



**The 1<sup>st</sup> Inaugural Africalics Ph.D. Academy on  
Innovation and Economic Development**

**19th to 30th November 2012**

**Host: Moi, University, Kenya**

**Venue: Kenya School of Monetary Studies, Nairobi, Kenya**

**Report for the sponsors and the Scientific Committee of the Globelics  
& Africalics**

**March 2013**

**Ann Kingiri**

**African Centre for Technology Studies (ACTS), Nairobi, Kenya**



## **EXECUTIVE SUMMARY**

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The African Network for the Economics of Learning, Innovation, and Competence Building Systems (Africalics) held its inaugural 2 weeks Ph.D Academy on Innovations and Development in Nairobi, Africa. The purpose of the Academy was to support the training of African Ph.D students engage in research on innovations and technology systems to develop and stimulate their policy awareness and management issues related to their fields of research. This first Academy brought together 30 students and 21 instructors. It targeted the English speaking countries and future academies will aim to address the needs of French speaking countries. The training was delivered via lectures, seminars, roundtable discussions and critical review of students' research by fellow students and senior scholars. The different sessions were structured in a way to encourage active discussion among participants in order to enhance their critical thinking about African Contemporary issues. The climax of the Academy's training was the graduation of Africalics students all of whom were issued with certificates of participation on 30<sup>th</sup> November 2012 upon successful completion of the 2 weeks training. This report highlights the deliberations as well as other non academic activities that contributed to a successful training.

## **THE FIRST AFRICALICS ACADEMY IN NAIROBI, KENYA**

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### **1. Background**

Africalics was launched in Dar es salaam, Tanzania, in March, 2012. Africalics is part of the world-wide research network, The Global Network for the Economics of Learning, Innovation, and Competence Building Systems (GlobeRICS), <http://www.globelics.org/> which brings together scholars interested in innovation studies.

The Africalics main objective is to promote the development of research capacity in Africa with strong links to users – including policy makers and private sector. One long term aim is to enable Africa to become more self-sufficient in studying, monitoring and evaluating its innovation activities and systems through an evidence-based policy orientation for the betterment of society. The work of Africalics intends to complement the research and capacity building activities of other players in innovation studies both in the academic and policy arena.

Africalics has lined up a number of activities in order to achieve its objective of promoting the development of research capacity in Africa. These include regional based PhD Academies planned as part of the endeavour to support the training of African Ph.D/Masters students engaged in research on Innovation and Technology Systems for Development and stimulate their awareness of policy and management issues related to this field of research. These Academies aim to host students selected primarily from Africa and small number of students from the rest of the world. It will be a regular event to take place each year in a different region in Africa. The facilitators will be drawn from frontier researchers in innovation and development from around the world and will be expected to provide lectures and mentor the selected students.

### **2. Highlights of the Academy**

The first inaugural Africalics academy was held in Kenya, from 19<sup>th</sup> November to 30<sup>th</sup> November 2012 at the Kenya School of Monetary Studies (KSMS). This Academy was jointly organized by the African Centre of Technology Studies (ACTS), Kenya which

currently serves as the secretariat to the Africalics and Moi University, Kenya with support from Globelics Secretariat, Aalborg University. The departments at Moi University that hosted the academy are; the School of Business & Economics and School of Biological & Physical sciences. The participants were mainly from English speaking countries. The next Africalics Academy will take place in Algiers in 2013 primarily to address the interests of scholars from francophone countries.

### **2.1 Call for Applications and Review process**

A call for applications to the Africalics Academy Innovation and Development in Africa was rolled out in July 2012 (See Annex 1). The organising committee received 120 applications. Majority of the applicants were from West Africa (mainly Nigeria) and South Africa. The evaluators used the following criteria to evaluate and select the papers.

- Relevance in terms of topic and content as well as quality.
- Regional distribution
- Gender consideration

The list of 30 students who eventually qualified for participation is appended as Annex 2.

During the conference, the organisers had a chance to interact with the participants and it emerged that a few students did not match the quality of applications they submitted for review. This calls for a closer scrutiny of applications in future academies.

