

THINKING BEYOND THE OBVIOUS

Higher Education & ICT Forum

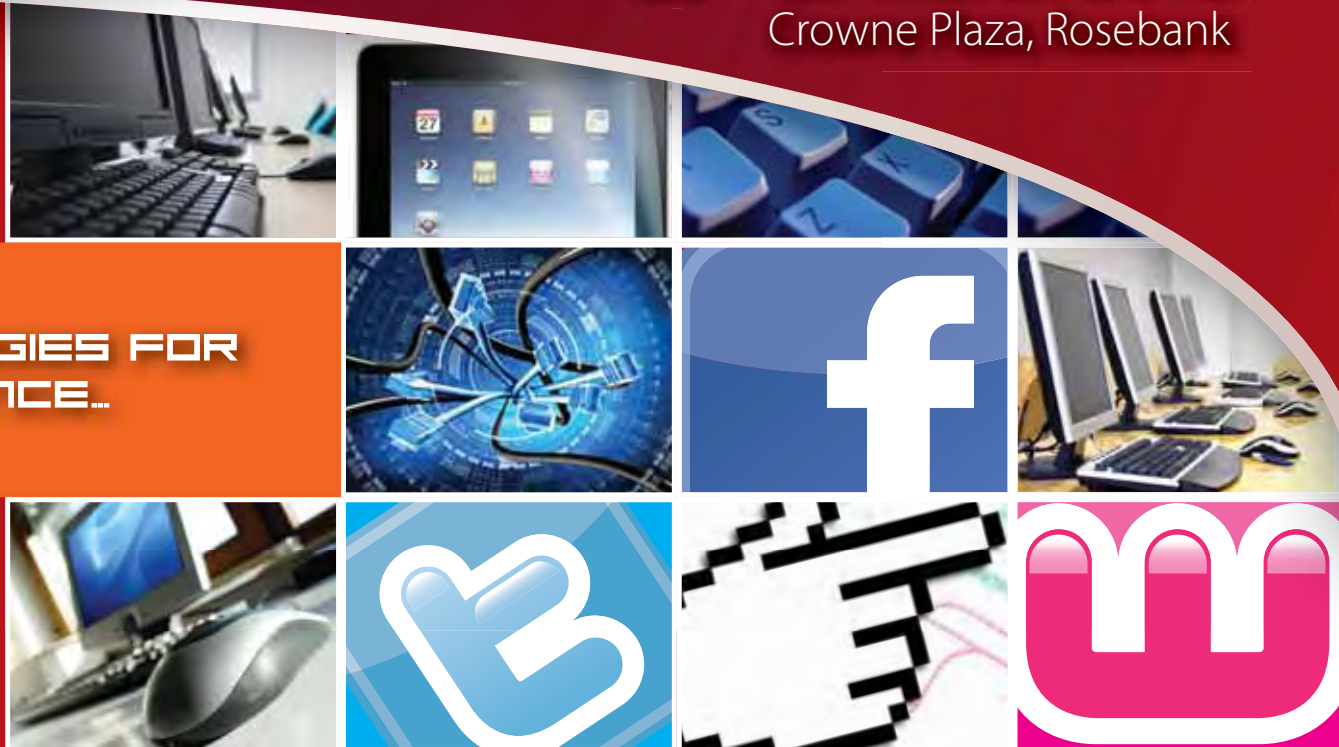
28 – 29 March 2012

Crowne Plaza, Rosebank

EMERGING DIGITAL TECHNOLOGIES FOR
HIGHER EDUCATION EXCELLENCE...

Pre-Forum Workshop:
27 March 2012

Social Media for Research,
Teaching & Learning



SETA Accreditation No. 2502

For more information, please contact Ola Odejaye on +27 72 550 0562 • ola@gptrainingsa.com • www.gptrainingsa.com


**Global
Prospectus**
THINKING BEYOND THE OBVIOUS

OVERVIEW

This Higher Ed & ICT Forum will enable a collaborative space to highlight the opportunities, challenges and limitations ICT and emerging digital technologies continues to have for higher education Africa. Expert speakers and presenters will present emerging research & case study focused, practical and solution driven, practical presentations that will revolutionise your world of research, teaching and learning. This Higher Ed & ICT Forum aims to enable an innovative avenue for showcasing how ICT and emerging digital technologies is paving the future of higher education management, teaching, learning and research.

