATIONS

Relationship between
Teachers' Sense of Efficacy
and their Classroom behavior,
Bahir Dar University Research
and Publication Office,
Ethiopia (2004).

Challenges to Integration of ICT into teaching and Learning: The case of Addis Ababa University, (Final research work for Master's degree).



dawittibebu@yahoo.com



Integration of Information and Communication Technology into the Teaching and Learning Process at Bahir Dar University

Recognizing the need for participation in the knowledge society and as a response to some of the challenges being faced, Bahir Dar University (BDU) has been taking steps to introduce information and communication technology (ICT) in the education system. BDU has now begun to spend more on ICT, despite resource constraints. However, there was almost no evidence to show how the investment in ICT was supporting the teaching and learning process in the University. The purpose of this study was therefore to examine the current status of ICT use and to point out possible strategies for effective use of ICT in the teaching and learning process in BDU. The 4-E Model of ICT implementation, which was developed by Collis and Moonen (2001), is used as a theoretical framework throughout the study. As indicated in the 4-E Model, there are four factors, environment, educational effectiveness. ease of use, and (personal) engagement, that predict an individual's likelihood of making use of a technological innovation for a learningrelated purpose. In relation to these four factors, four research questions were formulated: 1/ To what extent are the institutional conditions

1/ To what extent are the institutional conditions suitable for ICT use in teaching and learning?
2/ How does the University perceive itself in terms of using ICT in the education system?
3/ What are the ICT tools available for using ICT in teaching and learning?

4/ What is the instructors' attitude towards using ICT tools for teaching and learning purposes? All of the research questions related to one of the Es and the framework served as a basis for collecting relevant data that helped to answer the research questions. Appropriate data were collected from instructors, officers and management at different levels. Questionnaires, interviews and document analysis were used as

data gathering instruments. The findings of the study revealed the current status of ICT use in teaching and learning at BDU, the readiness and support of the management, perception of the management, assessment of the ICT infrastructure, the attitude of instructors towards ICT use, and factors that hinder ICT use by instructors in the teaching-learning process. In terms of the environment (institutional context), the findings showed that many of the sub-factors were not in place: the University had not yet developed a clear policy on how ICT could help to achieve BDU's vision, the management was not providing all of the necessary support for integrating ICT into the education system and current ICT use in the University was below average. This shows that the environment in BDU was not suitable for proper ICT use. The ease of use factor was not adequately addressed in BDU. The findings showed that the existing network infrastructure did not adequately support instructors in effectively using ICT in the teaching and learning process. The majority of the instructors do not have adequate access to the Internet (both on campus and at home), appropriate software and hardware or a computer at home. However, the other two Es, educational effectiveness and engagement, seemed to exist adequately in BDU. The findings showed that the management strongly believed that ICT could have a long- and short-term effect in supporting BDU's education system. Regarding the engagement factor, instructors' attitude towards ICT was found to be significantly positive. On the basis of the findings, conclusions and recommendations were formulated with a view to improving the use of ICT in the teaching and learning process at BDU.

16 DECEMBER 2008



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2007

FELLOW

AMJAD REHMAN KHAN

BENEFICIARY COUNTRY

PAKISTAN

COUNTRY OF STUDY

MALAYSIA

ABOUT FELLOW

Born on 26 February 1970 in D. I. Khan, Pakistan.

LAST DEGREE OBTAINED

Gomal University, Dera Ismail Khan, N.W.F.P., Pakistan: Master of Science in Computer Science (4 January 1993).

PLACE OF RESEARCH

Universiti Teknologi Malaysia (University of Technology, Malaysia), Department of Computer Science and Information System, Negeri Johor Darultza'Zim, Malaysia.

RESEARCH UNDERTAKEN

From 1 September 2007 to 31 May 2008.



amjadbzu2003@yahoo.com



Intelligent Knowledge Acquisition and Extraction Techniques for Neural Expert Systems Based on Machine Learning Techniques

Off-line unconstrained cursive handwriting has been a popular field of research for many decades. After forty years of intensive research, it still remains an open problem. The challenging nature of handwriting recognition has attracted researchers from industry and academia. The commercial sector has shown significant interest in handwriting recognition research, owing to the large number of applications such as bank cheque processing, tax form processing, admission form processing, and so on.

In recent years, techniques for recognizing handwriting have become more sophisticated in order to deal with real-world situations and to increase recognition rates.

Preprocessing techniques play a vital role in increasing the recognition rate of unconstrained off-line cursive handwriting. This research reviewed all aspects of preprocessing techniques, including line removal, slant correction, skew correction and core-zone detection. Segmentation of cursive handwriting is also a crucial step in the entire process, which is the focus of this research and which is examined thoroughly. Two novel techniques for segmenting off-line unconstrained cursive handwriting are being proposed and research papers are being produced, submitted and accepted in local and international conferences. Furthermore, one paper has also been submitted and accepted in the International journal of image processing. In addition to research, experiments are under way into skew removal, slant removal and line removal. Another research goal is to propose more preprocessing techniques in terms of feature extraction for recognizing segmented characters.

The following research papers were produced during the fellowship:

1/ Amjad Rehman and Dzulkifli Mohammad (2008). A Simple Segmentation Approach for Unconstrained Cursive Handwritten Words in Conjunction with the Neural Network. International Journal of Image Processing. Vol. 2, Issue 3, 29-35;

2/ Amjad Rehman and Dzulkifli Mohammad (2008). Off-line Cursive Handwriting Word Recognition: A Survey of Methods and Performances. Journal of Institute of Mathematics and Computer Science (Computer Science Series), Kolkata, India (Accepted);

3/ Amjad Rehman, Fajri Kurniawan and Dzulkifli Mohammad (2008). Off-line Cursive Handwriting Segmentation, A Heuristic Rule-based Approach. Journal of Institute of Mathematics and Computer Science (Computer Science Series) Kolkata, India. Vol. 19 (2), pp. 135-139;

4/ Dzulkifli Mohammad, Amjad Rehman Khan and Fajri Kurniawan (2008). A New Approach for Segmenting Difficult Cursive Handwritten Words from Benchmark Database. Proceedings of 4th International Conference on Information and Communication Technology and Systems (ICTS) Vol.1, pp.17-21;

5/ Dzulkifli Mohamad, Amjad Rehman (2008). Off-line Cursive Handwritten Word Segmentation, a New Approach. Proceedings of 4th Postgraduate Annual Research Seminar (PARS' 08), UTM Skudai, Johor, Malaysia, pp.260-262.

JANUARY 2009



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2007

FELLOW

MILICA KALADJURDJEVIC

BENEFICIARY COUNTRY

SERBIA

COUNTRY OF STUDY

SWITZERLAND

PLACE OF RESEARCH

EPFL University, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland.

RESEARCH UNDERTAKEN

From 21 September 2007 to 20 January 2008.

ABOUT FELLOW

Born on 23 August 1972 in Belgrade, Serbia.

LAST DEGREE OBTAINED

Università Commerciale Luigi Bocconi, Milano, Italy: Master of International Health Care Management, Economy and Policy (15 December 2001).

SCHOLARLY WORK
AND PUBLICATIONS

Master's dissertation: EPR (electronic patient records). Quality and policy issues (in press).



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E-Governance, E-Health

In the face of increasing globalization and the rising use of ICT, skill competencies call for the medical workforce to have the skills to use information and communication technologies to support patient care as the future basis of social infrastructure. The average person in Africa is not literate, lives in rural areas. cannot access telecommunications, fixed line, mobile connectivity or Internet networks, has a low income and high risk of morbidity from communicable disease owing to the underdeveloped sanitation and water supply infrastructure. There is an obvious need for public-private partnership (PPP) to develop the necessary infrastructure and to foster ICT infrastructure for more efficient and effective health care service delivery.

Progressively, the roles of government, the private sector and civil society organizations (CSO) have become more clearly defined and public-private partnership (PPP) schemes have become more popular. Citizens, through civil society organizations, are now present on decision-making boards and their role has become more participatory. Applications of ICTs in health (telemedicine or e-health) are evolving fast in raising awareness and basic knowledge of health and hygiene, improving preventive care and improving the efficiency of health management information systems. This is because long-distance diagnosis, investigation, online consultation and even operations over the Internet are possible today with ICT. A common platform for e-health governance has been already recognized by the European Commission, which has adopted an action plan to develop telemedicine by 2010. Global partnerships are already achieving mutually beneficial results in terms of tariff decreases and rises in ICT affordability for citizens.

2015 is expected to be the year when the world population will achieve universal access. The problems that Africa has faced for decades (such as low levels of literacy and health capital) can be addressed and resolved through ICT. This is already being proven by many ICT and e-health projects in Africa. Health is an essential source of life, and we need commitment at every level if we are to increase and protect life and meet the unmet demand for health in rural and developing countries. The research conducted supports public-private partnerships as an efficient solution to ICT implementation in Africa.

The best way to decrease the cost of health care, increase life expectancy and fight morbidity is to prevent the events that have an impact on health. This can be achieved by disseminating knowledge, increasing skills and integrating different resources for the deployment of best practices. Participation by human beings in creation is important for economic, social and technological aspects. but even more so in terms of health knowledge. Africa is suffering from governmental incapacity to achieve economic prosperity. The reason is the lack of a social structure and services for citizen empowerment. Without an education system and health care service, it is not possible to enable citizens to participate in social and economic growth. ICTs can help the knowledge and education platform in Africa to empower every child to be educated and to participate in modern African society.