### **2.2 The Training Programme and Themes**

The programme was consultatively developed by the organising committee to capture major themes relevant to Africa's innovation and development some of which are highlighted herein.

- Innovations systems, innovations studies and innovation policy
  - Innovations capabilities and relevance to Africa
  - Building innovation systems in developing countries
  - The economic foundations of technology policy
  - Econometrics in relation to innovations and development
  - Unifying system of innovations and productive power in view of how this can inform building of Africalics research programmes
  - Management of innovations at the firm level
1. Innovation indicators
  2. Learning and capability building as strategies for innovations and implications for Africa
  3. The political economy of innovations and challenges of development

The programme was structured to accommodate lectures, seminars, roundtable discussions, students' presentations, commentaries from fellow students and senior scholars and adequate time for discussion (Details, Annex 3).

### **2.3 Official opening of the training**

Among the key highlights of the Academy was the keynote speech by Permanent Secretary, Ministry of State for Planning, National Development & Vision 2030 that was read on his behalf by Dr. Ben Okumu; the Ministry's macroeconomic advisor (the speech is attached as Annex 4). Also among the key speakers at the Academy's opening

session included; Dr. Bitrina Diyamett; chairperson Africalics and Prof. Bengt-Ake Lundvall, Secretary General; Globelics; Aalborg; Denmark. Welcoming remarks were also made on behalf of the Vice Chancellor; Moi University, Executive Director; ACTS and the Secretary/CEO, National Council for Science and Technology (NCST) by their respective deputies; Prof. Bob Whisitemi; DVC Moi University, Dr. Anna Kingiri, ACTS and Dr. Rugutt respectively. After the formal opening ceremony there was an introductory session to Africalics Academy by Dr. Ann Kingiri. In all these speeches, they commended the organizers for a timely endeavour that will go a long way in enhancing Africa's STI capacity for development.

#### **2.4 Lectures**

The academy attracted both local and international lecturers who facilitated the different sessions/activities (See Annex 5). There were in total 21 instructors from about 14 countries who played different roles that included delivering lectures, seminars, round table discussions, commentators and chair of sessions. Lectures which were delivered for 1-2 hours targeted the students while seminars and roundtable discussions were open to other participants like policy makers and academics. Comments and discussion during the lectures was encouraged which made students to be very interactive accompanied by intensive discussions.

Student sessions comprised of presentations for 20 minutes, 10 minutes comments from student commentator who had read the paper in advance, 10 minutes comments from professors and about 5 to 10 minutes wrap up discussion from the audience. Throughout the Academy, at least one (usually more) representatives of local organizing committee were present during the lectures and sessions. In many instances, more than one professor joined the lectures and sessions. Some PhD students from local universities attended some of the lectures.

Documents needed for the conference like students' abstracts, papers and presentations as well as papers provided by lecturers and their presentations were prepared well in advance before the sessions. Some lecturers requested print outs before the lecturers which was done by organisers. Some of these materials were available at the Globelics Academy website before respective sessions took place (where availed by lecturers and students).

#### **2.5 Seminars and round table discussions**

The seminars were aimed at addressing some questions that are at the core of African development. They covered contemporary themes and challenges in Africa's innovation and development agenda. They intended to provide students with the most updated knowledge on innovation studies, with particular reference to current issues in Africa. The seminars were provided by world experts in the field and were structured in such a way that students actively participated in the discussion. This allowed them to develop their critical thinking about African contemporary issues.

The roundtable discussions intended to address "vanguard" issues in African innovation and development as well as policy; directly focusing on questions identified as critical to push Africa's research agenda, but where limited research has been done. This was done via short presentations (about 10 minutes), leaving plenty of time for intensive discussion and brainstorming with students. The idea behind these sessions was to familiarize participants with debating skills, create an interactive and inclusive environment for

discussion, and provoke creative thinking on un-resolved issues in the African research and policy agenda.

Both the seminars and roundtable discussion sessions were advertised through different channels to potential participants prior to the training (see Annex 6). These sessions attracted a number of practicing scholars and policy makers.