The forum will focus on the following streams:

- Higher Education & Emerging Digital Technologies
- ICT in Research
- ICT for Teaching & Learning
- ICT for University Leadership & Administration

OBJECTIVES

This conference seeks to provide:

- *Practical update on trends in emerging digital technology for higher education excellence*
- *Unique practical insight into emerging e-learning & m-learning initiatives*
- *Insight into blended learning in higher education and patterns of pedagogical approaches*
- *Innovative approach to harnessing the benefits of emerging digital technology for higher education in Africa*
- *Understanding of the benefits and opportunities of cloud computing for higher education research, teaching & learning*
- *Effective ways to managing ICT security risks for higher education in an increasing digital age*
- *Understanding of the role of a university of technology in a knowledge society*
- *Dynamic and innovative ideas to enabling access and ways to measuring ICT integration success*
- *Insightful & practical tips that will revolutionize your teaching experience and significantly improve overall student interaction using emerging digital and social media*
- *Showcase of emerging trends, developments and various case studies in mobile learning in Africa*
- *Insight into the impacts and realities of instructional technologies*

NOT TO BE MISSED KEYNOTE ADDRESS:

**Higher Education and ICT:
Government Funding for Innovation
and Research Excellence.**

**by Honourable Professor Hlengiwe
Mkhize - MP, Deputy Minister: Higher
Education & Training - South Africa**

Forum take away for attending delegates:

**Free Blackberry Smartphone
(for forum attendees only)**

**All forum presentations on USB
Memory Pen**

**Helpful Social Media Toolkit to
improve research and student
engagement**

You don't want to miss this!

**This forum will enable a unique
networking platform to engage
peers & researchers who have and
are developing and implementing
emerging and innovative ways
of transforming teaching and
learning through ICT. Overall, our
aim is that this forum will set you
on an innovative higher education
adventure with
limitless possibilities...**

FORUM SPEAKERS

Dr. Sara Hennessy	Senior Lecturer – Teacher Development and Pedagogical Innovation Faculty of Education – University of Cambridge - UK
Dr. Allan Yuen	Associate Professor, Division of Information and Technology Studies Deputy Director, Centre for Information Technology in Education – The University of Hong Kong
Prof. Duan van der Westhuizen	Department of Science & Technology Education – University of Johannesburg
Rabelani Dagada	Director – eLearning Support and Innovation Unit – University of the Witwatersrand
Roger Brown	Learning Technologies Operations Manager – Centre for Educational Technology – University of Cape Town
Prof. Retha de la Harpe	Associate professor – IT Department – Cape Peninsula University of Technology
Dr. Aziza Ragai Ellozy	Professor of Practice & Director Centre for Learning & teaching Associate Dean for Learning Technologies – American University in Cairo, Egypt
Dr. Joseph Sevilla	Director – @iLabAfrica – Strathmore University, Kenya
Prof. Alan Amory	Educational ICT – HOD: Science & Technology Education – Faculty of Education – University of Johannesburg
Dr. Peter Tobin	Academic Director – Regenesys Business School
Mohammed Isaac Santally	Officer-in-Charge – Virtual Centre for Innovative Learning Technologies (VCILT) – University of Mauritius
Dr. Deon Van Der Merwe	Academic Head – Open Learning Group – South Africa
Maggie Verster	Educational Technologist – ICT4 Champions
Dr. Monica Kerretts-Makau	Deputy Director – @iLabAfrica – Strathmore University, Kenya
Beza Belayneh	Information Security Expert – South African Centre for Information Security
Karim Chine	Director – Cloud Era Ltd Cambridge - UK
Adrian Morris	Head E-Learning – Regenesys Business School
Dr. Osei Darkwa	President - Ghana Telecom University College – Accra Ghana

WHO WILL YOU MEET?