22 OCTOBER 2008



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2007

FELLOW

KATARÍNA BRATKOVÁ

BENEFICIARY COUNTRY

SLOVAKIA

COUNTRY OF STUDY

SPAIN

PLACES OF RESEARCH

Complutense University, Faculty of Information Sciences, Madrid, Spain.

Field research study: Youth Council of Galicia University of Santiago de Compostela, Spain.

RESEARCH UNDERTAKEN

From 1 September 2007 to 31 May 2008.

ABOUT FELLOW

Born on 8 February 1978 in Komárno, Slovakia.

LAST DEGREE OBTAINED

Comenius University, Bratislava, Slovakia: Master of Arts in Journalism (May 2003).



kbratkova@yahoo.com

The purpose of my research was to determine



Influence of Television on Children and Youth

whether television in Spain has any influence on the behaviour of children. For this purpose. I chose three State channels that cover the entire country. The three channels - TVE 1 and 2 (public channels), Telecinco and Antena 3 (private channels) - have the highest audiences. I chose the children's schedule, namely the television time slot most viewed by children from 5 p.m. (when they come home from school) to 9 p.m. This time slot is subject to child protection, and all television companies have signed an agreement to that effect. Throughout my research I observed that, despite that agreement, the companies often do not abide by its terms. It is peak viewing time and they are competing for viewers. In defending their stance, the channels argue that they broadcast to meet the viewers' demand and that the question was merely one of supply and demand. On all the channels in that time slot news items feature prominently, with a great deal of information on violence, robberies, homicides, etc., on the one hand and, on the other, utterly scandalous news about the private lives of people in the public eye. I interviewed well-known news presenters and directors, Telecinco, TVE 1 and Antena 3. The three journalists agree that Spanish television is undergoing a transformation with the advent of private television companies. They also acknowledge that politicians still wield influence and that television companies invest very little in producing educational programmes for children and young people because it does not pay. As a result, the companies behave as all other private enterprises bent on making money do. The main purpose of my work was to ascertain the assumption of much previous research on whether violence on television directly influences children's behaviour and can

cause aggressive or even violent behaviour. My interview with a child psychologist working daily with children confirmed that human behaviour is influenced by several factors. The environment in which children grow up, that is the family environment, school, and their social environment and friends, is of the utmost importance to their development. The psychologist convinced me that television is only one, very small, factor in triggering violent behaviour by a child. In such cases, there have doubtlessly been previous problems that have gone undetected. I can thus confirm that, although television does influence children in that it sets an example to emulate (presenters, actors, cartoons, and so on), I rule out the likelihood that it can cause violent behaviour. The most important factor in a child's behaviour is the environment in which he/she lives. Television is but one more factor. This was confirmed by another two psychologists who work with aggressive children and their parents. Direct surveys of children aged 7 to 11 years, too, yield no evidence that children imitate violent behaviour seen on television. Surveys of their parents have confirmed that the latter try to control content that their children see on television.

30 JUNE 2008



INFORMATION & COMMUNICATION TECHNOLOGIES WHAT THE FELLOWS SAY



RIMA MALEK LEBANON, 2008

"Owing to the UNESCO/Keizo
Obuchi Fellowship, I have
completed my research and
finished drafting the thesis.
I have therefore been awarded
the degree of Doctor of
Education Science, with
specialization in educational
informatics, with distinction.
I am now teaching and
conducting research".



AMJAD REHMAN KHAN PAKISTAN, 2007

"After my fellowship was finished, I gained in motivation for Ph.D. research".



NICOLETA CRISTEA-BRUNEL ROMANIA, 2008

"My experience under the research fellowship has been most enriching. I have amassed genuinely useful theoretical and practical knowledge for use in my professional career.".



MILICA KALADJURDJEVIC SERBIA, 2007

"The UNESCO fellowship has supported me in my research, and my long-held wish to conduct research on e-health and e-health governance has been realized with this fellowship. The opportunity to be at EPFL University and to conduct research in a prestigious academic environment has enriched my experience with a new ne<mark>twork of the people who</mark> are dedicated to the e-governance and information society development building".



DAWIT TIBEBU TIRUNEH ETHIOPIA, 2007

"The fellowship enabled me to gain enlightening experiences through working with wellknown researchers in the area of ICTs in Education".



JOSEPH KIZITO BADA UGANDA, 2008

"The fellowship contributed to the implementation of Social Networking and Computer Games for HIV Prevention Education at St. Mary's College, Kisubi, Gayaza High School and Kyambogo College".



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2008

FELLOW

IM SOTHEARITH

BENEFICIARY COUNTRY

CAMBODIA

COUNTRY OF STUDY

UNITED STATES
OF AMERICA

PLACE OF RESEARCH

Ohio University, Scripps College of Communication, Ohio, Athens, United States of America.

RESEARCH UNDERTAKEN

From 1 September 2008 to 28 February 2009.

ABOUT FELLOW

Born on 5 June 1970 in Prey Veng province, Cambodia.

LAST DEGREE OBTAINED

Ohio University, Ohio, United States of America: Master of Public Administration (MPA) (22 November 2006).

SCHOLARLY WORK
AND PUBLICATIONS

Cambodian Public Admin Reform, paper, Khmer Study Forum at Ohio University (2009).

News articles: Natural Resource Management in Developing Countries and Cambodia.

http://www.voanews.com/

khmer-english/news/special-reports/ science-and-technology/Naturalresources-90101157.html.



imthegreat@gmail.com



A Public Service Broadcasting Model for Developing Countries: the Case of Cambodia

The study explores the potential for establishing a Public Service Broadcasting (PSB) system in Cambodia. Four main factors - political circumstances, economic conditions, civil society and potential donors, and sociocultural compatibility were examined to determine their impact on prospects for a future PSB system. Those four factors were chosen on the basis of previous studies. A second objective of the study was to develop an organizational structure for a future PSB system that would make it independent of political and corporate influences and enable it to serve the best interests of the public. A third objective was to develop a funding scheme for a future PSB system that would make it financially sustainable in the long run.

In order to achieve those three objectives, a qualitative method was used to conduct field research in Cambodia. In-depth interviews were undertaken with 68 individuals. including policy-makers, media executives, media practitioners, civil society activists and representatives of donor organizations well as with ordinary citizens from different regions. The areas sampled were Phnom Penh, the capital; Siem Riem, a provincial town in the northwest of the country; the port of Sihanoukville in the southwest; and Stung Treng, a provincial town in the northeast. Research data were also collected from primary materials, including reports, meeting minutes, newsletters, press releases and pamphlets, and from secondary materials such as books and magazines.

The study shows that politics, the economy, civil society and potential donors, and sociocultural compatibility help to determine the prerequisites for a PSB system.

The findings also indicate that these prerequisites do not exist in Cambodia at the present time. The ruling party dominates the political scene and strictly controls the existing media system, from which it derives important political benefits. Cambodia's weak economic conditions and low standard of living severely limit prospects for sustainable funding of a PSB system; civil society and donors have no interest in exerting pressure on the government to reform the existing media system and to place the establishment of a PBS system on its agenda, nor are they sufficiently strong to do so. In addition, Cambodian society lacks a participatory culture, which is one of the crucial requirements for the establishment of a PSB system as well as for democracy in general.

The study reaches two key conclusions. The first is that media dependency is created by the interactions of a dominant political party, a weak economy and civil society, and the absence of a participatory culture. The second is that an independent media system can emerge only when political life is no longer controlled by a single political party.

24 SEPTEMBER 2009



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2008

FELLOW

RIMA MALEK

BENEFICIARY COUNTRY

LEBANON

COUNTRY OF STUDY

FRANCE

PLACE OF RESEARCH

Université de Rouen, Laboratoire CIVIIC, Rouen, France.

RESEARCH UNDERTAKEN

From 1 February to 31 October 2009.

ABOUT FELLOW

Born on 25 October 1969 in Ajaltoun, Lebanon.

LAST DEGREE OBTAINED

Notre Dame University Louaize, Faculty of Natural and Applied Sciences, Lebanon: Master of Science in Computer Science (19 June 1997).

SCHOLARLY WORK AND PUBLICATIONS

Dynamique de la mise en ligne des cours académiques: le cas du Liban. Poster, the third conference on Intelligent Tutoring Systems, Lausanne, Switzerland, 27-29 June 2007.

Cours en ligne: entre production locale et importation.
Le cas du Liban. Journées scientifiques Réseau de chercheurs en technologies de l'information et de la communication pour l'enseignement (RES@TICE), Rabat, Morocco (13-14 December 2007).

http://www.resatice.org/jour2007/

L'intégration des TICE dans une université libanaise: une étude de cas. European Distance and E-learning Network (EDEN), UNESCO – Paris, France (20-22 October 2008).

Universités libanaises: virages technologiques! Virage pédagogiques? 7th symposium of the international Mediterranean association TiceMed, Baabda, Lebanon (11-12 May 2010).



rimamalek@hotmail.com



The pedagogical electronic devices conceived for the online tutoring of face-to-face academic courses: the case of Lebanon

The UNESCO/Keizo Obuchi Research Fellowship enabled me to concentrate on and defend my thesis which was under a cosupervision agreement between the Université Saint-Esprit de Kaslik (USEK) in Lebanon and the Université de Rouen in France. The first part of my research was conducted in Lebanon (Prof. N. Zakaria, Thesis Director) and the second part in France (Prof. J. Wallet, Thesis Co-Director).