## **2.6 Outcomes related to the training**

Some selected points are reported herein to reflect the positive outcome of the training:

- The support from the policy makers in two key ministries namely; Ministry of Planning, Development and Vision 2030 and Ministry of Higher Education, Science & Technology. In recognition of the importance of the training, key senior officers had been nominated to represent these ministries and also attend the training.
- The high level of interaction between the instructors and students.
- Students commenting on each other's work reflected a high level of engagement as well as interest.

## **3. THE EVALUATION SURVEY**

### **3.1 Background**

In the first to the second week after the Academy an anonymous survey was carried out among students, lecturers and organizers aimed at collecting feedback and ideas for future events. Reminder notifications were sent out twice. Overall response rate was at about 91 percent.

### **3.2. Structure of the survey**

The survey was structured in 3 parts. One part that was to be answered by both students and instructors (lecturers and organizers): This part comprised of;

- Overall evaluation of the course and program
- Coverage of particular thematic and methodic aspects
- Open comments

The second part was for students and captured;

- Usefulness of particular program aspects
- Assessment of potential change of time and attention distribution between different program parts
- Assessment of support related with other program modifications
- General individual information concerning study conditions, progress and professional aspirations

The 3<sup>rd</sup> part was for instructors and focused on;

- Assessment of availability for future academies
- Interest in engaging more intensively into particular parts of the program

### **3.3. Results of evaluation survey**

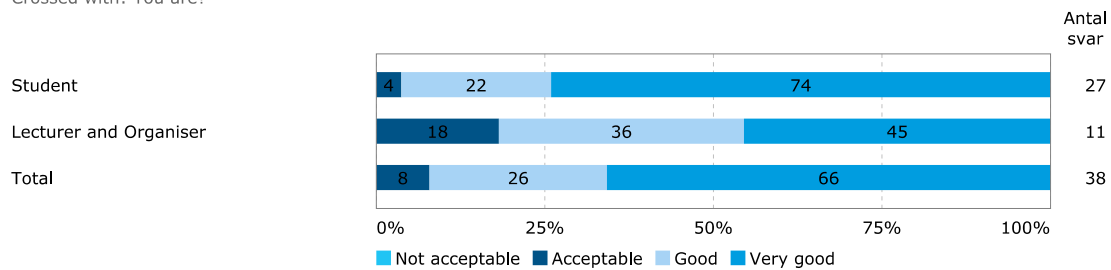
51 questionnaires were distributed. 11 lecturers and organizers, and 27 students responded. As shown below, overall participants were mainly satisfied with the academy and the academy's structure. The overall contents of the lectures received positive evaluations by both students and lecturers. Majority of students and lecturers agree that

overall innovation-theories received enough attention. A significant number of students (26%) stated that the aspect received too much coverage. Although the majority of students and lecturers agree that Africa-focused innovation issues and theories of development, received enough coverage, there is also a significant number of respondents, who wished a stronger coverage of these topics.

### *Student and lecturers part*

How would you rate? - Overall assessment of the course?

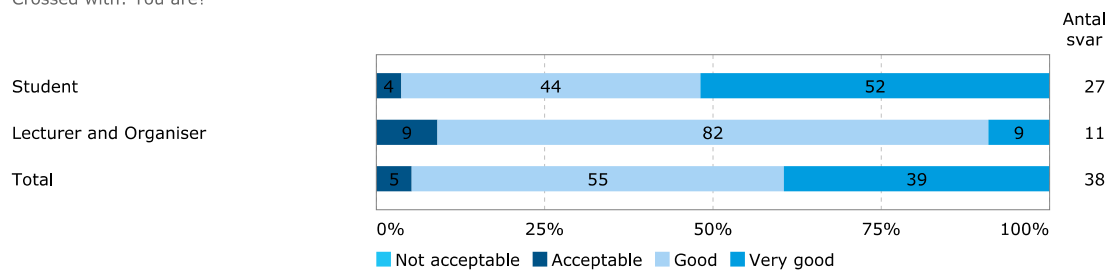
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Overall participants were mainly satisfied with the academy. Lecturers were however, more critical than students.

How would you rate? - The overall structure of the program?

