



ICVolunteers

Involve. Develop. *Volunteer.*

ICTs for Africa: Education, Research, Volunteerism applied to Agriculture and Health

Programme



**International Conference Centre of Geneva
Room: CCV, room C, 9-11 rue Varembe, Geneva
Date: 21st September 2007
Time: plenary 9:30-13:00, breakout session 15:00-18:00**

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The network of ICVolunteers:
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PROGRAMME

Aim of the roundtable:

The aim of the workshop is to facilitate exchange around concrete ICT initiatives related to Africa. The first part of the debate will present best practices. We will then focus on projects underway and look at the ingredients needed for them to be successful in order to obtain concrete and tangible results.

Expected outcomes & achievements:

Creation of win-win partnerships and solutions involving educational and academic institutions, governments, non-governmental, international organizations, volunteers, as well as other partners such as the private sector.

9:30-13:00: Roundtable contributions

9:30-10:00: Best practices and successful projects: Africa@home

Speakers: *University of Geneva (Prof. Christian Pellegrini, Head of the Computer Science Department); ICVolunteers, CyberVolunteers Program (Viola Krebs, Executive Director); UNOSAT (Alain Retiere, Director); Kwame Nkrumah University of Science and Technology, Ghana (Peter Amoako-Yirenkyi); University of Bangui, Central African Republic (Eloi Appora-Gnekindy); Mentouri University, Algeria (Sihem Kalli)*

Moderator: *François Grey, Head of IT Communications, CERN*

The Africa@home project started in 2005. It was made possible thanks to cooperation and collaboration between CERN (European Organization for Nuclear Research), the University of Geneva, ICVolunteers, STI (Swiss Tropical Institute), GIAN (Geneva International Academic Network), WHO (World Health Organization) and ISF (Informaticiens sans frontières). This technology-driven project has enabled STI to implement Malariacontrol.net to develop a malaria model through volunteer computing. Volunteer computing is a technology that allows science projects to use idle computing cycles from millions of home computers around the world, offered by volunteers. The aim of the second phase of Africa@home is to initiate other volunteer computing projects in Africa, developed by Africans. It is in this context that participants from 18 African countries took part in a workshop on volunteer computing in Muizenberg, South Africa. During this session, some of the project partners will share what has made this project successful and what the imagined continuation if it will be (More: <http://www.icvolunteers.org/index.php?what=news&id=222>).

10:00-10:30: New partnerships

Signature of partnership agreements: *Service Civique National du Sénégal* and ICVolunteers; UNISWA Foundation and Swiss Consortium

-- Coffee Break --

11:00-11:45: Initiatives underway: Self-sustainability, agriculture and ICTs

Speakers: *University of Swaziland – UNISWA (Prof. Cisco M. Magagula, Vice Chancellor); Service Civique National du Sénégal, volontaires de l'agriculture (Souleymane Ndiame Guéye, Program Administrator); CRESP – Eco-Villages, ICV-Desk (Mamadou Ndoeye), Senegal*

Moderator: *Djibril Fall, Graduate Institute for Development Studies / Université Gaston Berger, Saint Louis, Senegal*

This session will focus on research and hands-on field projects related to agriculture, research and ICTs in Africa. The University of Swaziland is currently playing a vital role in education of young people in Swaziland. It is helping link agricultural traditions with opportunity creation for the generations to come. In Senegal, there is a new project underway, focusing on information systems for husbandry in the Sahel region. What is the role of volunteers in such projects? Academic institutions in Switzerland are working around the topic of agriculture and development and will provide their insight in what is needed for projects to be successful. (More: www.icvolunteers.org/index.php?what=news&id=230).

11:45-12:30: Funding mechanisms: requirements, interests and necessities

Speakers: *Swiss Agency for Development and Cooperation (Patrick Kalas, ICT for Development Division); Francophonie (Moussa Sinon, Agent de projet et Emilienne Lionelle Ngo Saminick, Responsable Régional de Projets de Coopération); Digital Solidarity Fund (DSF) (Alain Clerc, Executive Secretary); Global Alliance for ICT for Development (Mr. Sarbuland Khan, Executive Coordinator); StiftungsZentrum.ch GmbH (Linda Zurkinden-Erismann, co-founder)*

Moderator: *Nicola Furey, Vice-President of Earth Focus Foundation / Nazir Sunderji*

In order for partnership projects like Africa@home and others presented to be successful, long-standing partnerships with financial partners and funding institutions are indispensable. What are the criteria today to get such funding? What about the challenges and assets, how does one work with the private sector and foundations?

12:30-13:00: Discussion and Questions and Answers

-- Lunch --

15:00-18:00: Ways forward

A working group will continue exchange in the afternoon to plan ways forward for the projects underway.

Support:

This roundtable is possible thanks to the support of the Swiss Agency for Development and Cooperation (SDC), *Organisation Internationale de la Francophonie* (OIF), Geneva International Academic Network (GIAN), UNISWA Foundation, SPIDER —The Swedish Program for ICT in Developing Regions.

Organizer:

ICVolunteers (www.icvolunteers.org,) is an international non-profit organization specialized in the field of communications, in particular languages, conference support and cybervolunteerism (www.cybervolunteers.info). Development, exchange of information and service to the society are the key elements shared by the communities or organizations involved and by the individuals volunteering through the ICV Network.

