



# Technology for Innovation and Education in Developing Countries

***Welcome to Kampala, Uganda!***

The goal of this fifth international workshop is to bring together researchers, businesses, educators, governmental and non-governmental organizations (NGOs) to discuss various issues involved in developing new techniques and on novel uses of technology for innovation and education in developing countries. A 2007 World Bank Report titled [Building Knowledge Economies: Advanced Strategies for Development](#), states that the four key drivers for successful knowledge economies in the 21st Century are **education, information technology infrastructure, research and development focused on innovation**, and a **free market based economy**.

This conference has a **unique** combination of academics, community outreach, and connection with nature. There is one main conference day, followed by an outreach/application day and a nature day. In addition, [Appfrica](#) is starting off as a panel at the TEDC 2008. Ultimately you will get out of this conference what you make of it, so please be ready to participate and enjoy!



The conference venue, beautiful Makerere University, offers an ideal place to discuss the role of technology for innovation and education in developing countries. We give special thanks to Alexis Tugume and Bada Joseph Kizito for help in providing local coordination for this conference!

## **Conference Schedule**

<b>Thursday, July 31</b>	
8:00 - 8:45 am	Registration
9:00 - 9:40 am	Introductions and Welcome to TEDC (by conference chairs and Prof. Mugambi)
9:40 - 10:40 am	Keynote Address: Challenges and Opportunities in the use of ICTs for education in developing countries Tim Unwin UNESCO Chair in ICT4D
10:40 - 11:00 am	Break
Session 1: Chaired by Bada Joseph Kizito	
11:00 - 11:20 am	Taking e-Learning Across the Divide Chris Allen, Russell Johnson New Zealand
11:20 - 11:40 am	First things first: Finding appropriate roles for technology in constructing knowledge economies Thomas Lechner USA
11:40 - 12:00 pm	University Students' Attitudes Towards e-Security Issues: A Survey Study in Iringa, Tanzania Matti Tedre, Bukaza Chachage Tanzania
12:00 - 12:20 pm	Concept on Context: IS Meeting Context in Developing Countries & Standards and Contextual Sensitivity in Computer Science / Information Technology Degree Curricula: A Case of Five SSA Universities <i>presented by Erkki Sutinen</i> Finland
12:20 - 1:30 pm	Lunch
Session 2: Chaired by Henrik Lund	
1:30 - 1:50 pm	A Low-cost, Low-energy Tangible Programming System for Illiterates in Developing Regions Andrew Smith South Africa
1:50 - 2:10 pm	Technology Support for Students Beyond the Classroom Tshepo Batane Botswana

2:10 - 2:30 pm	An embedded bimodal tool to enable second language learners to practise conversation online over unreliable internet connections June Ye, Russell Johnson New Zealand
2:30 - 2:50 pm	Towards ICT-based Education and Counseling Support System for HIV/AIDS Prevention in Uganda Bada Joseph Kizito, Jarkko Suhonen Uganda, Finland
Session 3: Posters – Chaired by Erkki Sutinen	
2:50 - 3:20 pm	Introduction of Posters (5 minutes each)
	E Learning in Education Institutions: The emerging role of Open Source Software Mugarura. A. Cavin Uganda
	Technology and Innovation: Pottery production and development in Uganda Philip Kwesiga Uganda
	Integration of ICT in Education: the Plasma Mode of Education in Ethiopian High Schools Temtım Assefa Ethiopia
	Technology. Empowering Education. Camera’s Thousand School Initiative Trisha Olsson Uganda / Ireland
	ICTs for Post-Conflict Reconciliation: MOSES and the TRC of Liberia Thomas Smyth USA / Uganda
	Collected HIV/AIDS stories from Tanzanian students developed into digital learning materials Marcus Duveskog Sweden/Tanzania
3:20 - 3:50 pm	Break and Visit posters
Session 4: Appfrica Pannel – Moderator by Jon Gosier ( <a href="#">Appfrica</a> )	
4:00 – 5:00 pm	Appfrica Panel: Part 1: Why Intellectual Property is Africa's Most Untapped Resource; and Why The West is Interested in the African IT Community Keynote: Megha Agrawal ( <a href="#">Assetmap</a> )
5:00 pm	Walk to Reception (drinks) – Makerere University Guest House