- University Management & Leadership
- University Professors & Lecturers
- Deans & Department Directors
- Higher Education Researchers
- University IT Directors/Managers
- Education Administrators
- Government Senior Education Personnel
- State Department of Education
- International Education Development Cooperation
- ICT Program Directors/Managers
- Educational Association's Personnel
- Education NGOs
- ICT Service Providers
- Publishers, Instruction Designers & Content Providers
- E-learning Specialist
- Multi-media & Software Developer/Specialist
- Technologist/Social Media Specialist/Consultants
- Curriculum Designers
- Education Policy Makers

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FORUM SPEAKERS AND TOPICS

KEYNOTE PRESENTATIONS

Emancipation from fundamentalist teaching: Towards innovation at higher education institutions

Prof. Duan van der Westhuizen Department of Science & Technology Education – University of Johannesburg

Blended Learning in Higher Education: Patterns of Pedagogical Approaches

This presentation will portray four patterns of pedagogical approaches of blended learning through a study of 15 cases, and depict the challenges to their implementation. These patterns are good practices with attempts to integrate content, pedagogy and technology. They provide working concepts to understand the pedagogical underpinnings of e-learning strategies in transition. They are also innovations, which have already gone beyond a simple technological adoption with sustainability. Finally, this presentation will also discuss the design and development of the next generation pedagogical innovations in blending learning and how they bring about the predicted “paradigm shift” and “innovative disruption” in higher education.

Dr. Allan Yuen

Associate Professor, Division of Information and Technology Studies
Deputy Director, Centre for Information Technology in Education – The University of Hong Kong

Can teacher education focused on interactive teaching with digital resources leverage change in African schooling?

The presentation reports on the OER4schools project which innovates by combining interactive teaching and learning, mobile forms of educational technology and open educational resources (OER) in the most optimal way to support integration of ICT use into basic schools, particularly in mathematics and science teaching. We are creating a multimedia professional development resource that could be used in pre-service or in-service teacher education; our current partners include a teacher college and the University of Zambia.

The resource supports interactive teaching and collaborative, inquiry-based learning through using ICT, OER and Open Source software – as appropriate for teachers’ own purposes and settings. It includes a range of high quality video clip exemplars filmed in the Zambian basic school classrooms where we have been conducting research and development work over the last 2 years, activities designed to develop interactive pedagogy, and a bank of open resources for teaching primary and secondary level mathematics and science. Our approach builds on an established process for teacher-led discussion, trailing new ideas, peer observation and joint reflection, all stimulated and guided by the professional development materials. The resource can be used in contexts with and without ICT availability and is being participatively developed in conjunction with local stakeholders. The aim is to work towards lasting transformation in Zambian education but with anticipated relevance to a wide range of countries in sub-Saharan Africa.

Dr. Sara Hennessy

Senior Lecturer – Teacher Development and Pedagogical Innovation
Faculty of Education – University of Cambridge - UK

SESSIONS

Educational Technology – What is happening now & where is it going?

- Evolution of online learning environments/Learning Management Systems
- Mobile computing
- Lecture recording
- Learning analytics and early warning systems
- E-portfolios
- Web 2.0 (is it finally here?)
- Online social and academic networking
- Open Educational Resources
- Improvements in local and international bandwidth

Roger Brown Learning Technologies Operations Manager – Centre for Educational Technology – *University of Cape Town*

Mobile learning in Developing Countries – Emerging trends, developments and various case studies

- Impact of mobile learning and teaching in developing countries.
- How m-learning can improve access to education while maintaining the quality of education delivered.
- Cost effectiveness of mobile learning in Africa
- Challenges of implementing mobile learning in Africa

Dr. Joseph Sevilla Director – @iLabAfrica – *Strathmore University, Kenya*

Understanding and managing ICT security risks in higher institutions in Africa

- Emerging ICT security threats to higher education institutions
- Managing security threats from using emerging technologies (Web 2.0, cloud computing, mobile computing)
- Importance of safe and secure IT infrastructure in higher education
- Understanding different nature of security requirement in higher education
- Aligning IT security with institutional needs
- How to address imbalance of technical and people aspect of security in higher education
- Higher education approach to IT security management
- Understanding and managing IT security risks in higher education
- IT security risk analysis framework for higher education
- Mapping a way forward for securing higher education institutions' information assets in Africa

Beza Belayneh Information Security Expert – *South African Centre for Information Security*