PRESENTATION OF INSTITUTIONS

CERN

www.cern.ch

The European Organization for Nuclear Research (CERN) is the world's largest particle physics laboratory, situated just northwest of Geneva on the border between France and Switzerland. The convention establishing CERN was signed on 29 September 1954. From the original 12 signatories of the CERN convention, membership has grown to the current 20 member states. Its main function is to provide the particle accelerators and other infrastructure needed for high-energy physics research. Numerous experiments have been constructed at CERN by international collaborations to make use of accelerators. The main site at Meyrin also has a large computer centre containing very powerful data processing facilities primarily for experimental data analysis. Because of the need to make them available to researchers elsewhere, it has historically been (and continues to be) a major wide area networking hub. The World Wide Web was invented at CERN by Tim Berners-Lee and colleagues in the early 90s, and today CERN is at the forefront of developing and exploiting Grid technology, for sharing processing and storage capacity in a transparent way between major scientific data centres on a global scale.

CRESP

www.cresp.sn

CRESP Senegal is an NGO dedicated to end hunger and poverty, sustainable local development, and the preservation of the environment and of traditional wisdom in Africa. CRESP Senegal is based in the old fishing village of Yoff, a beach-front suburb of the capital city Dakar. "CRESP" is French for "Center of Resources for the Emergence of Social Participation." Accordingly, CRESP serves as a resource center for creating, empowering and expanding the activities of two networks, one of 33 eco-villages and the other of 26 local government information systems running two education and training centers, one for each network. The EcoYoff Living & Learning Center focuses on the Senegal Eco-village Network (GENSEN) and provides formal and non-formal education and training in literacy, five dimensions of ecological and community technologies, preschool health, nutrition and early childhood education, international and local university sustainability studies, internships and volunteer opportunities in service learning, participatory action research and design of development programs. The CRESP ICT Training Center provides training in the participatory creation of databases and websites for local government belonging to the *Système d'Information Populaire* (SIP) network and running community computer literacy courses and a cybercenter. CRESP Senegal is an associate member of the ICVolunteers Federation.

DSF – Digital Solidarity Fund

www.dsf-fsn.org

The mission of the global Digital Solidarity Fund (DSF) is to reduce the digital divide and contribute to the creation of a fair, all-inclusive information society by:

- Putting information and communication technologies at the service of human development
- Facilitating access to the society of knowledge for everybody
- Contributing to the Millennium Goals

The objectives of the fund are to:

- Ensure affordable and fair access to the information technologies and their contents for everybody, especially marginalized groups.
- Promote such access as a basic right in both the public and private domains, irrespective of market fluctuations, growth and profitability, with respect for an information society that is socially, culturally, economically, financially and ecologically sustainable;
- Guarantee access to information and knowledge to everybody, contribute to the autonomy and healthy development of each individual and strengthen the commitment of local collectivities at the social, political, economic and cultural levels.
- Reduce economic, social and cultural disparities by the mobilization of fresh resources generated by innovative financial mechanisms for development, in particular the "one percent for digital solidarity" principle, a financing tool specifically devoted to the fight against the digital divide.

University of Mentouri Constantine

www.umc.edu.dz

The *Université Mentouri Constantine* is comprised of 9 faculties, the “*Institut des Nutrition et de Technologie Agro-Alimentaires*”, one institute as well as the department of “*Sciences Exactes Technologie et Informatique*”. The faculties are:

- Faculty of Medicine
- Faculty of Human and Social Sciences
- Faculty of Economic and Management Science
- Faculty of Nature and Life
- Faculty of Exact Sciences
- Faculty of Engineering
- Faculty of Earth sciences, Geography and Land Use Planning
- Faculty of Law
- Faculty of Humanities

Earth Focus Foundation

www.earthfocus.org

Earth Focus was started in the International School of Geneva in 1992 following a debate at its Pregny Campus of the International School of Geneva in which students aged eleven and twelve simulated the Rio Conference on the Environment. A newspaper, to share these experiences and concerns with others, was launched. The Bellerive Foundation, founded in 1977 by the late Prince Sadruddin Aga Khan, who firmly believed in giving a platform and voice to young people, agreed to fund the publishing of a newspaper. After the death of Prince Sadruddin Aga Khan in 2003, his widow Princess Catherine Aga Khan, who holds the same enthusiasm for encouraging young people, founded The Earth Focus Foundation with the objective of supporting the ongoing publication of the Earth Focus magazine and the extension of its debates, roundtables and visit programs. With the publication, debates, visits and voluntary activities focused on the environment and sustainability, such as Green Map, the Foundation involves young people from Geneva and around the world with each other.

EIL – Ecole d’ingénieurs de Lullier

www.geneve.ch/epl/ and www.hesge.ch/eil

Real university of applied sciences, strongly anchored in practical application, the *Haute Ecole Spécialisée de Suisse Occidentale* (HES-SO) welcomes 12,000 students from seven Swiss cantons (states). The *Centre d’enseignement professionnel de Lullier* (CEPL) is home of three professional schools: the School of Engineering which groups the knowledge around competences around jobs of the ground, nature and landscaping. It offers three kinds of training for young people after obligatory school: (1) Agronomy – special and horticulture productions; (2) Landscaping; (3) Nature management. Three kinds of diplomas can be obtained from the Centre:

- School of Horticulture: one title – five careers, 4 years of schooling
- School of Florists: creation of daily full time training for 4 years to obtain a CFC (*Certificate Fédéral de Capacité*)
- Altering Training: school / company for 3 years to obtain a CFC

GAID – Global Alliance for ICT for Development

www.un-gaid.org

The Global Alliance for Information and Communication Technologies and Development (GAID), an initiative approved by the United Nations Secretary-General in 2006, was launched after comprehensive worldwide consultations with governments, private sector, civil society, technical and Internet communities and academia. While the 2005 United Nations Summits emphasized the importance of ICT in achieving the internationally agreed development goals, including the Millennium Development Goals (MDGs), there was a need for a truly global forum that would comprehensively address crosscutting issues related to ICT in development. Recognizing that no single actor is capable of achieving the MDGs in isolation, the creation of an open and inclusive platform that can broaden the dialogue on innovative ways of harnessing ICT for advancing development is crucial. The Global Alliance is a direct response to this need. With its multi-stakeholder approach, the Alliance reaffirms the belief that a people-centered and knowledge-based information society is essential for achieving better life for all.