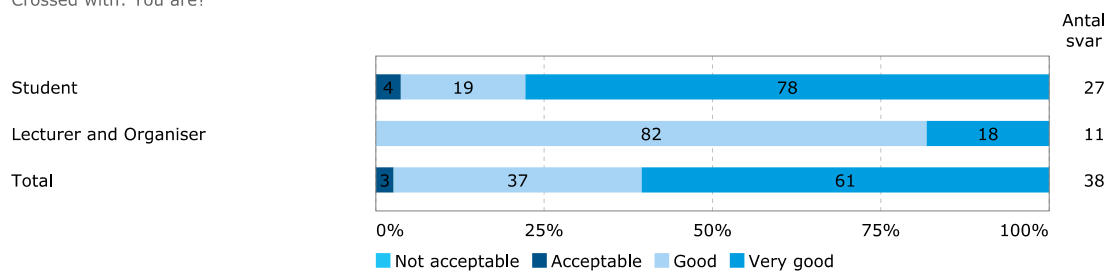
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A similar picture can be seen in the evaluation of the academy's structure. Again, lecturers seem to be more demanding than students.

How would you rate? - The overall content of the lectures?

Crossed with: You are?

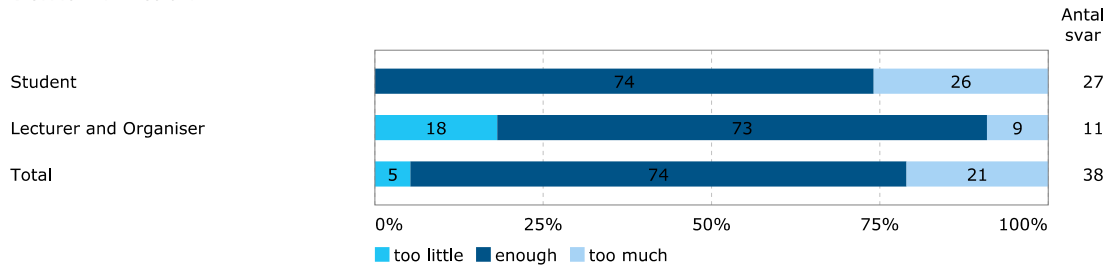


Also the overall contents of the lectures received positive evaluations by both students and lecturers.

## Coverage of individual thematic and methodic aspects

Please assess the amount of coverage given to each of the following topics - Overall theory of innovation

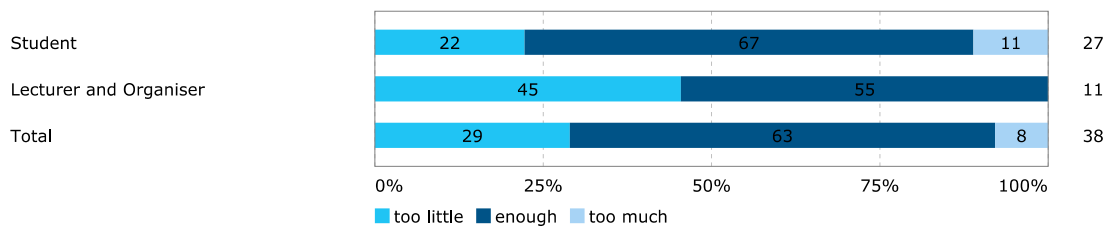
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A majority of students and lecturers agrees that overall innovation-theories received enough attention. A significant number of students (26%) stated that the aspect received too much coverage.

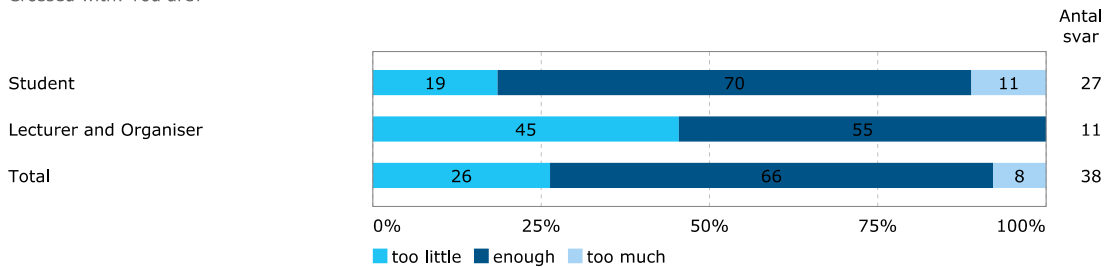
Please assess the amount of coverage given to each of the following topics - Africa-focused innovation

Crossed with: You are?