Science and education in the cloud: Towards a ubiquitous and collaborative environment for research and e-learning

Cloud computing holds the promise to trigger a radical evolution of the scientific and statistical computing tools' ecosystem. It will unquestionably have a major impact on research and education. Elastic-R is the first platform to make this potential become a reality: The on-demand, elastic and programmable infrastructure (the cloud) and the most important scientific computing software such as R, Python, Scilab, Mathematica, etc. are merged into a single ubiquitous and collaborative virtual environment. Henceforth, Researcher, Educator and Student can acquire very easily compute and storage resources and use them to work virtually with R, python, Scilab, Mathematica, etc. on their own or collaboratively without any memory, data size or data location constraints. Any device (PC, iPad, mobile phone, etc.) and any client application (web browser, Word, Excel, Local R Sessions) can be used to access the virtual remote environment. Geographically distributed collaborators can access a shared session and interact in real-time to analyse their data collaboratively, build together models, spread sheets, interactive User Interfaces and dashboards, scientific applications and workflow components, etc. Any static or dynamic/interactive artefact produced within Elastic-R can be instantly published with a simple URL. A data analysis session and all its artefacts can be checkpointed and resumed on a different machine with a different capacity. Those artefacts can be stored, shared and reused. Elastic-R makes the cloud infrastructure and its manipulation become part of the R functions and Scientist can easily, from within a local R session, run massively parallel computations on the cloud seamlessly. Karim will present on how cloud computing will have a deep impact on research and education in general and more specifically in developing countries. He is currently creating a new generation of collaborative virtual research and learning environments in the cloud.

Karim Chine Director – *Cloud Era Ltd Cambridge- UK*

STREAM 2

ICT in Research

SESSIONS

ICT impact on learning in Africa: Towards appropriate research methodologies

Prof. Duan van der Westhuizen Department of Science & Technology Education – *University of Johannesburg*

The role of a university of technology in a knowledge society

This presentation will focus on the need for Africa to educate graduates to be more innovative and how we could achieve this by incorporating ICT with a stronger design focus.

Prof. Retha de la Harpe Associate professor – IT Department – *Cape Peninsula University of Technology*

Emerging Digital Technologies: Tablets, Smartphones and the world of Research & Learning

Adrian Morris Head E-Learning - *Regenesys Business School*

STREAM 3

ICT for Teaching & Learning

SESSIONS

ICT as tools to mediate Knowledge Construction

Prof. Alan Amory Educational ICT – HOD: Science & Technology Education – Faculty of Education – *University of Johannesburg*

Learning Design and Implementation for Online Learning: A Case Study of Educational Practices, Techniques and Tool

The concept of Distance Education has greatly evolved in the digital era of 21st Century. With the widespread use and access to the Internet, exponential growth has been experienced in the field of multimedia and web technologies. These developments have greatly reduced the significance of the term 'distance' in Distance Education. Consequently with new communication and collaboration tools, and possibilities to disseminate high quality audio, video and interactive materials over the information superhighway, the educational design process of distance education materials has new perspectives to explore in order to improve and even re-engineer the overall 'distance' teaching and learning concept. This presentation will look at how the educational design process changes with technology and provides an overview of how modern tools and techniques are being used and implemented to design high quality learning environments. The presentation will cover:

- Learner-Centred Educational Design and Constructivist Learning
- Learning-Activity Modelling
- Rapid e-Learning Tools
- Integration of Rapid e-Learning Tools and Learning Management Systems using learning design standards.
- Monitoring and Evaluation of Online Learning

Mohammed Isaac Santally Officer-in-Charge – Virtual Centre for Innovative Learning Technologies (VCILT) – *University of Mauritius*

STREAM 3... ICT for Teaching & Learning

SESSIONS

Conceptualizing a virtual classroom within a blended mode of teaching and learning delivery

- Blended teaching and learning
- Principles of establishing a virtual classroom
- Utilizing Moodle as a teaching and learning platform
- Integrating Moodle and other relevant technologies, such as eVision and Smartboards
- Future talk

Dr. Deon Van Der Merwe Academic Head— *Open Learning Group – South Africa*

Rate my lecturer – You fail!