Field work was carried out in Lebanon. Several interviews were conducted in addition to bibliographical research in university libraries and empirical research at USEK. The following persons, among others, were interviewed: F. Baroud: A. Balian: W. Mrad. N. Khalik, IT (NDU): N. Wakim, VR: P. Bou Zaidan, SG (USEK); M. Chamoun (USJ); UL (B. Wakim); UPA (P. Gédéon); AUB (R. Souto-Silva, A. Geara); the Ministry of Education and Higher Education (A. Jamal, N. Kamil,) etc. The aim of these interviews was to understand the dynamic of online academic tutoring in Lebanon. At the same time, academic websites were thoroughly studied throughout the research and drafting period in order to analyse any modifications.

Theoretical research was conducted in Paris and Rouen in France. In Paris, I was able to conduct interviews and carry out bibliographical research at the François Mitterrand Library (from 1 to 9 March 2009).

The following people were interviewed:
Prof. M. Miloudi, Coordinator of the Avicenna
project at UNESCO; Prof. D. Oillo, Director
of Innovation; Prof. J.P. Régnier, Deputy
Secretary-General of the French National
Commission for UNESCO; C. Souyri-Desrosier,
Communication Advisor to the French
National Commission for UNESCO.
In Rouen, I completed my outline at the CIVIIC
Laboratory of the Université de Rouen and
developed my bibliographical research at the
Université de Rouen, from 9 to 18 March 2009.

Upon returning to Lebanon, I finalized the 350 pages of the Ph.D thesis and took the viva voce examination on Saturday, 18 September 2010 at USEK, after which I obtained a Ph.D (Hons) in Education Sciences, option: educational computing.

It is the UNESCO/Keizo Obuchi Fellowship that enabled me to complete my thesis within the timeframe mentioned above.

4 FEBRUARY 2011

TRANSLATED FROM FRENCH BY UNESCO



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2008

FELLOW

NICOLETA CRISTEA-BRUNEL

BENEFICIARY COUNTRY

ROMANIA

COUNTRY OF STUDY

FRANCE

PLACE OF RESEARCH

University of Avignon, Culture and Communication Laboratory, Avignon, France.

RESEARCH UNDERTAKEN

From 30 September 2008 to 28 February 2009.

ABOUT FELLOW

Born on 12 June 1977 in Gaesti, Romania.

LAST DEGREE OBTAINED

Geneva University, European Institute: M.A. in European Studies (September 2008).

SCHOLARLY WORK AND PUBLICATIONS

The Swiss Issue: why isn't Switzerland a member of The European Union? Journal of Political Analysis and Theory EuroPolis, No. 4/2008, pp. 385-388, Cluj-Napoca, Romania (2008).

La politique de communication de la Commission européenne: entre ambitions et réalité, Master's Thesis, European Institute of the Geneva University, Geneva, Switzerland (2008).

L'influence de nouveaux médias sur la sphère politique et sur la démocratie représentative en Europe, Master of Advanced Studies Thesis, Paris X University, Department of Research and Training in Philosophy, Social and Human Sciences and Modelling, Paris, France (2004). Perspective asupra politicii guvernamentale romanesti de informare publica si de constructie a imaginii, Master's Thesis, University of Bucharest, Faculty of Journalism, Bucharest, Romania (2002).

Aspecte socio-morale in comediile lui I.L. Caragiale, B.A. Thesis, University of Bucharest, Faculty of Humanities, Bucharest, Romania (2000).



nicolecristea@yahoo.com



The Region of Provence-Alpes-Côte d'Azur: a dynamic player in the strategies and uses of information and communication technologies

The information society has now become a reality that is difficult to avoid. Romania is making efforts in this field, but there are clearly a number of problems posed by the development of new technologies. Romania has just joined the European Union and receives significant structural funds from the Community budget. How should projects be developed to access these funds and how should the opportunities offered by European funding be explored to develop Romania's policies with regard to the information society? The example given by the French Region of Provence-Alpes-Côte d'Azur (PACA) is a success story, because in 2001, it was one of the first European regions to benefit from the regional programmes of innovative measures, co-financed by the European Regional Development Fund (ERDF). The regional programmes of innovative measures were devised to enable the regions to innovate in fields such as technology, sustainable development and the information society. The innovative measures in the PACA region helped, in addition to and in association with other project initiatives ("Leader +" programmes, for example) to initiate new dynamics for ICT projects at a regional level.

Since the 2000s, the PACA region has initiated and carried out various actions to reduce "dead zones", in order to facilitate information technology access and training, accompany universities in the introduction of online services for students, facilitate research access to broadband, and help associations and businesses in the digital sector.

The Provence-Alpes-Côte d'Azur region uses information technology for its management

and the services that it provides within the territory, and acts strategically through its expertise in matters of economic development, education, training and regional planning. Recently, the PACA region drew up a strategic document on the development of the information society, focusing on the dissemination and appropriation of understanding and knowledge and the building of new cultural practices though training, sharing and exchanging information, as well as providing the necessary infrastructure. These objectives with their suitability for and adaptation to local specificities - could also be applied to Romania and its regions.

In practical terms, the aim of my research was to study the good institutional practices of the PACA region and prepare a summary paper that could be used both as a theoretical, informative resource and as a potential model in the development of Romanian governmental policies in the field of the new information and communication technologies.

29 MARCH 2009

TRANSLATED FROM FRENCH BY UNESCO



INFORMATION & COMMUNICATION TECHNOLOGIES

YEAR

2008

FELLOW

JOSEPH KIZITO BADA

BENEFICIARY COUNTRY

UGANDA

COUNTRY OF STUDY

FINLAND

PLACE OF RESEARCH

University of Eastern Finland, Joensuu Campus, The School of Computing, Department of Computer Science and Statistics, Joensuu, Finland.

RESEARCH UNDERTAKEN

from 28 July 2008 to 30 November 2009.

ABOUT FELLOW

Born on 9 October 1969 in Maracha, Uganda.

LAST DEGREE OBTAINED

Hohai University, Nanjing, People's Republic of China: Master of Science in Computer Application Technology (9 April 2002).

SCHOLARLY WORK AND PUBLICATIONS

An empirical study on education strategy to the e-learning, IEEE, ISBN 13:978-0-7695-2633-1 (2006).

Management Information System, ISBN 9970-706-047. First published in 2005 by Uganda Institute of Bankers, Uganda.

Practices of adopting e-skills for teaching and learning in Ugandan schools, ISBN 978-972-8924-58-4, IADIS, Amsterdam, The Netherlands (2008).

Towards viable technology for HIV/AIDS education: ISBN 978-1-905824-11-3, IST Africa, Kampala, Uganda (2009). A framework for designing web-based HIV/AIDS preventive education and counseling services to youth: a Ugandan perspective, ISBN 978-972-8924-83-6, Algarve, Portugal (2009).

Pedagogical and conceptual design of an e-learning environment for HIV/AIDS education, ISBN 978-9970-02-738-5, Makerere University, Kampala, Uganda (2009).

Design and development of computer games: a pedagogical perspective for HIV/AIDS prevention in schools, ISBN 1-880094-76-2, Vancouver, Canada (2009).



j_bada@yahoo.com



Design and Evaluation of Web-based HIV/AIDS Education and Counseling Support Systems in Uganda

Fellowship overview: I was awarded a lump sum of US \$10,000 by UNESCO to analyse, design and evaluate computer games and virtual classrooms for HIV/AIDS preventive education and counselling services support for teenage students in Ugandan secondary schools.

Research direction: Designing, developing and evaluating computer games for HIV/AIDS preventive intervention in schools; bringing together creative students and teachers in a virtual classroom with web 2.0 technology features for collaboration, chatting, knowledge-sharing and collective intelligence generation.

Methodology: Design online lessons and computer games; develop a digital learning environment (DLE); evaluate games and DLE using a formative evaluation approach; perform a content analysis to establish the contribution of online discussions to behavioural change.

Evaluation: Fifty per cent of students preferred games and fifty per cent preferred discussion forums for conveying HIV/AIDS preventive education. The content analysis indicated that students preferred abstinence and identified peer pressure, alcohol consumption, idleness and emotions as risk factors for HIV infection.

Achievements: Creation of a virtual classroom for HIV preventive education; development of two computer games; training teachers and students to use games and virtual classrooms for HIV education; development of GASONEL (Games, Social Networks and Lessons) pedagogy and methodology for web-based HIV educational content design, development and evaluation.

Major lessons learned: Use online lessons and computer games for HIV/AIDS preventive education; bring together students, teachers and HIV counsellors to discuss HIV prevention using web 2.0 social network tools; involve students in building educational drama games based on local cultures.

Recommendations and follow-up action: Involve teachers and HIV counsellors in contextualized game design. Transform the collective intelligence gathered online from students, teachers and HIV counsellors into books for use in schools.

4 FEBRUARY 2010

FIELD OF STUDY 2007-2008

PEACEFUL CONFLICT RESOLUTION

"Peace is more than the absence of war. It is living together with our differences - of sex, race, language, religion or culture – while furthering universal respect for justice and human rights on which such coexistence depends. The culture of peace – a concept pioneered by UNESCO – involves fostering those values essential to peace, such as non-violence, tolerance, solidarity and mutual understanding. Its tasks include conflict prevention and resolution, reconciliation, education for nonviolence and the promotion of dialogue. The culture of peace is strongly linked to the concept of a new humanism that puts human beings at the centre of all development processes. Every day brings confirmation that the road to a culture of peace will be a long one but equally compelling reasons for renewing our efforts in pursuit of this ultimate goal."

IRINA BOKOVA

DIRECTOR-GENERAL OF UNESCO

Introduction of the 185th Session of the Executive Board Thematic Debate Intercultural Dialogue in the 2010s: Revisiting policies within the context of culture of peace (UNESCO, 11 October 2010).