Please assess the amount of coverage given to each of the following topics - Theories of development

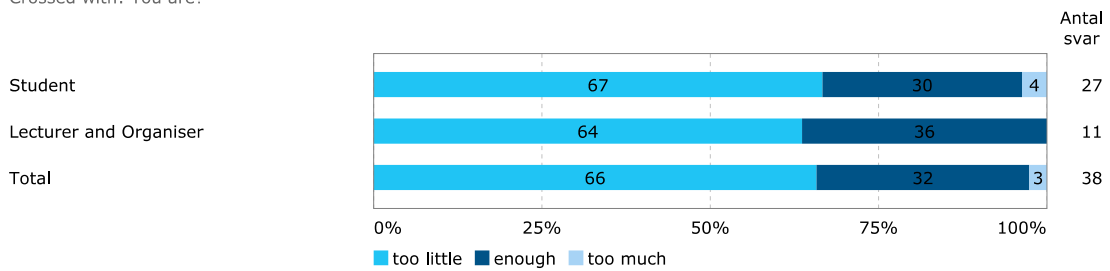
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Although the majority of students and lecturers agree that Africa-focused innovation issues and theories of development, received enough coverage, there is also a significant number of respondents, who wished a stronger coverage of these topics.

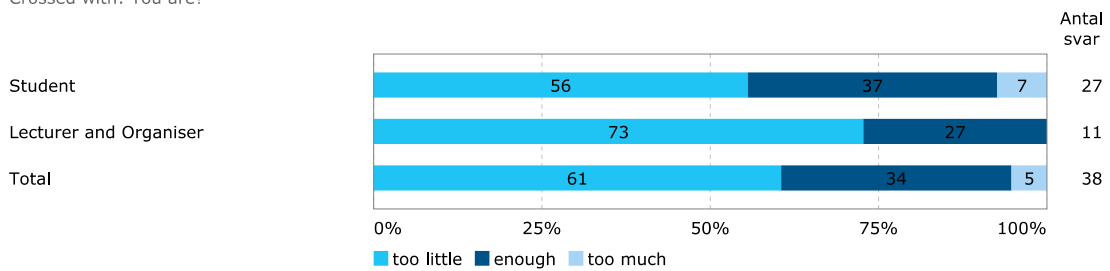
**Please assess the amount of coverage given to each of the following topics - Research methodology**

Crossed with: You are?



**Please assess the amount of coverage given to each of the following topics - Research tools and data analysis**

Crossed with: You are?



Students and lecturers agree that in future more attention should be given to research methodology and training in the use of concrete research tools and data analysis techniques (e.g. econometrics, computer supported qualitative data evaluation, social network analysis etc).

**4. ACCOMMODATION**

Lecturers were accommodated at The Hilton Hotel, Nairobi which made accessibility easy as it is ideally placed at the Central Business District. The choice of the hotel was arrived at by the local organizers who also covered the costs. Each lecturer had the privilege of having their own room. The Students were accommodated at the Kenya School of Monetary Studies (KSMS), where the training was also held. KSMS was a perfect choice as it is situated in a very convenient and the secure area. The students too were put up in individual rooms.

**5. SOCIAL PROGRAM**

The Social program was an important part of the Academy. It was organized for the students to interact more out of the academic setting. Though it was optional, there was a high turnout of 27 out of 30. The program was scheduled for the first Saturday of the academy, the 24<sup>th</sup> Nov 2012.

The set out time was 10am to run the whole day; first stop was the Maasai Market where the group shopped for souvenirs.

Next stop was the Bomas of Kenya a tourist attraction where traditional villages belonging to the several Kenyan tribes are (homesteads) displayed.