<b>Friday, August 1</b>	
7:45 am	Pick-up spot #1: Bus will pick up people from Hotel Equitoria
8:00 am	Pick-up spot #2: Bus will pick up people from the Makerere University front gate (nearest the Guest House) to leave for Nabweru
8:00 - 8:30 am	On the bus ride - Introduction for the day and Announcements
8:30 - 9:00 am	Visit Nabweru Parent's Primary School <ul style="list-style-type: none"> <li>• Kids sing</li> <li>• Speech from the head teacher</li> </ul>
9:00 - 9:30 am	Visit Nabweru Hospital <ul style="list-style-type: none"> <li>• Walking tour of hospital facilities</li> <li>• Speech by head doctor</li> </ul>
9:30 - 10:00 am	Visit Nabweru Telecenter and Community Radio <ul style="list-style-type: none"> <li>• Walk through</li> <li>• Introduction by Ivan Gaayi and Peter Balapet</li> </ul>
10:00 - 10:30 am	Break: Refreshment
10:30 - 11:30 am	Keynote Address: Innovations in Development: High, Low & Appropriate Technologies Warner Woodworth Social Entrepreneur / Professor
11:45 - 12:45 pm	Lunch: Ala'Barbaque De-La Chez Johnnie Kazo
Board Bus	
12:45 - 4:30 pm	The timing of everything will change a bit due to traffic and scheduling, but here are some of the activities we are planning: <ul style="list-style-type: none"> <li>•Visit Watoto Children's Village &amp; Baby Home</li> <li>•Tour one building on Makerere University campus.</li> </ul>
5:00 - 6:30 pm	Conference Dinner: Pure African Buffet – Makerere University Guest House

<b>Saturday, August 2</b>	
7:45 am	Bus will pick up from Hotel Equitoria
8:00 am	Bus will pick up from Makerere University front gate (nearest the Guest House) Leave for <a href="#">Jinja Nile Resort</a> - next to the source of the Nile Introduction to Brainstorming Day
10:00 am	Approaches to Thinking Differently and Solving Tough Problems Clint Rogers
10:10 - 11:00 am	Brainstorming Session #1: What aid and development is helpful, and what is not helpful? Identifying key needs, and more effective solutions. Facilitator: Esther Naskikye (from <a href="#">Change Waves</a> )
11:00 - 11:30 pm	Brainstorming Session #2: What Unique Strengths Africa and Africans can Contribute to the World? Facilitator: Esther Naskikye (from <a href="#">Change Waves</a> )
11:30 – 12:30 Lunch at the Adrift Café (on the edge of the Nile)	
12:30 – 1:30 pm	Brainstorming Session #3: Topics of your choice Think-tank - brainstorming and application session: utilizing collective intelligence to solve problems identified over the conference.
Group #1: Appfrica Panel: Part 2: Hands on follow up from Day 1 panel Group #2: (Your suggestion - TBA) Group #3: (Your suggestion - TBA)	
1:30 - 2:00 pm	Conference Wrap-Up by Erkki Sutinen and Henrik Lund
2:00 - 2:30 pm	Closing Circle – What is at least one of your “take-aways” from the conference?
Free Afternoon: Visit Source of the Nile, At the Nile we will visit memorial sculpture to Gandhi (his ashes were scattered in the Nile), and take a boat ride to the island where you can see the source. Perhaps we will also visit a local refugee camp.	
About 6:00 pm	Return to Kampala