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VENEZUELA



2007

FELLOW

DORAH YANETH ORTIZ PARRADO

BENEFICIARY COUNTRY

COLOMBIA

COUNTRY OF STUDY

MEXICO

PLACE OF RESEARCH

Autonomous University of Yucatán (UADY), Social Sciences Unit, Yucatán, Mexico.

RESEARCH UNDERTAKEN

From 17 September 2007 to 16 June 2008.

ABOUT FELLOW

Born on 12 January 1975 in Bogotá, Colombia.

LAST DEGREE OBTAINED

National University of Colombia, Faculty of Human Sciences, School of Gender Studies: Master's degree in gender studies – women and development (14 September 2007).

SCHOLARLY WORK AND PUBLICATIONS

Studies for diploma: Gender, Women and Development Processes, Successful Women Foundation, National University, Bogotá, Colombia (January 2006).

Trabajo, Género, Identidad. Significados, prácticas y condiciones laborales en la construcción de identidades femeninas y masculinas, en dos grupos diferenciados de la ciudad de Bogotá [Work, Gender, Identity. Meanings, working practices and conditions in the construction of female and male identities, in two differentiated groups of the city of Bogotá], Eighth National Days of History of Women and Third Ibero-American Congress of Gender Studies, held in the city of Villa Giardino, Córdoba, Argentina (October 2006).

Panel: Género, trabajo, identidad y movimiento obrero. Propuesta titulada, Trabajo, género e identidad femenina para el IX Congreso Nacional de Sociología y Estudios de Género [Panel on Gender, work, identity and workers' movement. Proposal: Work, gender and female identity for the Ninth National Congress of Sociology and Gender Studies], held at the National University of Colombia, Bogotá, Colombia (November-December 2006).



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Violence against Women in Mexico

Society, which comprises individuals and structural entities, tends to generate violence through aggressive and violent acts, overtly and at times covertly. This being so, the presence of physical or psychological violence hardly needs demonstrating, but its manifestation (latent, and not intentional or deliberate) is perceived – and accepted – as a natural circumstance in all societies, since culturally speaking we are subject to codes of behaviour laid down over the generations.

Violence in the workplace is a common problem, with instances observed in the various departments, buildings and sections of the two institutions under consideration. The violence takes many forms, and these vary in accordance with the individual aspects of the workers (personality, training and seniority) and aspects relating to the working atmosphere itself (organizational strategy, human and material resources, levels of communication). In addition, there are aspects relating to the public served and the social and political mechanisms in place.

Research points to some contemporary forms of workplace violence towards the nursing staff at two hospitals run by the health secretariat of the state of Yucatán. The violence is perpetrated through two structural/institutional and symbolic/cultural channels and can be broken down into three types of violence: structural (excessive physical and mental workloads imposed on workers); direct (shown in the denial of workers' rights and an insecure working atmosphere); and symbolic (meanings constructed around working activity and social and institutional recognition of competent professional practice in specialist establishments).

Furthermore, the specific working conditions of the health sector put nursing staff in danger of violence, owing to deficient recruitment measures, physical insecurity, deterioration of facilities, care entailing close physical contact with patients, shift working and the conduct of work in hostile, tense, antagonistic and distrustful environments. These instances of violence trigger and perpetuate "small-scale violence" in the form of professional practices that produce inter alia traumas, omissions, negligence, incompetence, divided attention, withholding or provision of incomplete information, indifference to suffering and pain, low self-esteem, depressive symptoms and irreparable physical lesions. These are all practices that support and reinforce the major types of structural, symbolic and institutional violence in this work setting.

The data obtained show that, in the environment studied, the workers – women and men – have experienced and endure situations of violence daily, besides being exposed to various occupational risk factors for which many of them are not prepared. A preventive approach must therefore be adopted and various aspects dealt with from within, while also acknowledging the external and internal causes, in order to improve conditions and requirements for nursing professionals – both women and men – in each institution.

María del Carmen Farfán García. Violencia Estructural y Readaptación Social: Algunas Implicaciones [Structural violence and social readaptation: some implications] – Enrique Navarrete Sánchez. First International Congress on Peace, Democracy and Development. Panel 2. [Mexico City] 2006.

7 NOVEMBER 2008

TRANSLATED FROM SPANISH BY UNESCO



2007

FELLOW

HERNÁN ANTONIO MOREANO URIGÜEN

BENEFICIARY COUNTRY

ECUADOR

COUNTRIES OF STUDY

CHILE AND COLOMBIA

PLACES OF RESEARCH

COLOMBIA University of Rosario Faculty of Economics Bogotá.

CHILE
Latin American Faculty
of Social Sciences
FLACSO – Chile

RESEARCH UNDERTAKEN

Santiago.

From 1 November 2007 to 30 April 2008.

ABOUT FELLOW

Born on 28 March 1976 in Southampton, United Kingdom.

LAST DEGREE OBTAINED

Latin American Faculty of Social Sciences (FLACSO headquarters, Ecuador) Quito, Ecuador: Master's degree in Social Sciences with specialization in International Relations (28 August 2006).

SCHOLARLY WORK AND PUBLICATIONS

Nuevo rol de las Fuerzas Armadas en el siglo XXI [New role of the armed forces in the twenty-first century], article for the Revista del Ejército Nacional [national army review], Ecuador (February 2006).

Política Exterior del Ecuador. Primeros dos meses de Alfredo Palacio [Foreign policy of Ecuador. First two months of Alfredo Palacio], daily El Espectador (12 June 2005). Article Democracia, Seguridad y Sociedad en la region andinas" [Democracy, security and society in the Andean region]. Coordinadora Regional de Investigaciones Sociales [Regional Coordinator of Economic and Social Research]. CRIES – Venezuela. Review Pensamiento Propio No. 20 (April 2005). Hernán Moreano, Adrián Bonilla http://www.cries.org/4.2_pp.php

Congreso Nacional y Fuerzas Armadas" [National Congress and Armed Forces], virtual review En la Mira, Institute of Legal Defence and Military Reform, Lima, Peru (February 2006). http://www.defensaidl.org.pe/ boletin/2006/boletin32.pdf.



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Borders: vulnerabilities, conflicts and human security

When I was told that I had obtained the UNESCO/Keizo Obuchi fellowship, I began to inform my contacts at the Research and Monitoring Centre on Drugs and Crime (CEODD) of the University of Rosario in Bogotá and the Latin American Faculty of Social Sciences (FLACSO – Chile).

I travelled to Bogotá in November 2007 for a CEODD internship under the tutorship of Dr Francisco Thoumi, Director of the institution. With the assistance of the Centre's research staff, I planned my research activities in Putumayo Department, in order to arrange interviews with various social actors involved in the areas of drug trafficking and alternative development. At the same time, I contacted public- and private-sector decision-makers involved in the fight against drugs in Bogotá.

In Putumayo, I travelled to the border settlements to tackle the list of interviews. As a result, coca growers, peasant farmers, indigenous people, police officers, military personnel, local government authorities and members of foundations involved in local development and human rights projects gave me all kinds of information to help me to understand the effects of the anti-drug policy in Colombia's southern department. Both public- and private-sector interviewees confirmed that the Colombian State had failed in its alternative development policy because of the high profitability of illicit activities.

The Government of President Álvaro Uribe had used several repressive mechanisms to reduce the cultivation of coca leaves and, at the same time, combat the violence-generating groups who live in the area,

such as Fronts 32 and 48 of the Revolutionary Armed Forces of Colombia (FARC) and paramilitary groups known as Águilas Negras (black eagles), Rastrojos (weeds) and Organization New Generation (ONG), which are part of the drug-trafficking circuit in the area studied.

Before the end of my stay in Bogotá, I had the opportunity to give an account of my research to the Security and Defence Working Group of the Friedrich Ebert Stiftung of Colombia (FESCOL), composed of academics, diplomats and military personnel. What I set out to do was make a comparative analysis of the security agendas of the Governments of Colombia and Ecuador. Then, in March 2008, I wrote my research article at FLACSO, Chile, with the assistance of Dr Lucia Dammert, Coordinator of the Security and Citizenship Programme. In that institution, I described my research findings to the teaching staff, who showed considerable interest in learning about the drug-trafficking routes on the border between Colombia and Ecuador and, at the same time, each government's position on the Colombian armed conflict. I also had the opportunity to give an account of my study to the cabinet of advisers to the Chilean Armed Forces.

I am sure that, as a result of this experience, my final article will contribute to the formulation of public peace and development policies in the bi-national border area.

28 MAY 2008

TRANSLATED FROM SPANISH BY UNESCO

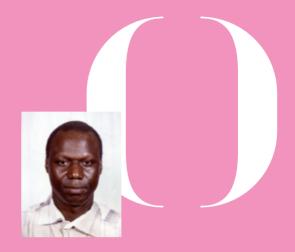


WHAT THE FELLOWS SAY



DORAH YANETH ORTIZ PARRADO COLOMBIA, 2007

"Dreams and nightmares are made of the same substance, but the only dream to which we may aspire is a nightmare – a development model based on contempt for life and the love of material things (Eduardo Galeano, 1992)".



BAKARY CAMARA MALI, 2008

"The UNESCO/Keizo Obuchi
Fellowship has enabled me
to finance a part of my
doctoral studies and has
strengthened my ability
to conduct research on local
conflicts and on conflict
management methods. Lastly,
it has boosted my career
as a research teacher and
my talents as a negotiator".