There was entertainment from a number of traditional dancing groups from different groups of Kenya. The site was preserved and maintained to promote rich and diverse cultural values of various tribal groups of Kenya.

Finally, at around 6:00pm the group was taken for dinner at the carnivore grounds restaurant, a popular tourist destination. It is an open-air restaurant in the suburb of Nairobi with specialty in meat, and features an all-you-can-eat meat buffet. The restaurant serves a wide variety of meat and is famous for their game meat.

On 29<sup>th</sup> November there was a cocktail at the KSMS restaurant where all the students and organisers were invited. This social activity was a farewell get-together for the students.

## **6. LESSONS LEARNED FOR THE ORGANIZATION OF FUTURE ACADEMIES**

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Students and lecturers agree that in future more attention should be given to research methodology and training in the use of concrete research tools and data analysis techniques (e.g. econometrics, computer supported qualitative data evaluation, social network analysis etc).

Interaction with participants exposed the kind of students admitted to the academy. Majority were very good students but a few cases did not match the applications they provided for review. This calls for a closer scrutiny of applications submitted for review in future academies. A discussion between the organisers and Ana, from Sida suggested that selection process may factor in a further follow-up targeting the selected candidates to ensure that the right candidates are eventually selected for participation. This may take a form of a Skype call or any other mechanisms acceptable to the organisers and students.

Regarding the accommodation for facilitators, some lecturers recommended that students and lecturers should be accommodated in the same facility/hotel.

## **7. ORGANISATION AND CONTACT DETAILS**

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As mentioned previously, AfricaLics is part of the world-wide Globelics network. The 1<sup>st</sup> PhD Academy was one of the many activities that Africalics will be undertaking. It was jointly organized by ACTS, Kenya as the secretariat to the Africalics, and Moi University as the host, Kenya with support from Globelics Secretariat, Aalborg University, Denmark.

### **Contact persons**

- Faith Rono, ACTS (stpi@acts.or.ke; f.rono@acts.or.ke)
- N. K. Tuiyot, Moi University (dvcre@mu.ac.ke; nktuiyot@yahoo.com)
- Rasmus Lema, Globelics Secretariat, Aalborg University (lema@business.aau.dk)

### **Local Coordinators**

- Dr. Anna Kingiri, ACTS (A.Kingiri@acts.or.ke)
- Prof. B. Weshitemi, Moi University (dvcre@mu.ac.ke)

Websites Globelics <http://www.globelics.org>  
African Centre of Technology Studies <http://www.acts.or.ke>

Following an impromptu and random evaluation, the local organization of the Academy was rated as excellent by over 90% of the attendees.

## 8. FUNDING AND BUDGET

The local organizing committee approached several potential funding institutions to facilitate any of the Globelics activities. Most of them expressed their willingness to support but were disadvantaged by inadequate funds. They however hoped to support the same endeavour in future, citing its relevance to Africa's development.

All travelling costs and accommodation for both students and lecturers were met by Sida through Globelics Secretariat. The IDRC, Moi University and ACTS co-sponsored all costs related to accommodation and local transport for local organizing team. The cost of the dinner during one of the social event at Carnivore restaurant was met by the Government of Kenya through the National Council for Science and Technology (NCST).

### Summary of expenditure

AFRICAN CENTRE FOR TECHNOLOGY  
STUDIES (ACTS)

**Financial Report for Africalics Training**  
18 - 30 Nov. 2012

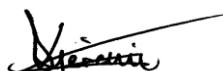
Source: Globelics, IDRC and Government of  
Kenya

Cost Elements	Expenditure
Accommodation for Lecturers	15,338
Accommodation for Students	22,349
Group Dinner	2,771
Airport and Ground Transfers	2,093
<b>Overall total</b>	<b>42,551</b>

Prepared by: *David Njenga*

Designation: *Project Accountant*

Signature:



Date: January 31, 2013

Reviewed and Approved by: *Fridah Nkirote*

Designation: *Finance & Administration Manager*

Signature:



Date: January 31, 2013

## ANNEXES

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### **Annex 1: Call for the AfricaLics Academy Innovation and Development in Africa, 2012**

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*Call for papers and invitation to Research Training, 19<sup>th</sup> November – 30<sup>th</sup> November 2012, Moi University, Kenya*

The purpose of the *African Academy for Research Training on Innovation and Competence Building Systems* (AfricaLics Academy) is to support the training of African Ph.D. students engaged in research on Learning, Innovation and Competence Building Systems for Development and stimulate their awareness of policy and management issues related to this field of research.

