

AKE



African Knowledge Exchange
Empowering educators through knowledge sharing

PROGRAMME

8th-9th-10th July 2009
Novotel Hotel, Accra, Ghana

WORKSHOP

21st Century Skills, ICT,
Curriculum and Assessment

GENERAL INFO

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WORKSHOP

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Background

Education in the emerging knowledge society is critically important - not only is it the source of basic skills, it is also the foundation for the development of new knowledge and innovation.

Education Ministries in most developing countries have been embarking on reforms to more closely relate and interlink their systems with innovation, knowledge creation, development of creative capacities and the ability to exploit and absorb progressive technologies like ICT that in turn spur economic development.

These reforms aim to equip tomorrow's citizens with increasingly important science and technology related 21st Century skills such as ICT skills, problem solving skills, collaboration skills and higher order thinking skills.

ICT has the potential to transform education; a potential that many developing countries are doing their best to harness. The upcoming AKE will focus on how the optimal use and integration of ICT could enable the transformation of curriculum and assessment systems and contribute towards building a knowledge society for all.

Objectives

The specific objectives of the workshop are:

- Explore what 21st century learning is, how it differs from current practice and models in African schools, and what its requirements are
- Critically examine what designs for learning and assessment, communities for learning, experiences and resources would optimally support 21st century learning
- Explore and identify the tools for learning and infrastructure that would best support the teaching and learning of 21st century skills
- Examine how ICT can help schools to enhance and enrich learning, motivation and the acquisition of higher order thinking skills using a wide range of readily available resources and software
- Identify and reflect on models to build the necessary ICT4E capacities in curriculum and assessment units for the integration and optimal use of ICT in learning
- Discuss and reflect on how curriculum and assessment systems should be aligned and/or transformed to create the learning environment for the acquisition of 21st century skills
- Discuss practical ways and innovative models to build student proficiencies in 21st century skills.

WORKSHOP | DAY 1

Setting the Scene for 21st Century Learning: ICT, Curriculum & Assessment

9:00 - 10:30

OPENING PLENARY SESSION

Moderator

Patti Swarts

Welcome and Opening Remarks

*Rev. Emmanuel Dadebo,
Head of ICT in Education Programmes Unit, Ghana MoE*

Overview of the African Knowledge Exchange (AKE)

Mr. Alex Twinomugisha, Africa General Manager, GeSCI

A Knowledge Society for All: What are the imperatives?

Dr. Jyrki Pulkkinen, GeSCI CEO

Keynote Address:

The Requirements for 21st Century Learning to Support Knowledge Society Development

Hon. Dr. Joseph Annan, Deputy Minister Tertiary Education and ICTs

Launch of Ghana Pre-Tertiary Education Curriculum Framework

Hon. Dr. Joseph Annan and Mrs. Sarah Agyeman-Duah, Director Curriculum Research and Development Division

Introduction of participants

Participants introduce themselves

Opening Session Closing Remarks

WEAC Director (tbc)

Setting the Scene for 21st Century Learning: ICT, Curriculum & Assessment

10:30 - 11:00 **REFRESHMENT BREAK**

11:00 - 13:00 **PLENARY SESSION**

Moderator

Mary Hooker

1. What is 21st Century Learning?

Patti Swarts, GeSCI

2. Video/photo collage: What are the key components of 21st century learning?

Niamh Brannigan, GeSCI - Global Café technique

3. Discussion

All

13:00 - 14:00 **LUNCH**

14:00 - 15:45 **PLENARY SESSION**

Moderator

Mary Hooker

If this is 21st century learning, how does it differ from current practice and models in African schools?

Reflective interactive session facilitated by Dr. Roger Avenstrup, Principal Roaven Educational, drawing on participants' experience, literature and plenary before lunch.