ICVolunteers

www.icvolunteers.org

ICVolunteers is a dynamic international non-governmental organization that recruits, trains and coordinates volunteers with specific skills for non-profit projects in the fields of languages, conference support and cybervolunteerism. ICVolunteers works with volunteers to implement social and educational programs in order to help populations and local communities to develop. Through volunteer effort, we cooperate with organizations in the humanitarian, social, environmental and medical fields to implement projects and conferences at local, national and international levels. In addition, ICVolunteers promotes volunteerism and its recognition, by enhancing civic commitment and involvement, and by providing leadership and links between organizations, individuals and communities. With its headquarters in Geneva (Switzerland), ICVolunteers has offices and permanent representation in a number of other countries, including France, Spain, South Africa, Mali and Spain.

IUED – Graduate Institute for Development Studies

www.iued.org

Created in 1961, under the name "Institut Africain de Genève," the Graduate Institute of Development Studies (IUED), Geneva, has the main objective of promoting, teaching and research concerning development and to encourage students from the South. Its vision is to raise questions in their totality and diversity (social, economic, environmental) and to strengthen links between theory and practice, thinking and action. IUED is an independent foundation, attached to the University of Geneva. As an interdisciplinary university institution, IUED is focused on the study of economic, ecological, social, political and cultural change affecting human societies in a context of globalization. IUED concentrates on the analysis of development phenomena around the world, paying particular attention to transformations in the countries of the South and in the changing relations between the North and South. A critical approach to today's realities is based on both theoretical research and practical experience of today's development problems. The vision of IUED is to promote sustainable human development that is equitable and respects cultural diversity. Its mission is to organize post-graduate teaching and continued education of high quality based in conceptual and applied research, to provide expertise and implement action programs, and to inform and raise public awareness on issues of development.

KNUST – Kwame Nkrumah University of Science and Technology

www.knust.edu.gh

In 1960, the Government of Ghana appointed a University Commission to advise on the future development of University Education Ghana, in connection with the proposal to transform the University College of Ghana and the Kumasi College of Technology into an independent University of Ghana. In 1961, an Act of Parliament thus transformed the Kumasi College of Technology into a full-fledged University, the Kwame Nkrumah University of Science Technology. The university name was changed to University of Science and Technology after the Revolution of 1966. The vision of KNUST is to be globally recognized as one of the premier centers of excellence in Africa for teaching Science and Technology for development; producing high caliber graduates with knowledge and expertise to support the industrial and socio-economic development of Ghana and Africa. The mission of KNUST is to provide an environment for teaching, research and entrepreneurship training in Science and Technology for development of Ghana and Africa. KNUST will also provide service to the community, be open to all the people of Ghana and positioned to attract scholars, industrialists and entrepreneurs from Africa and other international communities. KNUST Motto: "Nyansapo wo san no Badwenba," literally means "Wisdom knot is untied by the wise child." Nyansapo (Wisdom Knot) is a symbol of wisdom, ingenuity, intelligence and patience. It is a revered symbol of the Akans (a tribe in Ghana), which conveys the idea that "A wise person has the capacity to choose the best means to attain a goal." Being wise implies broad knowledge, learning and experience, and the ability to apply such faculties to practical ends. KNUST is situated on gentle knolls at the edge of Kumasi, located about 4.5 hours by road from Accra. Studies in African art and environmental and development studies are complemented by living in a cultural and commercial center surrounded by villages that practice numerous ancient crafts.

OIF – Organisation Internationale de la Francophonie

www.francophonie.org

The *Organisation internationale de la Francophonie* (OIF) has 53 member States and governments, 2 associate members and 13 observers located on the 5 continents, gathered around the sharing of one common language: French. Spoken by 200 million people around the world, French is the official language –alone or together with other languages— of 32 member States and governments of OIF. The *Organisation internationale de la Francophonie* leads political action in favor of peace, democracy and human rights and facilitates in all these fields consultation and dialogue among its members. OIF provides support as needed to member States and governments in the elaboration or consolidation of their sector-related policies. It implements activities of multilateral cooperation, according to a four year plan in agreement with the framework outlined by the *Sommet de la Francophonie*.

University of Bangui

www.univ-bangui.info

The University of Bangui is a public university located in Bangui, Central African Republic. It is currently the only university in the Central African Republic. Prior to independence in Ubangi-Shari (later to be called the Central African Republic), most students going on to higher education headed for universities in France. After independence in 1958, the Central African Republic took part in the Foundation for Higher Education in Central Africa, the French acronym of which is FESAC. The FESAC encompassed schools in several former French colonies, each with a specific focus. Within the FESAC, the Central African Republic had the Agricultural Institute. The FESAC began to come apart in the late 1960s. In 1969, government ordinance created the University of Bangui. The university expanded the focus of study on agriculture to include scientific research, law, economics, rural development and liberal arts. The University of Bangui has trained most of the public sector managers of the Central African Republic. It has roughly 6,600 students, 212 professors teaching at 12 institutes and research centers. Since February 2006, the University of Bangui has a *Campus Numérique de la Francophonie*.