In an educational landscape where our digital native students can say and do what they like using social media tools like Facebook, twitter and “rate my teacher/lecturer”, we are at a continued technological disadvantage. How do we cope with student comments about us in open social spaces? How do we engage with students across these many platforms and should we? How do we manage our professional and personal identities in a connected world? This talk will deal with issues relating to informal and formal student engagement in this social media landscape and suggest some management techniques for professional survival.

Maggie Verster Educational Technologist – *ICT4 Champions*

E-Learning, M-Learning & Impact of Instructional Technologies

Dr. Peter Tobin Academic Director – *Regenesys Business School*

STREAM 4... ICT for University Leadership & Administration

SESSIONS

Implementing Open Source Learning Management Systems in Higher Education Institution: Issues & Challenges.

Rabelani Dagada Director – eLearning Support and Innovation Unit – *University of the Witwatersrand*

Integration of ICT in faculty professional development programs:

Addressing teaching, learning and scholarship – A Case Study of American University in Cairo

Dr. Aziza Ragai Ellozy Professor of Practice & Director Centre for Learning & teaching; Associate Dean for Learning Technologies
– *American University in Cairo, Egypt*

Higher Ed & ICT: Private Sector Partnership for Innovation and Research Excellence - Strathmore University Case Study

Dr. Monica Kerretts-Makau Deputy Director - @iLabAfrica – *Strathmore University, Kenya*

“ICT for University Leadership and Administration- A Practical Case Study.

Dr. Osei Darkwa President - *Ghana Telecom University College – Accra Ghana*

PRE-FORUM WORKSHOP – 27TH MARCH 2012

WORKSHOP OVERVIEW

Social Media for Research, Teaching & Learning

This workshop will not only explore the theory and underlying issues surrounding the use of social media, but will also equip you with a basic set of tools and skills to take home with you and use in your learning environments.

Session One

What is social media and how can we use it practically for teaching and learning?

- Measuring where we are against where we should be (Teacher 1.0 vs teacher 3.01)
- Overview of social media tools, advantages, barriers and issues
- Digital footprints (Yours, ours and theirs) and why it is critical to have one
- Creating your own Personal Learning Network (strategy and tools)
- Dealing with issues (AUP's, Firewalls, abuse, bandwidth...)

Session Two

The world is mobile- let's use our mobile devices for teaching and learning.

- Mobile Applications and tools for teaching and learning.
- QR codes: Visual information and knowledge sharing
- Creating an on-the-fly mobile learning site for your students

Session Three

There are so many new tools. How do you choose the most efficient tool for the correct learning context and outcome?

- The Basic Toolkit: (What, why, how, when)
- Micro-blogging: (Twitter) Communicate and learn. How to use microblogging tools for open and closed discussions, assessment.
- Blogging: (Wordpress, Blogger) Claiming your online presence
- Wiki's (Content management)- Working together
- Social Networks (Facebook, Ning, LinkedIn, Google+)
- Social bookmarking (Delicious and Diigo) Creating a database of resources that is collaborative, cutting edge and cross platform.
- File sharing and publishing (Dropbox, box.net, Scribd, Slideshare)
- Office in the cloud (Googledocs, dropbox) Having your files accessible from anywhere.
- RSS (Igoogle, Google reader, Netvibes) Connecting your social media platform without going crazy.
- Chat and conferencing (GTalk, Mxit, Skype, Nimbuzz, Facebook chat, Wiziq, Connect)

Meet the workshop Facilitator Maggie Verster

Maggie is a passionate School 2.0 (social media) activist for teaching and learning with ICT's and believes that educators need to incorporate social media tools into their teaching strategies in order to effectively engage a new generation of learners. She has delivered numerous peer reviewed papers, keynotes, conducted workshops and developed resources to assist teachers to effectively use ICT and social media for professional development and in their classrooms. She runs various online learning communities for teachers, is part of the top "twitterati" in South Africa. She is currently developing ICT e-learning material for the Commonwealth of Learning. For more information see her blog at www.school2.co.za or follow her learning tweets at www.twitter.com/maggie

Registration Form

Higher Education & ICT Forum

28 – 29 March 2012

Crowne Plaza, Rosebank

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