HERNÁN ANTONIO MOREANO URIGÜEN ECUADOR, 2007

"I am confident that this experience will be wholly beneficial so that my article, once completed, may contribute to the development of public policies for peace and development in the cross-border region".



RENATA MORENO QUINTEROCOLOMBIA, 2008

"The fellowship made
it possible for me to compare
and contrast the situation
in rural areas in Colombia
with those in Brazil, thus
strengthening my knowledge
of comparative research
and enabling me to identify
options for the democratic
enhancement of peasant
organizations in my country".



2008

FELLOW

MOHAMMAD TANZIMUDDIN KHAN

BENEFICIARY COUNTRY

BANGLADESH

COUNTRY OF STUDY

NEPAL

PLACE OF RESEARCH

Asian Study Center for Peace and Conflict Transformation (ASPECT), Kathmandu, Nepal.

RESEARCH UNDERTAKEN

From 14 September 2008 to 13 June 2009.

ABOUT FELLOW

Born on 15 January 1974 in Dhaka, Bangladesh.

LAST DEGREE OBTAINED

University of Warwick, United Kingdom: MA in International Political Economy (17 November 2003).

SCHOLARLY WORK AND PUBLICATIONS

The Evolving Relationship between the WTO and NGOs: An Assessment, Social Science Review, Vol. 21, N°2 (December 2004).

Politics Electoral Reforms and Governance: Bangladesh Context, in Governance and Development: regional perspectives, Department of Development Studies, University of Dhaka, Bangladesh (2006).

Combating Food Crimes: Need for Ombudsman, The Daily Star (21 December 1999).

Youth Development in Bangladesh: Relevance of ICT, The Jahangirnagar Economic Review, Vol. 14-15, N°1, June 2004 (joint publication with Baktiar Rana, Assistant Professor, Department of Business Administration, Jahangirnagar University).



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Post-Conflict Peace-Building in Nepal: the Role of Civil Society

The pro-democracy movement jointly launched by the Seven Party Alliance (SPA) and the Communist Party of Nepal (Maoist) witnessed a shift in the political landscape of Nepal, bringing an end to the decade-old Maoist insurgency as King Gaynnendra stepped down on 24 April 2006.

This transformation was accompanied by the formation of an eight-party interim government which now includes the

the formation of an eight-party interim government which now includes the Communist Party of Nepal (Maoist), and the adoption of an interim constitution to pave the way for the Constituent Assembly (CA) election scheduled to be held in November 2007. Nevertheless, this peace-building process is already showing its fragility and its potential to make Nepalese politics volatile again, which might lead to delay in holding the Constituent Assembly election and to violence.

In fact, peace-building is not an easy task when a society is marked by severe impoverishment, deep cleavages and political mistrust. Success in peace-building depends on the commitment and motivation of the parties concerned, mechanisms to resolve differences, and institutional transformation (Jeong, 2006:12). Peace-building needs to enhance public safety, promote general economic recovery and create scope for public debate (Causens, 2001). In this regard, what strategy the parties concerned will follow and which actors will be pivotal in building peace is very much context-specific and determined by the political reality of the country.

In the case of Nepal, the causes of the Maoist insurgency that began in 1996 are manifold and can be classified broadly into two categories: failure of governance and political economic perspectives. A political economic

explanation of the causes of insurgency concentrates on the class dimension of the conflict and the Spatial-Horizontal Inequality¹ in Nepal (Pahari, 2003; Morshed and Gates, 2005). The peace-building process in Nepal requires not only improvement in communal relationships but also psychological transformation to correct the damage and loss inflicted upon the victims of oppression and violence (Jeong, 2006:10). The danger remains that peace-building might become fragmented and power might again become concentrated among political parties that failed to deliver positive outcomes in the past. In this regard, civil society can fill the vacuum and play a vital role in smoothing out the process of reconstruction and reconciliation, two pillars of the peace-building approach. Since partisan politics is devoid of such capacity, it will be very difficult to give affected peoples trust and confidence in peace and progress without nurturing and ensuring the role of civil society.

Methodology

A questionnaire was used to interview officials of the NGOs concerned and victims of the Maoist insurgency and government atrocities, and to examine the role civil society organizations will play in future peacebuilding. On the basis of the interviews, relevant strategies were proposed in that regard. This research makes an original contribution to the literature on peacebuilding since not much progress has been made so far in the study of civil society's role in peace-building in Nepal.

¹ Indicator of discrimination against well-defined groups based on ethnicity or religion living in a particular region of the country.



2008

FELLOW

RENATA MORENO QUINTERO

BENEFICIARY COUNTRY

COLOMBIA

COUNTRY OF STUDY

BRAZIL

PLACE OF RESEARCH

Research and Graduate Centre on the Americas CEPPAC, Brasilia, Brazil.

RESEARCH UNDERTAKEN

From 10 September 2008 to 9 June 2009.

ABOUT FELLOW

Born on 9 April 1980 in Cali, Colombia.

LAST DEGREE OBTAINED

University of Brasilia (CEPPAC), Master in Social Sciences (December 2007).

SCHOLARLY WORK AND PUBLICATIONS

Paramilitary, drug trafficking and state behavior in Valle del Cauca, in ROMERO, Mauricio and VALENCIA, León (eds). Parapolitics: The route for paramilitary expansion and political agreements. Barney, Alvaro Guzmán, and Moreno, Renata. Corporación Nuevo Arco Iris, CEREC and ASDI. ISBN:978-958-441705-3, pp. 165-237 (2007).

Indigenous and peasant organizations address the armed conflict in northern Cauca, Moreno, Renata, in Sociedad y Economía. Revista de la Facultad de Ciencias Sociales y Económicas. Vol. 15, pp. 145-168 (December 2008)

Resisting from the speech and culture: Indians in the midst of armed conflict, another perspective on peace and war in the country, Moreno, Renata, and Ranincheski, Sonia, in Latin American Research Review, Vol. 45 # 2 (2010).



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The peasant organization in Colombia, difficulties and possibilities of democratic participation, from a comparative perspective with the MST (Movement of Landless Workers) in Brazil

During my stay in Brasilia I contacted Rita Zanotto, coordinator of the Via Campesina, who undertook the link-up with the MST secretariat in Brasília and with the MST secretariats in the places where I was going to do my field work. I was thus able to interview several national MST leaders in Brasilia and I was made welcome in the regional bodies. Then I went to Pernambuco, where I visited the MST state directorate in Caruarú, two hours from Recife. There I was able to witness the elections of mayors and town councillors of the municipality, in which the MST took an active part. I likewise attended the meeting of the state coordinating entity during the days I was there, taking the opportunity to interview guite a number of people. From Pernambuco I went to the state of Rio de Janeiro, where I also conducted interviews and visited some settlements. From there I went to the state of Paraná, where I initially met an MST adviser who provided me with very important written material on the movement and organized my visit of the state. In Curitiba I visited the MST state secretariat. where Linterviewed state leaders and obtained written material on the movement. I went to Cascavel, a region of historic importance where the movement was founded in 1985. In Cascavel I visited several settlements and encampments, including the Tierra Libre camp on land expropriated by the state from the multinational Syngenta Seeds, which in a historic dispute the MST succeeded in having expelled from the state and then established an encampment on its former grounds.

There I interviewed MST grassroots activists and leaders, attended a number of meetings in the area and accompanied the secretariat leaders during several activities. In Paraná I also visited the Copavi cooperative in the Victoria settlement, in the municipality of Paranacity and interviewed many of the cooperative workers during the days of my stay. From Paraná I went to the state of de Sao Paulo, where I lodged at the local MST training and research centre. Some training courses were under way there, which enabled me to conduct some interviews and gather MST documentation. Lalso visited the urban communes. They are located near the main towns and are made up mainly of persons from the favelas of Sao Paulo, hence of urban origin. In Colombia I interviewed national leaders of the CNA coordinated my visits to organizations in the regions. I did field work in the Catatumbo region of North-East Colombia, interviewing several of its members. I also did field work in Cauca department and paid some visits to the peasant farming zones. The experience was very valuable and full of lessons.

11 JUNE 2009

TRANSLATED FROM SPANISH BY UNESCO



2008

FELLOW

BAKARY CAMARA

BENEFICIARY COUNTRY

MALI

COUNTRY OF STUDY

SENEGAL

PLACE OF RESEARCH

Saint Louis University
UFR (training and research
unit) Legal and Political
Sciences,
Saint Louis, Senegal.

RESEARCH UNDERTAKEN

From 20 October 2008 to 19 July 2009.

ABOUT FELLOW

Born on 31 December 1968 in Komana, Mali.

LAST DEGREE OBTAINED

Gaston Berger University, Saint Louis (Senegal): Doctorate (Ph.D.) (19 December 2009).

SCHOLARLY WORK AND PUBLICATIONS

La dynamique des conflits dans deux circonscriptions administratives de Mali sud entre 2002 et 2006, in Local Experiences of Conflict Management, Special Issue, December 2008, SORONDA, Bissau: INEP; Bayreuth University, Germany (2008).

Le processus démocratique au Mali depuis 1991 – Entre fragmentation de l'espace politique et coalitions: Quels sont les impacts de la démocratisation sur la condition de vie des maliens? Published by the American Political Science Association — PSA (2008).

http://www.apsanet.org/

~africaworkshops/media/Bakary%20

Camara.pdf

Migration et tensions sociales dans le Mali sud. Published by ASC-Leiden/The Netherlands (2007).

http://www.ascleiden.nl/Pdf/

Le Président Jiang Ze Ming a atteint son objectif politique (lors de sa tournée en Afrique en 1996), Journal Asie Occidentale et Afrique (XI YA FEI), Chinese Academy of Social Sciences, Beijing, China (1996).