UNISWA – University of Swaziland

www.uniswa.sz

UNISWA (University of Swaziland) is the only university in Swaziland. As such, it has a critical role in the education of young people in the country. Each year, it trains more than 5,000 students in agriculture, commerce, education, health sciences, humanities, science and social science. The University has 5,620 students; 2885 of whom are female and 3563 are full time. There are 301 academic and administrative staff, 97 of whom are female. 202 are Swazi citizens and the rest from different parts of the world. UNISWA's vision is to provide "Leadership through Excellence in Education." Among its goals is the dissemination of innovation with particular reference to agriculture and food security. With seven faculties in three campuses, two institutes and eight centers, the University has continued to grow and develop in accordance with its stated aims of assisting national development through human resource. The main campus, Kwaluseni Campus, houses the Faculties of Commerce, Education, Humanities, Science and Social Science. The Luyengo Campus houses the Faculty of Agriculture and the Mbabane Campus is home of the Faculty of Health Sciences. The Institute of Distance Education currently offers programs in Adult Education, Commerce humanities and law while the Institute of post-Graduate Studies is responsible for eight master's programs. UNISWA's HAMA project provides an enabling environment for carrying out scholarships, research, outreaches and in-service training. It also equips academics and researchers with the opportune skills to inform, develop and implement animal, land and water use management. This project provides the framework for an entrepreneurial incubator, a bank for knowledge exchange, the development of agri-business expertise and a centre for agricultural counseling. It acts as a catalyst for creating new revenue-generating streams for the institution and provides a bridge to community involvement and development through extension work, field training and advisory roles, in all agriculture-related disciplines.

UNISWA Foundation

www.uniswa.sz/uniswafnd

Founded in recent years, the UNISWA Foundation aims to secure resources and mobilize philanthropic partners to address the changing needs not only of the University of Swaziland, but, more importantly, the communities served by the university, with knowledge, expertise and infrastructure. The education – through teaching, research, scholarships and community partnership interventions – and the creation of opportunities for young people are indeed crucial for the future of Swaziland.

UNIGE – University of Geneva

www.unige.ch

The University of Geneva (Université de Genève) was founded by John Calvin in 1559. Initially a theological seminary, it also taught law. It remained heavily theological until the 17th century, at which point it began adding other disciplines as it became a center for enlightened scholarship. In 1873, it dropped its religious associations and acquired the secular status of university. Today, the University of Geneva is the second largest university in Switzerland and plays a leading role in many fields. Its location in Geneva makes it a prime target for diplomatic and international affairs studies. It is also considered among the top scientific research universities in Europe, making notable discoveries in planetary science and genetics, among other fields. It pursues three missions: teaching (classes are generally taught in French), research, and service to the wider community. The Computer Science Department of the University of Geneva (CUI) is a subdivision of the University of Geneva. CUI creates the favorable conditions for teaching and research in the field of information and communication technologies.

UNOSAT

www.unosat.org

UNOSAT is a United Nations program created to provide the international community and developing countries with enhanced open access 24 hours a day / 7 days a week to satellite imagery and Geographic Information System (GIS) services, to non-profit operational humanitarian organizations working throughout the crisis cycle. UNOSAT aims at widening the use of Satellite Imagery and other satellite applications by the humanitarian community and pursue the objective of building capacities in disaster-prone regions of the developing world to reduce vulnerability. The UNOSAT core team consists of UN fieldworkers as well as satellite imagery experts, geographers, database programmers and internet communication specialists. This unique combination gives the ability to understand the needs of users and to provide them with suitable, tailored solutions. Recently UNOSAT is diversifying its offer of satellite-based applications services to UN and NGOs humanitarian organizations as well as member-states national organizations, including emergency telecommunications, fleet management and global telemedicine.

SNC – Service Civique National du Sénégal

www.civisme.sn

The National Civic Service of Senegal (SNC) is a structure that depends on the Ministry of Youth of Senegal. It aims to prepare citizens to the values of the Republic, showing a high spirit of civic engagement, a sense of responsibility and commitment in the construction of the Nation. In this context, SNC promotes the values of national volunteering and commitment, in particular for young people. 300 volunteers have been trained for the support of local development in order to assist local authorities by reinforcing their technical capacity in the field of decentralization, in particular for socio-economic development. 250 support volunteers help with urban management. 215 have as a mission to assist with public hygiene and the environment, accompanying the program called "Senegal, clean cities." Likewise, through SNC, over 900 volunteers are involved in the agricultural sector. Additional volunteers have been trained and have as a mission to help the local dynamics in terms of public hygiene and environment.

SDC – Swiss Agency for Development and Cooperation

www.deza.ch

The Swiss Agency for Development and Cooperation (SDC) is Switzerland's international cooperation agency within the Federal Department of Foreign Affairs (FDFA). In operating with other federal offices concerned, SDC is responsible for the overall coordination of development activities and cooperation with Eastern Europe, as well as for humanitarian aid. SDC employs a staff of around 550 people to carry out its activities in Switzerland and abroad. The Agency undertakes direct actions, supports programmes of multilateral organizations, and helps to finance programmes run by Swiss and international aid organizations in the following areas:

- Bilateral and multilateral development cooperation
- Humanitarian aid
- Cooperation with Eastern Europe

Development Cooperation aims to alleviate poverty by helping people in partner countries help themselves. Development activities focus on promoting economic and government autonomy, improving production conditions, helping to solve environmental problems, and providing better access to education and basic health care for the most disadvantaged population groups. Bilateral development cooperation concentrates on 17 priority countries and eight special programmes in Africa, Asia and Latin America. Over the next few years, SDC will exit from Ecuador, while reducing its commitment in Bhutan and even more significantly in India. At multilateral level, SDC collaborates in particular with UN organizations, the World Bank, and the regional development banks. Humanitarian Aid aims to save lives and alleviate suffering. Direct relief is provided in the wake of aims to save lives and alleviate suffering. Direct relief is provided in the wake of natural disasters and in the context of armed conflicts, and humanitarian partner organizations receive both manpower and financial support. Humanitarian aid is made available wherever the need is greatest, with prevention, emergency aid, survival assistance, reconstruction and advocacy being the core areas of intervention. In 2006, Humanitarian Aid was active in seven regions, including posttsunami operations and deployment following the earthquake disaster in Pakistan. In the same year, 230 Swiss Humanitarian Aid Unit experts were sent on 330 missions.