WORKSHOP | DAY 1

Setting the Scene for 21st Century Learning: ICT, Curriculum & Assessment

15:45 - 16:00 **REFRESHMENT BREAK**

16:00 - 17:00 **GLOBAL CAFE'**

Moderator **Presentation of country curriculum and assessment profiles**
Niamh Brannigan *Country representatives*

18:00 **AFTER WORKSHOP SESSION 1**
*Total Cost of Ownership (TCO) tool for e-content development –
introduction and presentation of tool to country representatives,
Esther Wachira, GeSCI Regional e-Learning Specialist*

WORKSHOP | DAY 2

Learning Environments for 21st Century Skills - Curriculum, Assessment & ICT

8:30 - 9:30

PLENARY SESSION

Moderator

Denise Clarke

What 21st Century Students need from their Education Systems: knowledge and skills, attitudes, learning environments, technology and learning models

Panel discussion with panel members drawn from industry, teaching profession (GNAT/NAGRAT), student representatives (National Union of Ghana students/Ghana National Union of Polytechnic Students), representative for Higher Education, Prof. Anomoah Mensah

9:30 - 11:15

PLENARY SESSION

Moderator

Patti Swarts

1. Critical Examination of Designs for Learning and Assessment, Technologies, Communities, Experiences and Resources which would optimally support 21st Century Learning

Interactive presentation facilitated by Dr. Lynn Nolan, Senior Strategic Initiatives Officer ISTE

2. Models and Tools of Learning and Assessment Designs that Support 21st Century Learning

Presentation and demonstration by LIFT Project Limkokwing University of Creative Technology (Malaysia) representative (title of presentation and name of representative to be confirmed)

WORKSHOP | DAY 2

Learning Environments for 21st Century Skills - Curriculum, Assessment & ICT

11:15 - 11:30 REFRESHMENT BREAK

11:30 - 13:00 ROUND TABLE DISCUSSION

Moderator

Mary Hooker

- Where are we now in terms of 21st century learning?
- What is required of 21st century students?
- What curriculum and assessment formats will respond to needs and support the 21st century learning environment?

13:00 - 14:00 LUNCH

14:00 - 15:30 ROUND TABLE DISCUSSION [Cont..]

Moderator

Mary Hooker

- How will technology facilitate and support 21st century learning?
- Leadership and vision for a changing environment
- Professional development models for 21st century learning

WORKSHOP | DAY 2

Learning Environments for 21st Century Skills - Curriculum, Assessment & ICT

15:30 - 16:15 **PLENARY SESSION**

Moderator **Synopsis of highlights from round table discussions**
Esther Wachira

16:15 - 16:30 **REFRESHMENT BREAK**

16:30 - 17:15 **PLENARY SESSION**

Moderator **Essential Conditions for Systemic Transformation of Curriculum and Assessment: *interactive session using rubrics to map out each essential condition - facilitated by Dr Lynn Nolan, ISTE***
Senthil Kumar

18:00 **AFTER WORKSHOP SESSION 2**

Case study: 21st century learning training materials
*Presentation by Ms Agnes Asamoah-Duodu,
Deputy Head ICT in Education Programmes Unit, Ghana MoE*

WORKSHOP | DAY 3

Towards a Framework for 21st Century Learning

8:30 - 9:30

PLENARY SESSION

Moderator

Patti Swarts

What are the fundamental issues to be addressed in aligning curriculum and assessment to implement 21st century learning?

Panel discussion (Drs Avenstrup and Nolan, LIFT Project rep., CRDD Director, WEAC Director, 2x representatives selected by participants)

9:30 - 11:00

GROUP WORK

Moderator

Patti Swarts

What capacities would be required and would need to be built in curriculum and assessment units to develop 21st century learning environments and integrate and use ICT to optimally support 21st century learning

Groups facilitated by resource persons and GeSCI staff. Groups to produce list of capacities, requirements, resources, etc.

11:00 - 11:30

REFRESHMENT BREAK

WORKSHOP | DAY 3

Towards a Framework for 21st Century Learning

11:30 - 13:00 **GROUP WORK [Cont..]**

What technical tools and infrastructure would be required to facilitate the acquisition of 21st century skills?

Facilitated by resource persons and GeSCI staff. Groups to propose solutions, tools, models.

13:00 - 14:00 **LUNCH**

14:00 - 15:00 **PLENARY SESSION**

Where to go from here? Presentation of proposed outline for 21st century learning framework and next steps

Facilitated by Patti Swarts, GeSCI

WORKSHOP | DAY 3

Towards a Framework for 21st Century Learning

15:00 - 15:15 **EVALUATION OF WORKSHOP**

Moderator

Kofi Essien

15:15 - 17:30 **PLENARY SESSION**

Moderator

Denise Clarke

Closing Remarks

Ms Sarah Agyeman-Duah, Director Curriculum Research and Development Division, Ghana

18:00 till late **CULTURAL EVENT, DRINKS AND DINNER**

Afia Beach Hotel

WORKSHOP

Notes



Founded by the UN ICT Task Force