Naissance et évolution du nationalisme en Afrique, Journal of Shanghai Teachers University. Shanghai, pp. 49-55, ISSN 1004-8634, China (1995),

Bachelor of Law dissertation: Relations Mali-Chine – 1960-1993 (1993).



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Changes in property systems in Mali: Case of the south Mali cotton basin: Office of the Niger zone and CMDT region of Koutiala

This thesis explores changes in land-holding systems in Mali's Niger Basin. It examines the foundations of land tenure among the Malinke Bamanan and the various deep-seated cultural changes to the property systems in the region since the ninth century.

For centuries, despite the various conquests, land-holding matters had been handled by peasant farmers in accordance with their own traditions

During the French colonial period, despite attempts to change the habits of the Sudanese peasants, most of them managed to resist the cultural domination which was imposed on them or offered them. That has been perceptible in the Office of the Niger zone, where most colonial and even post-colonial agricultural policies have failed. In spite of their failures, although the effect of those policies on the behaviour of the rural populations was not perceptible at the time, their influences remain far-reaching since they have contributed to societal divisions.

After independence in 1960, the new rulers maintained long-standing policies inherited from the colonial past, but age-old peasant practices, under the weight of the development process, are still very much alive. The peasant farmers seem to withstand change and are thus instrumental in prolonging the period of transition between the traditional and the modern.

Despite the resistance of peasant logics, the process of individualizing land ownership that began in the colonial period continues and, in the past 20 years, has begun to gather speed owing to the State's new development policies. This is apparent from the growing

number and complexity of the various land-tenure stakeholders.

Furthermore, the leading families, known as Kabila (clan), are breaking up as a result of conflicts over the sharing of cash-crop earnings. Property disputes, which used to be handled through traditional arrangements, are increasingly referred to the courts, which have their limitations for their judgments cannot in most cases be applied in situ. In addition to the traditional farmers and pastoralists, the stakeholders now include national and international non-governmental organizations, associations, local authorities, and large and small private farmers.

The advent of these actors and the State's institutional reform policy, the latter amounting to little more than decentralization and to tidying up and producing legal texts, have inexorably contributed to the promotion of concerted action and to the development of democracy based on economic liberalism and individualism. This situation fosters not only the breakdown of the customary ownership system but also the partial or full recognition of some customary land-tenure rules.

The thesis thus highlights the gradual change in the status of land and in land relations in Mali in general and in the Niger Basin in particular. It is suggested that, despite these inevitable transformations, institutional reforms must be tempered. They must be conducted prudently and methodically with both patience and resolve, account being taken of certain realities in order to cushion their impact on rural populations.

29 OCTOBER 2009

TRANSLATED FROM FRENCH BY UNESCO



2008

FELLOW

MUAYAD YAHYA

BENEFICIARY COUNTRY

PALESTINIAN AUTONOMOUS TERRITORIES

COUNTRY OF STUDY

AUSTRIA

PLACE OF RESEARCH

Austrian Institute for International Affairs, Vienna, Austria.

RESEARCH UNDERTAKEN

From 1 September 2008 to 30 April 2009.

ABOUT FELLOW

Born on 27 January 1971 in Beit Rima, Palestine.

LAST DEGREE OBTAINED

Vienna and Wroclaw University, Austria and Poland, Joint Master's Degree in Global Studies (22 October 2007).

SCHOLARLY WORK AND PUBLICATIONS

Humanitarian Intervention Legality, effectiveness, neutrality, Wroclaw University (2007).

The Role of the United Nations in Peace-Making in the Middle East, Malta University (2003).

The Role of Civil Society in Palestine, Malta University (2002).



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The role of the European Union (EU) in enhancing democracy and development in Palestine since the Oslo Accords: forms, objectives, impacts

Considerable research was conducted on the EU's role in Palestine, specifically with respect to the enhancement of democracy and development and the contribution to peacemaking and peaceful coexistence. Democracy and peace are inseparable and interdependent. The research looked into the importance of the Palestinian question for the EU.

It also addressed Europe's security and instability concerns specifically in regard to the Middle East since stability is a prerequisite for development and prosperity in the region.

The project demonstrated the following:

The EU's support for democracy and development in Palestine on account of its economic interest in building a stable region allowing development of free markets, investments and trade.

The political and security concerns prompting the EU to curtail the flow of illegal immigrants aspiring to improve their living conditions and to avoid political disorder.

As to development, the EU is the biggest contributor to the Palestinian Authority and its financial assistance funds the public sector employees, the police and security forces, development projects for local authorities (municipalities and village councils), hospitals and medical equipment, etc.

The EU supports citizen participation to strengthen civil society and promote democratic norms, inter alia by providing technical assistance and support for free and independent elections, and civic awareness programmes, including those with special emphasis on women and strengthening parliamentary exchanges and independent media. As a rule, democracy, freedom, the rule of law, economic development, security and political reforms, empowerment of women, and social justice have been on the agenda of the EU's foreign policy towards Palestinians since the signing of the Oslo Accords.

It is suspected that the EU's financial support of the Palestinian Authority and in some measure Palestinian non-governmental organizations is administered corruptly, involving favouritism and a lack of transparency and accountability. This suspicion has dented the credibility of the Palestinian Authority and the NGOs concerned in the eyes of ordinary citizens. Accordingly, the impact of the EU's financial support on ordinary Palestinian people, not on the elite, in terms of any democratic transformation of society is still limited since it is not based on sound governmental and civil society institutions able to persuade ordinary citizens to accept the idea of democracy without accountability and social justice.

16 FEBRUARY 2011



2008

FELLOW

ALICIA FERLINDA NUÑEZ PAREDES

BENEFICIARY COUNTRY

VENEZUELA

COUNTRY OF STUDY

SPAIN

ABOUT FELLOW

Born on 8 June 1971 in Caracas, Venezuela.

LAST DEGREE OBTAINED

University of Alicante, Master's Degree in Children and Young People at Social Risk (19 June 2006).

PLACE OF RESEARCH

University of Alicante Department of Sociology II University Institute of Social **Development and Peace** Alicante, Valencia, Spain.

RESEARCH UNDERTAKEN

From 2 January to 1 July 2009.



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Descriptive study of how social agents perceive unaccompanied immigrant minors

The research sought to describe how social agents, such as educators, enterprise networks, volunteers and possible collaborators, perceive unaccompanied immigrant minors. The phenomenon of unaccompanied immigrant minors is increasing in Spain. Manuel Capedevilla and Ferrer (2003) affirm that, in Catalonia, they took care of 316 minors in 1997, 1,493 minors in 1998 and 2.437 minors in 1999. The authors maintain that young people go to Spain to improve their living conditions and help relatives living in their country of origin. Garatto (2001 C.P. Jiménez 2003) indicates three sets of circumstances in which these minors are brought to Spain:

- (a) Trafficking of people in situations of semi-slavery and sexual exploitation and abuse.
- **(b)** Youngsters who were street children, committing thefts and criminal acts.
- (c) Minors who are catered for in childhood protection systems allowing them to make immigration plans and to regularize their situations.

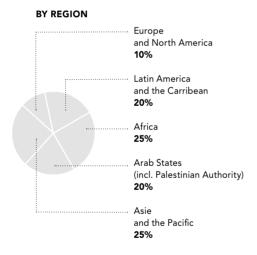
It is important to remember that integration depends not only on the unaccompanied immigrant minors but also on all members of the recipient society and the social networks used to resolve integration difficulties. However, no serious obstacles to coexistence such as racism or paternalism are found. The results match Jiménez's conclusions (2003): Minors and street children are perceived as dangerous and problematic when experienced for the first time in Europe; one may think that these children are poor and lacking in culture and that they must learn Spanish customs if they want to integrate into

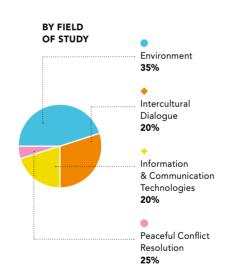
Spanish society. However, ignorance of the culture from which they came and the emphasis on acculturation rather than integration suggests that the attention of social services was focused on the sheer mass of children. This may account for institutional mistreatment. The services may suspect the children of concealing their identity but fail to realize that they are afraid of being returned to their country on such grounds as drug dealing and prostitution, while overlooking different circumstances of life.

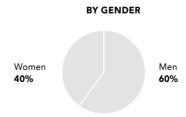
This research followed a qualitative methodology. Educators, volunteers and collaborating industrialists were interviewed, advantage being taken of the development of relationships based on confidence allowing interviewed agents freely to voice their perception of young children. This research was done in the Province of Alicante, where there are centres catering for children and accompanied immigrants, under the supervision of a senior lecturer, Daniel La Parra, from the Department of Sociology II, University of Alicante, Spain.