StiftungsZentrum.ch GmbH

www.stiftungszentrum.ch

Stiftungs Zentrum GmbH is a private consultancy company that advises founders, foundations and companies on philanthropic and organizational issues (legal, financial, governance issues). Its Co-Founder, Linda Zurkinden-Erismann, has been Secretary General of SwissFoundations, Association of Grantmaking Foundations in Switzerland until December 2004. The Stiftungs Zentrum GmbH is a member of the Swiss Consortium working with UNISWA. It has an advisory role with the involvement of Swiss Foundations, funding structure and strategy for funding activities linked to specific initiatives. The StiftungsZentrum.ch GmbH supports Founders and Foundations by:

- Assisting with the set-up of foundations, from concept to realization;
- The management of foundations from the efficient management concept to the most favorable financial policy and the optimal investment strategy;
- The strategic communications, from corporate identity to public relations;
- Focusing exclusively on helping create greater value with an efficient strategy according to foundations objectives.

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Mr.	Alain	Retiere	Director	UNOSAT	United Nations Satallite Imagery Programme	Switzerland
Ms.	Emilienne Lionelle	Samnick	Responsable Régional de Projets de Coopération	OIF	Organisation Internationale de la Francophonie	Canada
Mr.	Cyrille	Schmid	Coordinator of CyberVolunteers Program	ICV	ICVolunteers Federation	Switzerland
Mr.	Vulindlela	Simelane	Project Manager		UNISWA Foundation	Swaziland
Mr.	Moussa	Sinon	Unité jeunesse	OIF	Organisation Internationaledela Francophonie	Canada

Title	First Name	Last Name	Position	Accronym	Organisation	Country
Mr.	Nazir	Sunderji			Earth Focus Foundation	Switzerland
Ms.	Lwiise	Swai	Project Manager	ICV	ICVolunteers Federation	Tanzania / Switzerland
Ms.	Maria	Vila	Coordinadora		ICVoluntaris-Barcelona	Spain
Ms.	Jay	Wilson	Coordinator	ICV France	ICVolontaires-France	France
Ms.	Brigitte	Witzel		ICV-France	ICVolontaires-France	Canada / France
Ms.	Linda	Zurkinden- Erismann	Co-Founder		StiftungsZentrum.ch GmbH	Switzerland

BIOS OF MAIN PARTICIPANTS

Peter Amoako-Yirenkyi, KNUST, Ghana

Peter Amoako-Yirenkyi is a research student at the Departments of Mathematics at the Kwame Nkrumah University of Science and Technology (KNUST) in Ghana, working on a PhD in Mathematics and Computer Science. His main research area involves the application of wavelets to pattern recognition of human gait. Currently, Peter is the Network & Computer Lab Administrator for his Department and the developer and administrator the e-learning web portal for the Faculty of Distance Learning in KNUST, Ghana. He also facilitates online courses to students of MSc. Industrial Mathematics and performs statistical analysis for corporate bodies and researchers. His specific areas of interests include but are not limited to video and image processing, Artificial Neural Networks, GPS, Genetic Algorithm, Fourier and Wavelets Transforms, Fuzzy Logic, Statistical Analysis and forensics. Peter is a member of the International Biometric Society and since July 2007 is a cyber-volunteer with the Africa@home project (www.africaathome.org).

Eloi Appora-Gnekindy, University of Bangui, Central African Republic

Eloi Appora-Gnekindy is a computer science student at the University of Bangui, *Institut Supérieur de Technologie*, Central African Republic. In 2005, he graduated with a degree in Mathematics and is in the process of completing his Computer Science degree. He has been actively participating in IT related activities in his home university, such as volunteering with the *Campus Numerique Francophone de Bangui* and installing a fiber optics network for the University of Bangui. Now as a cyber-volunteer with ICVolunteers, Eloi is involved in the implementation of new projects at CERN within the framework of the Africa@home project. His interests range from programming, networking and distributed systems to computational science and mathematical modeling.

Alain Clerc, Executive Secretary, Digital Solidarity Fund

Alain Clerc is currently Executive Secretary of the Global Digital Solidarity Fund (DSF). He is also the President of the "Fondation du Devenir". Advisor of the Mayor of Geneva and Former Swiss Government high official with the Federal Office for the Environment (1980-1989) and the Federal Office for Economic Affairs (1974-1980), Alain Clerc represented the Swiss Confederation at IMO, UNEP, FAO and at the International Council of Scientific Unions (ICSU) during negotiations of the final Declaration of the Second World Conference on Climate Change (1990). Previously, he was President of the Technical and Legal Committee for the negotiation of the Convention on Transboundary Movements of Dangerous Waste (Basel Convention, 1987), Vice-President of the Environment Committee of OECD (1982-1984) and Vice-President of the Committee for Chemical products of OCDE 1983-1986). Other international high-level positions include Director of the United Nations Centre for environmental emergency support (PNUE/UNCUEA); Director of the Climate Change Information Bureau (IUCC/OMM/PNUE); Senior Advisor to the Executive Director of UNEP and President of the Mt. Blanc-Léman Observatory for sustainable development. Mr. Clerc was born in Geneva in 1945; he studied law and social sciences at the University of Geneva (1966-1970), and trained as a teacher in British Columbia (Canada).