## **About Keynote Speakers:**



**Warner Woodworth** is a consultant to major corporations, governments and trade unions. The Skoll World Forum on Social Entrepreneurship at Oxford University has recently recognized Warner, a professor at the Marriott School, Brigham Young University, with an award as a leading innovator in social entrepreneurship education. He has published ten books and more than 180 articles, many on microcredit and NGOs. Over the last decade he has been a founder and/or director of 16 NGOs that in 2006 alone raised in excess of \$10 million, trained some 170,000 microentrepreneurs, and grew to a total of 1.2 million clients for empowering the poor and building self-reliance in 21 countries. He holds an M.A. and Ph.D. in organizational behavior from the University of Michigan



**Tim Unwin** is Professor of Geography and UNESCO Chair in ICT4D. He is also Director of the World Economic Forum's Partnerships for Education programme with UNESCO. From 2001-2004 he led the UK Prime Minister's Imfundo initiative based in the Department for International Development, creating partnerships to deliver ICT-based educational initiatives in Africa. Since returning to Royal Holloway, University of London, he has created an ICT4D Collective, which undertakes research, teaching and consultancy in the field of Information and Communication Technologies for Development. He is a Commonwealth Scholarships Commissioner and Academic Advisor to the Institute of Masters of Wine. His other research interests include the interface between ethics and geography, contemporary rural change in Europe, and the historical geography of viticulture and the wine trade.



**Megha Agrawal** (Keynote of Appfrica Panel) is currently a lead researcher in Uganda with Assetmap.org. As a student at Northwestern University, her academic concentrations include Learning and Organizational Change and International Studies. She has been a marketing consultant, developed a sports for social change project with the Global Youth Partnership for Africa in Namuwongo, Uganda, and was a teacher at the Breakthrough Collaborative.

Assets are the building blocks of any goal, yet currently, no tool exists to help collaborators share information about the resources they have and the resources they require. Assetmap.org is a web-based platform that helps individuals and groups with common social goals share information about their assets and needs for more effective, collaborative action. She will talk about their current undertaking of a proof-of-concept pilot in northern Uganda in collaboration with the Gulu District NGO Forum, and hope to launch an alpha version of the site in early 2009. [www.assetmap.org](http://www.assetmap.org)

## **About Special Panels:**



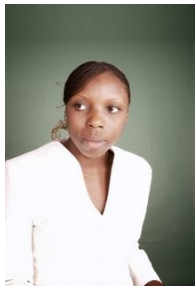
**APPFRICA (organized by Jon Gosier)** is a series of international tech conferences and think-tanks aimed at bringing together researchers, industry leaders, businesses, educators, government and non-governmental organizations for the purpose of discussing novel uses of cloud computing and internet technology for innovation and education in Africa. The goal of Appfrica is to help cultivate minds and

encourage entrepreneurship, collaboration and free-market competition within the African continent. We do this by organizing conferences, networking events, and student activities with the internet, mobile and web technology as the focus.



**Jonathan Gosier** (Founder) will be moderating the panel on Thursday and an application session on Saturday. He currently serves as the Chief Technical Officer at [Question Box](#) where he's working to develop the software platform that will allow people in developing countries without computers to get answers from operators using the internet for them via mobile phones and sms. He recently moved to Kampala, Uganda where he is working on two fronts: to encourage western businesses and investors to engage African entrepreneurs and in developing parts of Africa to encourage the adoption of computers, programming and use of the internet. Please visit the website [Appfrica.net](#) – upcoming Appfrica events in Uganda include:

- BarCamp Kampala on Aug 29, 2008
- Facebook Garage Kampala on October 18th, 2008



**ChangeWaves (facilitator Esther Nasikye)** is a Ugandan consulting group committed to increasing the social and economic impact of organisations. ChangeWaves provides and allows organizations to utilize technology for communication, facilitation, and knowledge sharing services. [www.changewaves.org](http://www.changewaves.org) ChangeWaves facilitator Esther Nasikye will guide us through a special brainstorming/application session on Saturday at the Jinja Nile Resort

## **Special thanks to our conference sponsors:**



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