ANNEXESSELECTED CANDIDATES FROM 2001 TO 2008

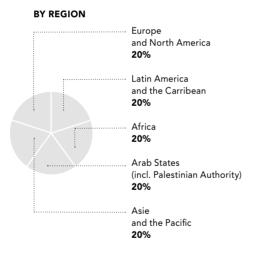
2008	•	•	+	•	Men	Women	Total	\$ Value
Africa	2	1	1	1	5	-	5	50 000
Arab States (incl. Palestinian Automous Territories)	1	1	1	1	2	2	4	40 000
Asia and Pacific	2	1	1	1	3	2	5	50 000
Europe and North America	-	1	1	-	1	1	2	20 000
Latin America and the Caribbean	2	-	-	2	1	3	4	40 000
					40			
Total	/	4	4	5	12	8	20	200 000

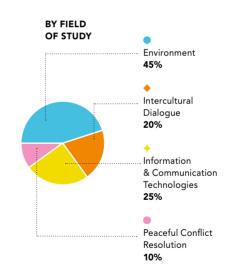






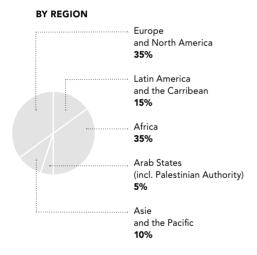
2007	•	•	+	•	Men	Women	Total	\$ Value
A6:		_	4					27.500
Africa	2	1	1	-	4	0	4	37 500
Arab States (incl. Palestinian Automous Territories)	3	1	-	-	1	3	4	40 000
Asia and Pacific	1	1	2	-	3	1	4	30 000
Europe and North America	1	1	2	-	1	3	4	39 000
Latin America and the Caribbean	2	-	-	2	1	3	4	40 000
Total	9	4	5	2	10	10	20	186 500

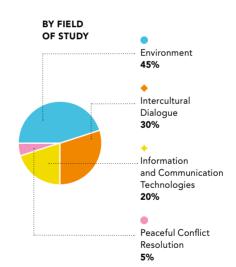






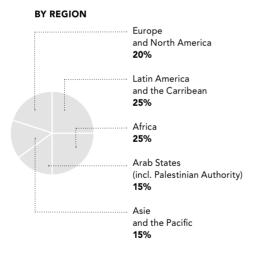
2006	•	•	+	•	Men	Women	Total	\$ Value
Africa	2	1	3	1	5	2	7	67 500
Arab States (incl. Palestinian Automous Territories)	1	-	-	-	1	-	1	10 000
Asia and Pacific	2	-	-	-	-	2	2	20 000
Europe and North America	3	3	1	-	1	6	7	70 000
Latin America and the Caribbean	1	2	-	-	3	-	3	30 000
	9	6	4	1	10	10	20	197 500

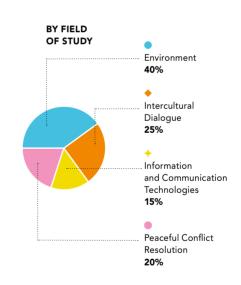


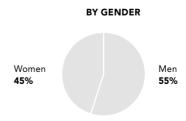




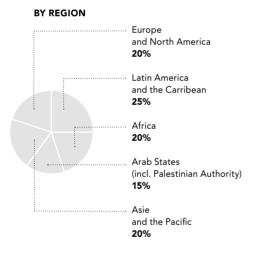
2005	•	•	+	•	Men	Women	Total	\$ Value
Africa	2	_	1	2	3	2	5	45 500
Arab States (incl. Palestinian Automous Territories)	2	-	-	1	2	1	3	28 200
Asia and Pacific	3	-	-	-	2	1	3	30 000
Europe and North America	1	1	1	1	1	3	4	38 500
Latin America and the Caribbean	-	4	1	-	3	2	5	47 000
Total	8	5	3	4	11	9	20	189 200

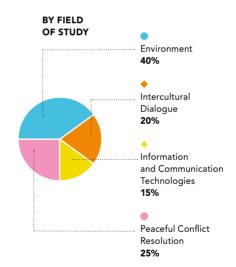






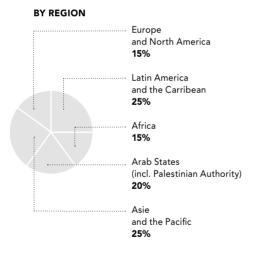
2004	•	•	+	•	Men	Women	Total	\$ Value
Africa	3	-	-	1	3	1	4	30 000
Arab States (incl. Palestinian Automous Territories)	1	1	1	-	2	1	3	22 500
Asia and Pacific	2	2	-	-	0	4	4	30 000
Europe and North America	1	-	-	3	-	4	4	30 000
Latin America and the Caribbean	1	2	2	-	2	3	5	37 500
Total	8	5	3	4	7	13	20	150 000

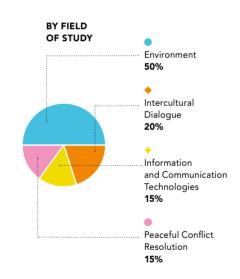






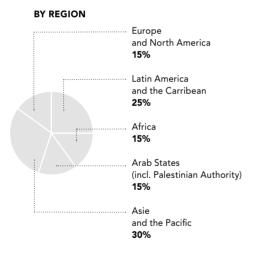
2003	•	•	+	•	Men	Women	Total	\$ Value
Africa	1	1	_	1	3	-	3	22 500
Arab States (incl. Palestinian Automous Territories)	4	-	-	-	3	1	4	30 000
Asia and Pacific	2	2	1	-	1	4	5	37 500
Europe and North America	2	-	-	1	1	2	3	22 500
Latin America and the Caribbean	1	-	2	2	-	5	5	37 500
	40				•	40	20	450,000
Total	10	3	3	4	8	12	20	150 000

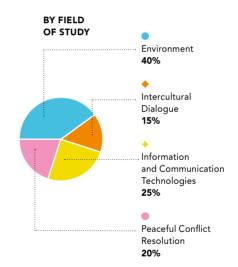






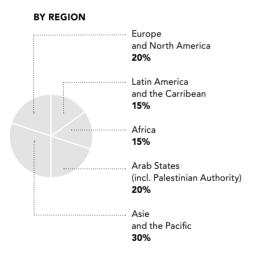
2002		•	+	•	Men	Women	Total	\$ Value
Africa	1	-	1	1	2	1	3	22 500
Arab States (incl. Palestinian Automous Territories)	3	-	-	-	2	1	3	22 500
Asia and Pacific	3	1	-	2	5	1	6	45 000
Europe and North America	1	-	2	-	3	-	3	22 500
Latin America and the Caribbean	-	2	2	1	3	2	5	37 500
Total	8	3	5	4	15	5	20	150 000

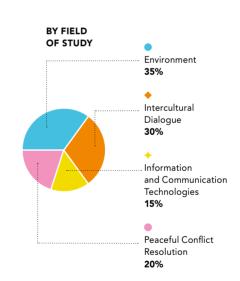


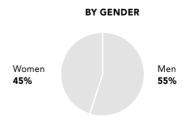




2001	•	•	+	•	Men	Women	Total	\$ Value
Africa	1	-	1	1	2	1	3	22 500
Arab States (incl. Palestinian Automous Territories)	3	-	-	-	2	1	3	22 500
Asia and Pacific	3	1	-	2	5	1	6	45 000
Europe and North America	1	-	2	-	3	-	3	22 500
Latin America and the Caribbean	-	2	2	1	3	2	5	37 500
Total	8	3	5	4	15	5	20	150 000