Milcho Damianov, CEO, UNISWA Foundation, Swaziland

Milcho Damianov is currently the Chief Executive Officer UNISWA Foundation. He is leading the Foundation to increase the visibility for the University of Swaziland, developing new partnerships and seeking funding for programs and activities. Before working in Swaziland, he was the Associate Director of the Natal University Development Foundation (NUDF), philanthropic arm of the University of KwaZulu-Natal. Originally from Bulgaria, Mr. Damianov has lived in Southern Africa for many years. He got training in the United States of America.

Oumar Diamouténé, Youth and ICTs / ICVolontaires-Mali

Oumar Sidi Diamouténé graduated as an Economic Analyst from University of Bamako 2006. Oumar is the focal point for the CyberVolunteers Program of ICVolontaires-Mali since 2005. He is the New Partnership for Africa's Development (NEPAD) E-Africa Commission's Youth Deputy Chairman to implement the triennial Program in the field of ICTs. He has been selected twice by the ITU for the Youth Award Fellows of Mali (May 2004 and July 2007). Oumar Diamouténé is the Co-Founder and the President of the Pan African Network Youth and ICTs in Mali since May 2004 to achieve the youth action plan from the Youth ITU Telecom Conference held in Cairo in 2004. He is involved in the volunteer area, to help his community reduce the digital divide and to enhance the ICT integration at school. Mr. Diamouténé has represented the youth of Mali at: YOUTH ITU TELECOM in CAIRO May 2004 (Egypt), YOUTH and World Summit on Information Society (WSIS), NEPAD level Johannesburg June 2005 (South Africa), WSIS Tunisia November 2005, NEPAD's E-Africa Commission Youth Triennial Program preparing process Johannesburg April 2006, NEPAD's E-Africa Commission Youth Triennial Program final document process, Johannesburg June-July 2006, African Development Forum "Leadership of Youth at XXI Century" Addis Ababa (Ethiopia) November 2006, International Youth Forum of The Suzanne Mubarak Women's Movement for the Peace's "The power of Youth for Peace" Sharm El-Sheikh (Egypt) September 2007. He is now the Senior Seller at BuroCAD (Computer Enterprise at Bamako in Mali). He is the Chairman of the Next Youth and ICTs_Mali's project to enhance the rural sector product in Mali. He hopes to make his community better by sharing knowledge and information.

Djibril Fall, Researcher, IUED

Djibril Fall, a sociologist and researcher, qualified in development studies at the Graduate Institute for Development Studies (IUED) in Geneva, has been working with ICVolunteers since 2005 in the research and project development team. He is particularly interested in issues related to young people and citizenship. He made these the subjects of his PhD. Djibril Fall is from Senegal where he graduated from the *Université Gaston Berger* in Sociology.

Nicola Furey, Vice-President, Earth Focus Foundation

Nicola Spafford Furey is the Vice-President of the Earth Focus Foundation. In the past, she worked for the Bellerive Foundation developing the magazine. After the death of Prince Sadruddin Aga Khan, she continued her work with young people, which led to the creation of the Earth Focus Foundation. Having a life-long interest and pre-occupation for our environment Ms. Furey has been involved with promoting sustainable tourism with Green Globe, has represented the country of Belize, Central America in Switzerland as Honorary Vice Consul and acted as the Secretary General of the Consular Corps of Geneva for eight years.

François Grey, Head of IT Communications, CERN

Since 2002, François Grey has been working in the IT Department at CERN, the European Organization for Nuclear Research. He manages the IT communications team responsible for the department's outreach and dissemination activities to the public, the press and industry, in particular in the area of Grid and distributed computing. In 2004, this team launched the LHC@home volunteer computing project, to stimulate public interest and involvement in CERN's flagship accelerator project, the Large Hadron Collider. Some 50,000 volunteers have contributed idle power from their home PCs to LHC@home, providing CERN's engineers with over 2000 CPU-years of computation. In 2005, as part of CERN's contribution to the World Summit on the Information Society, the team launched the Africa@home project in a partnership with the Swiss Tropical Institute, the University of Geneva and the NGOs, ICVolunteers and *Informaticiens sans Frontières*, sponsored by the Geneva International Academic Network.

Souleymane Diamé Guéye, Program Administrator, National Civic Service of Senegal

Capitaine de Frégate Souleymane Diamé Gueye is the Administrator of the National Civic Service of Senegal since August 2001. Before that he was Observer of African Union in the Democratic Republic of Congo in the framework of the agreements of Lusaka from November 99 to November 2000 and *Commandant Patrouilleur* in the Marina "Le Fouta" from 1996 to 1998. Trained in peace keeping in Ghana in 1997, and *Commandant Patrouilleur* of the Marina at "Casamance 2" from 1992 to 1994. Liaison officer in Lebanon in 1982 in the context of the Intermediary Force of the United Nations in Lebanon (FINUL). He was trained as a Marine in France and has obtained an Engineer diploma from Toulon in France, with a BAC series C (scientific) – *Diplôme universitaire d'étude* (Université Cheikh Anta Diop DAKAR).

Sihem Kalli, University of Mentouri Constantine, Algeria

Sihem Kalli is a Physics PhD student in Mentouri University in Constantine, Algeria and a lecturer at the Msila University. She obtained her Master's Degree in 2004 from Mentouri University. She then started her PhD thesis on Ultra High Energy Cosmic Rays. She attended some conferences on Cosmolgy and Asroparticle Physics and computing schools. Her first contact with volunteer computing was at the AIMS workshop on Volunteer Computing in Muizenberg, South Africa, a workshop organized by Africa@home.