THE TWENTY UNESCO /KEIZO OBUCHI **RESEARCH FELLOWS**

ENVIRONMENT

2006

DILZARA NADIR AGHAYEVA

AZERBAIJAN → UNITED STATES OF AMERICA

BELA JAPOSHVILI

GEORGIA → FINLAND AND RUSSIAN FEDERATION

FLENA EVGENIEVNA TEN

KYRGYZSTAN → FRANCE

MZIME REGINA NDERELE

MAI AWI → 7IMBABWF

SII YEAN TEH

MALAYSIA → UNITED STATES OF AMERICA

VITAL TRAORÉ

MALI → RUSSIAN FEDERATION

MUNTHER FATHI MOHAMMED SALEM

PALESTINIAN AUTONOMOUS TERRITORIES → EGYPT

OANA NANMANONA FRINCU

POMANIA → ITALY

CRISANTO ANTONIO SILVA AGUILERA

VENEZUELA → MEXICO

2005

LILIT GRIGORYAN

ARMENIA → BELGIUM

BAMBANG HARIYADI

INDONESIA → UNITED STATES OF AMERICA

HAMID TAHERI SHAHRAINI

ISLAMIC REPUBLIC OF IRAN

→ GERMANY

LIZ AZZI

LEBANON → ITALY

MICHEL OMER LAIVAO

MADAGASCAR → SWITZERLAND

CHERRY AUNG

MYANMAR → INDIA

AYMAN W. DARDONA

PALESTINIAN AUTONOMOUS TERRITORIES → UNITED STATES OF AMERICA

FLIEN MANGORE

ZIMBABWE → SOUTH AFRICA

2004

CARLOS ALBERTO RUIZ GARVIA

BOLIVIA → GERMANY

CHRÉTIEN NGOUANET

CAMEROON → GABON

KOUADIO MICHEL YAO

CÔTE D'IVOIRE → ERANCE

PUTRI CHAIRANI EYANOER

INDONESIA -> THAILAND

VIRANY SENGTIANTHR

LAO PEOPLE'S DEMOCRATIC REPUBLIC → THAII AND

TAIYE REMI FASOLA

NIGERIA → INDIA

MOHAMMED IBRAHIM

PALESTINIAN AUTONOMOUS TERRITORIES → UNITED KINGDOM

AZIME TEZER KEMER

TURKEY → UNITED STATES OF AMERICA

NIKOLAY NIKOLAEV VALCHEV

BUI GARIA → PORTUGAL

MARÍA ISABEL DU MONCEAU DE BERGENDAL

CHILE → CANADA

SHALINI AKELLA

INDIA → UNITED KINGDOM

QASEM SALEH ALNEWASHI

JORDAN → SWEDEN AND GERMANY

OHN MAR OHN

MY∆NM∆R → I∆P∆N

TAYSIR SALIM ABU HUJAIR

PALESTINIAN AUTONOMOUS TFRRITORIES → FRANCE

MOHAMMED SADI EILA

PALESTINIAN AUTONOMOUS TERRITORIES → FRANCE

IGBAL SALAH MOHAMMED ALI

SUDAN → GERMANY

LALLE YENDOUKA LARE

TOGO → BURKINA FASO

HALYNA HUDZ

UKRAINF → POLAND

2002

ISMAIL MUKHTAR ZEYNALOV

AZERBALIAN → RUSSIAN FEDERATION

RI GWON CHOL AND RI HO YONG

DEMOCRATIC PEOPLE'S REPUBLIC. OF KOREA → THE PEOPLE'S REPUBLIC

AHMED MOUSTAFA MOUSSA

EGYPT → UNITED STATES OF AMERICA

HTUN KO

MYANMAR → IAPAN

TCHÉNGNON ABOTCHI TOGO → BENIN

MONA MOHAMAD HASSAN MOHSEN

PALESTINIAN AUTONOMOUS TERRITORIES → LINITED KINGDOM AND NORTHERN IRELAND AND GAZA STRIP

KHALID AHMED QAHMAN

PALESTINIAN AUTONOMOUS TERRITORIES → MOROCCO

VILMANTÈ VYSNIAUSKAITÉ LITHUANIA → SWEDEN

SIDI OULD SALEM FARIDA ZAIDA

MAURITANIA → GERMANY

MOROCCO → FRANCE

MATILDE SOMARRIBA CHANG

NICARAGUA → CHILE

AMAL HUDHUD

PALESTINIAN AUTONOMOUS TERRITORIES → TUNISIA AND UNITED KINGDOM

KHAMIS MOHAMMED EL-MAHALLAWI

PALESTINIAN AUTONOMOUS TERRITORIES → GAZA STRIP

NICK ARAHO

PAPUA NEW GUINEA → UNITED STATES OF AMERICA

INTERCULTURAL DIALOGUE

2006

OUSMANOU ADAMA

CAMEROON → THE NETHERLANDS

JAIRZINHO FRANCISCO PANQUEBA CIFLIENTES

COLOMBIA → ECUADOR

GORAN SEKULOVSKI

THE F.Y. REPUBLIC OF MACEDONIA → FRANCE

JUAN JAVIER RIVERA ANDIA

PERII → SPAIN

NICOLE DOLOWY

POLAND → GERMANY AND FRANCE

SILVIA ZÁSZLÓS

SLOVAKIA → UNITED KINGDOM

2005

FLOISA RLANCA MUSSAT

ARGENTINA → VENEZUELA AND FRANCE

MARCELO BONILLA LIRVINA

FCUADOR → SPAIN

CUTBERTO HERNANDEZ LEGORRETA

MEXICO → PORTUGAL

RAFAEL ANTONIO FLOREZ PAZ

PERU → FRANCE AND CHINA

ANA KOPRIVICA

SERBIA → CUBA

2004

ABDRAHMAN TOGOU

CHAD → NIGER

DAINORA POCIUTE ABUKEVICIENE

LITHUANIF → ITALY

MARZENA DOROTA GODZINSKA

POLAND → TURKEY

JAROSLAVA PANAKOVA- BAGDASA-

ROVA SLOVAKIA → RUSSIAN FEDERATION

2003

NOËL SANOU

BURKINA FASO → CANADA AND FRANCE

ESTONIA → UNITED STATES OF AMERICA AND UNITED KINGDOM

REYNA ELIZABETH PEÑA VELASCO

MEXICO → FRANCE AND EGYPT

LUISA MAGALY DAVALOS ROBLES

PERU → FRANCE

MANUEL ALEJANDRO BILBOA ZEPEDA

CHILE → ERANCE

CARLOS ARTURO SALAMANCA

VILLAMIZAR

COLOMBIA → FRANCE

SEONG-YONG PARK

REPUBLIC OF KOREA → AUSTRIA

JELENA DRCA

BOSNIA AND HERZEGOVINA → AUSTRIA

KURAT MOLDOBAEV

KYRGYZSTAN → RUSSIAN FEDERATION

ANDRÉS DEL CASTILLO SÁNCHEZ

MEXICO → PORTUGAL AND TIMOR - I FSTF

ELENA NEGRU

REPUBLIC OF MOLDOVA → ROMANIA

ALEXANDRU BOUREANU

ROMANIA → SWITZERI AND

FARRUH INOGAMOV

UZBEKISTAN → GERMANY AND RUSSIAN FEDERATION

INFORMATION AND COMMUNICATION **TECHNOLOGIES**

FLIGENIA PETROVA KOVATCHEVA

BUILGARIA → THE NETHERLANDS ΔΝΟ ΙΔΡΔΝ

ARMAND JOSEPH KABORE

BURKINA FASO → FRANCE

HARINAINA RAMANAMBE

RAVELOMANANTSOA MADAGASCAR → ERANCE

PETER KINTU

RWANDA → INDIA

SVELTA NIKOLOVA ROYTCHEVA

BULGARIA → GERMANY

ANIA ROSA HERNANDEZ OUINTANA

CUBA → SPAIN

EZEKIEL CHIDI ODIOGO

NIGERIA → UNITED KINGDOM

2004

JUAN DOMINGO VELÁSQUEZ SILVA

CHILE → LINITED KINGDOM

MELISSA YAMILKA PÉREZ FIGUEROA

DOMINICAN REPUBLIC → SPAIN

OLEA DRIDE

TUNISIA → FRANCE

MAYRA MARTA MENA MUGICA

CUBA → ITALY AND SPAIN

WANIGASEKERA ARACHCHIGE DONA NAYANA DARSHANI WIJAYASUNDARA

SRI LANKA → MALAYSIA

ANGELA ADRIANA VALDIVIESO LÓPEZ

VENEZUELA → CHILE

2002

JAKOV KITAROVIC

CROATIA → UNITED STATES OF AMERICA

JANIO LINCON JADÁN GUERRERO

ECUADOR → COSTA RICA

FLORENCE NZISA NZWILLI MUINDE KENYA → CANADA

ALEXEI MOROZ RUSSIAN FEDERATION →

UNITED KINGDOM

LUZ MARINA PÉREZ VENEZUELA → SPAIN

AROUNA OUEDRAOGO

BURKINA FASO → FRANCE

ANASTHASIE OBONO MBA GABON → FRANCE NYAMJAV DAVAGDORJ

MONGOLIA → THE PEOPLE'S REPUBLIC

OF CHINA

PEACEFUL CONFLICT RESOLUTION

MAMADOU SOUMARE

SENEGAL → FRANCE

CHARLES ASSAMBA ONGODO

CAMEROON → NIGER

HASSATOU BALDE

GUINEA → SENEGAL AND MALL

ISLAM VUSUEI

THE EX. REPUBLIC OF MACEDONIA → UNITED KINGDOM AND GREECE

MOHAMED MUSTAFA ARRAS

SUDAN → SWITZERLAND

IRRAHIM MASHHOLIR AL-1AZY

JORDAN → UNITED KINGDOM

AINURA AKEENEVA

KYRGYZSTAN → UNITED STATES OF AMERICA

MARÍA DEL RAYO VENTURA NAVARRETE

MEXICO → SOUTH AFRICA

ΜΔΡΙΔ ΚΙΔΝΙ

PAKISTAN → UNITED STATES OF AMERICA

ANA MAYELLA GUTIÉRREZ RODRÍGUEZ

PERU → FRANCE

SAIBOU ISSA

CAMEROON → NORWAY

MIKHAIL VLADIMIROVICH IVANOV

KYRGYZSTAN → GERMANY

SADIA NASIR BUTT

PAKISTAN → GERMANY

A.H.M. SHAMSUL MUKTADIR

BANGLADESH → PAKISTAN

MARÍACARLA ALZUGARAY RODRÍGUEZ

CUBA → CANADA

VENERA GALYAMOVA

KAZAKHSTAN → THE PEOPLE'S REPUBLIC OF CHINIA

LESUE ARTHUR WILMOT SHYLLON SIERRA LEONE → LIBERIA

2001

NARIN SOUK

CAMBODIA → AUSTRIA

FREDDY KALENGA BAFWAFWA DEMOCRATIC REPUBLIC OF THE CONGO

→ CONGO

ATZIMBA LUNA BECERRIL

MEXICO → SINIGAPORE

TIMUR DADABAEV UZBEKISTAN → IAPAN

This booklet was prepared by **Ali Zaid**, Chief, and **Leila Zas Friz**, coordinator, UNESCO Fellowships Programme.

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The Government of Japan has committed itself to cooperating with UNESCO in enhancing capacity-building of human resources in developing countries. It is in that framework, under a Funds-in-Trust Project and the UNESCO Co-Sponsored Fellowships Programme, that the Government of Japan has, since 2001, generously financed 20 research fellowships each year, in memory of the late Mr Keizo Obuchi. With a view to keeping alive and honouring the spirit of former Prime Minister Obuchi and his belief in "people building the next era", these fellowships are awarded to deserving candidates from developing countries, especially the least developed countries (LDCs).

The aim of the fellowships is to support innovative and imaginative postgraduate research in the areas of development in four areas of interest to UNESCO: Environment / Intercultural Dialogue / Information and Communication Technologies / Peaceful Conflict Resolution.

UNESCO

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