Sarbuland Khan, Executive Coordinator, GAID

Mr. Sarbuland Khan is the Executive Coordinator of GAID. Mr. Khan directed the preparation of the Ministerial meeting of the ECOSOC on ICT for development and has been responsible for its follow-up and the establishment of the UN ICT Task Force (www.unicttaskforce.org). Mr. Khan has authored a number of publications and articles in economics and ICT for Development for books, journals, and magazines. The Global Alliance for Information and Communication Technologies and Development (GAID) (www.un-gaid.org) was launched by Secretary-General Kofi Annan to contribute to transforming the spirit and vision of the WSIS into action and promoting the use of ICTs for the achievement of the internationally agreed development goals, including the Millennium Development Goals (MDGs). It does so by providing an inclusive, multi-stakeholder global forum and platform for cross-sectoral policy dialogue, by enabling and catalyzing multi-stakeholder partnerships for action under the GAID umbrella, and by promoting channels for smooth communications and collaboration.

Viola Krebs, Executive Director, ICVolunteers

Viola Krebs is the Founder and Executive Director of ICVolunteers and takes care of the day-to-day management of the organization. She has experience with the conception, launch and evaluation of projects in the field of communications and media, including ones in a development context (Africa and Latin America). Viola Krebs is also the Vice-President of *Informaticiens Sans Frontières* (ISF) and was the focal point of the Civil Society Bureau "Volunteer Family" of the World Summit on the Information Society (WSIS), held in Geneva in 2003 and Tunis 2005. In this context, she chaired several international conferences and meetings, including the International Symposium on Volunteering (ISV 2001), closing event of the International Year of Volunteers (IYV 2001) that gathered representatives from 126 countries in Geneva, Switzerland. In the past, she has worked in the public and private sector, including for People Living with HIV/AIDS (PWA), the World Economic Forum and Merrill Lynch. Viola Krebs is a Swiss national and holds a Master's Degree in Communications and Media, a Bachelor's Degree in Linguistics, Spanish and English from the University of Geneva. She is now working on a PhD. focusing on the impact of the Internet on volunteers and volunteerism.

Prof. Cisco M. Magagula, Vice Chancellor, University of Swaziland

Professor Cisco M. Magagula, the Vice Chancellor of the University of Swaziland, holds the follows qualifications: ED.D. (University of Toronto), M.Ed. University of Manitoba, B.Ed. Brandon University, B.A. University of Botswana and Swaziland, and Certificate in Distance Education for Practitioners. He was appointed lecturer in 1981 and became Senior Lecturer in 1996, Associate Professor in 2000 and Full Professor in 2006. Professor Magagula has published widely in refereed reputable journals both locally and internationally. He has contributed chapters in books, presented papers at International and local, workshops, seminars and symposia.

Dr. Vincent M. Mhlanga, Chairman of the Board, UNISWA Foundation

Dr. Vincent M. Mhlanga is a qualified Chartered Accountant with extensive external and internal auditing experience with Coopers & Lybrand (now PricewaterhouseCoopers). From auditing, he became a development banker for a number of years. His main interest is microfinance. Besides his accountancy qualification, he holds an MBA and PhD in Finance.

Mamadou Ndoye, CRESP

Mamadou Ndoye, is the technical trainer of CRESP (*Centre de Ressource pour l'Emergence Sociale Participative*), a member of the Eco-Villages network of Senegal. Member of the multimedia caravan, launched by OSITIS – Word Space tour of Senegal and parts of Mauritania to raise awareness about information and communication technologies. Committed in the field of the environment of a Club Nicolas HULOT for nature and mankind.

Prof. Christian Pellegrini, Director of the Computer Science Department, University of Geneva

Prof. Christian Pellegrini is Director of the Computer Science Department of the University of Geneva. After obtaining an MSc in High-Energy Physics and a PhD in Computer Science from the University of Geneva, he worked as an IBM post-doctoral fellow at the T.J. Watson Research Center in Yorktown Heights, NY. He has taught a variety of computer science subjects such as the architecture and technology of computers, image processing, computer graphics and artificial intelligence. He has been a Full Professor at the University of Geneva since 1982. In 1988, the French CNRS (*Centre National de la Recherche Scientifique*) designated him member of the Scientific Council of CRIN (*Centre de Recherche en Informatique de Nancy*), a computer science research centre of the University of Nancy. He is currently a member of the expert committees of the Swiss National Research Foundation's National Research Programme 23 (1989-1994) and the "*Programme Prioritaire de Recherche en Informatique*" (SPP-IF) (1991-1995), sponsored by the Swiss Research Council and the Swiss National Research Foundation. He has also been a member of numerous programme committees for national and international conferences. His current research interests include image analysis, interpretation and understanding, knowledge representation, parallelism and distributed processing, simulation of human cognition and artificial neural networks.

Alain Retiere, Director, UNOSAT

Alain Retiere is the Director of the UNITAR Operational Service Programme on Satellite Applications known as UNOSAT. In December 2006, he received the UN21 Award given by the Secretary-General in recognition of his exceptional contribution toward improving efficiency in the United Nations. Mr. Retiere leads the United Nations Geographic Information Working Group Task Force on remote sensing and has been, together with the UNOOSA, an active promoter of the Charter within the international disaster management community. An agronomist and specialist in tropical ecology, he joined the United Nations in 1992 and carried out more than 90 technical missions in more than 60 different countries, including, the most prone to or recovering from, conflicts or major natural disasters in Central America, Asia and Pacific, Africa, Central Asia and the Balkans.

Nazir Sunderji, Earth Focus Foundation

Of an Indian ancestry, raised in Africa, educated in the United States and having accumulated extensive experience from a European base, Nazir Sunderji brings a unique 30-plus years international business, management, negotiating and diplomatic perspective. He taught Mathematics at a Community College in Pennsylvania, before moving into the private sector. For 10 years he served in several significant management and accounting positions at the United States Steel Corporation. In 1984 he moved to Switzerland, assuming the responsibility of Executive Advisor to H.H. the Late Prince Sadruddin Aga Khan, former High Commissioner for Refugees and Special Representative of the Secretary-General of the United Nations. He managed a part of His Highness' financial portfolio, and represented the Prince's interests at senior levels of Governments, bi- and multilateral agencies, as well as other international organizations and the press. He has served on the Board of Directors of various national and international companies as well as various non-profit Organizations. Simultaneously, he was appointed Director General of the Bellerive Foundation, founded and presided by the Late Prince, adding another dimension and

complementing his interests: those of working within the context of a non-governmental organization and the attendant interaction with various entities, particularly within the context of developing and newly emerging economies. He holds an Associate of Science degree from the Community College of Allegheny County, Bachelor of Arts degree in Social Relations from Carnegie-Mellon University and a Master of Business Administration from the Baldwin Wallace College, and is proficient in English, French, Gujarati, Kutchi and Kiswahili with a working knowledge of Urdu, Hindi and some Farsi.

Vulindlela Simelane, Project Manager, UNISWA Foundation

Vulindlela Simelane hails from Swaziland, where he works for the University of Swaziland Foundation as Manager of Projects and Alumni Affairs. A development professional by training, he assists in the institutional advancement efforts of the university. He was previously employed by the United States Embassy in Swaziland as HIV/AIDS Assistant and later as Cultural Affairs Assistant. He holds a Bachelor of Arts Degree in Social Science from the University of Swaziland.

Linda Zurkinden–Erismann, Co-Founder & Partner, StiftungsZentrum.ch

Linda Zurkinden-Erismann is a lawyer with extensive experience in foundation laws and management. She was General Manager of SwissFoundations (www.swissfoundations.ch) from 2001 to 2004. Her background includes creating new foundations, consulting for existing foundations, founders and companies. Ms. Zurkinden also has sound experience and strengths in secure financial planning, investment and financial strategy.

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GLOSSARY

A-B

- **Africa@home**: Africa@home is an interdisciplinary project the first phase of which allowed the Swiss Tropical Institute to run a malaria modelling project thanks to the BOINC technology. This was made possible through the multi-stakeholder partnership called Africa@home, which involves [CERN](#), the [University of Geneva](#), [ICVolunteers](#), the [World Health Organization](#), [AIMS](#), several other African academic institutions, the [Swiss Tropical Institute](#), and [Informaticiens sans frontières](#) (ISF), with the support of the [Geneva International Academic Network](#).
- **AIMS - African Institute for Mathematical Sciences**: www.aims.ac.za
- **AUF** - Agence Universitaire de la Francophonie: www.auf.org
- **BOINC** - Berkeley Open Infrastructure for Network Computing is a software package which allows mobilizing computing and storage resources through the Internet. BOINC is client-server based. It facilitates complex scientific computing through distributed public computing resources. In that sense, it is a form of digital solidarity. BOINC is freely available and enables a range of different applications in an easy and fast fashion (Windows, Linux, Mac-OS and other operating systems compatible). The program functions like a traditional screen-saver. However, in addition to showing images, it also carries out useful computation in the background. Infrastructure.

C-D

- **CERN** - European Organization for Nuclear Research: www.cern.ch
- **CIVICUS** - World Alliance for Citizen Participation: www.civicus.org
- **Cyber-volunteering** - Volunteers get involved in local, regional and international projects for a period of several weeks or months, offering their skills in areas such as web or software development, system administration and content generation.
- **CyberVolunteers Program** - The Program run by ICVolunteers which recruits, trains and coordinates volunteers with skills in information and communication technology (ICT) for development. Volunteers participate in local, regional and international projects for a period of several weeks or months, offering their skills in areas such as web or software development, system administration and content generation. The Program values in particular South-South exchanges, but also includes South-North and North-South cooperation. By doing so, it aims to help create a global information and shared knowledge society accessible to many. The CyberVolunteers Program benefits from the patronage of UNESCO-Switzerland.

E-J

- **EPFL** - Ecole Polytechnique Fédérale de Lausanne: www.epfl.ch
- **GCAP** - Appel pour l'Action Contre la Pauvreté
- **GIAN** - Geneva International Academic Network: www.ruig-gian.org
- **GKP** - Global Knowledge Partnership: www.globalknowledge.org

I-Q

- **ICTs** - Information and Communication Technologies, term that designates technologies related to the Internet and multimedia. The term also covers the notion of increased interactivity of these products and services targeting a non-specialized public. Through IT, telecommunications networks and audiovisuals, ICTs target the largest number.
- **ICTP** - Centre International de Physique Théorique: www.ictp.it
- **ISF** - Informaticiens sans frontières: <http://isf.cern.ch>
- **ISTM** - Institut Supérieur Technologique de Montplaisir: www.lycee-montplaisir.org
- **ITU** - International Telecommunications Union: www.itu.int
- **IUED** - Graduate Institute for Development Studies: www.iued.org
- **MDG** - Millennium Development Goals: www.un.org/millenniumgoals

R-Z

- **STI** - Swiss Tropical Institute: www.sti.ch
- **Volunteer Computing** --also called peer-to-peer computing, global computing or community computing-- uses computers offered on a volunteer basis by the general public to do complex scientific computing. It is currently being used in particular in molecular biology, medicine, climate studies, high energy physics and environmental sciences.
- **UNISWA** - University of Swaziland: www.uniswa.sz
- **WHO** - World Health Organization: www.who.int
- **WSIS** - World Summit on the Information Society: www.wsis.org