The Academy aims at improving students' ability to undertake theoretically informed and policy-relevant empirical work on issues related with innovation in firms and societies, and its relationship with economic development. The Academy will invite frontier researchers in innovation and development from around the world to provide lectures and mentor students. The topics of the lectures will cover specific issues within innovation studies and economic development as well as research methods and innovation policy. Particular attention will be given to topics directly relevant to African priorities. The on-going work of participants will be discussed and they will get feedback from senior scholars and from the other participants.

The list of invited international lecturers include: Abdelkader Djeflat (Algeria and France); Anthony Arundel (Canada); Banji Oyeyinka (Kenya); Bengt-Åke Lundvall (Denmark); Calestous Juma (USA); Fred Gault (Netherlands); Keun Lee (South Korea); Mammo Muchie (Ethiopia and Denmark); Martin Bell (United Kingdom); Rasigan Maharajh (South Africa).

#### **Qualification requirements**

To qualify for participation, the PhD student should fulfil the following requirements:

- Work explicitly on issues related to Learning, Innovation and Competence Building Systems in Africa
- Be able to present an original paper associated with his/her research work.
- Be at least in their second year of their doctoral studies.

PhD students in their first/second year or master students who plan to join a PhD-program with the aim of carrying out relevant research may apply and may be accepted for the Academy depending on the availability of space. Relevant experience in Science, Technology and Innovation policy making in Africa is preferable but not required. Participants must submit an application with a paper summary (e.g. theory driven paper, progress report, empirical analysis or PhD proposal) of no more than 5 pages by *August 15, 2012*. The paper should state the objectives, methodology, expected results and conclusions of the work. The paper summary, a CV and a recommendation letter from the supervisor or a senior scholar should be sent as email attachments to [stpi@acts.or.ke](mailto:stpi@acts.or.ke)

#### **Relevant dates for participants**

- Deadline for submission of student applications: *15 August 2012*
- Deadline for letter of acceptance for students: *15 September 2012*

## Working Language

This first AfricaLics Academy at Moi University, Kenya, will have English as working language. The second AfricaLics Academy to take place in Algiers April 16-30 in 2013 will use French as main language.

## Accommodation and travel costs

Access to the course activities is free and accommodation expenses including meals will be covered for all selected participants. We encourage applicants to apply to their host institution or projects for travel support before sending applications. Applications for travel expenses for participants unable to secure funding from their institutions will be considered. Students must specify in their application whether they will require funding, providing an estimate of the amount required for travel expenses. Participants from outside Africa are expected to pay their travel costs with funds from their own institutions. The organizers cannot provide upfront coverage of travel costs, but can only reimburse costs after the event and on the basis of proper documentation.

## Annex 2: Participants of Africalics PhD Academy, 19th - 30th November 2012

	Names	Country	Qualification
1	Samuel N. Fongwa	Cameroon	PhD
2	Ian K. Alexander	Dominica Republic	PhD
3	Aschalew Demeke	Ethiopia	PhD
4	Abdi Yuya Ahmad	Ethiopia	PhD
5	Juliana Machuve	Tanzania	PhD
6	Lawrence Kerefu	Tanzania	PhD
7	Julien Rumbelow	South Africa	PhD
8	Richmond Atta-Ankomah	Ghana	PhD
9	Botchie David	Ghana	PhD
10	Agyei-Holmes Andrew	Ghana	PhD
11	Mwanja Christine	Uganda	MSC
12	Wendiro Debora	Uganda	PhD
13	Bubou Gordon Monday	Nigeria	PhD
14	Olawale Oladipo Adejuwon	Nigeria	PhD
15	Akinleye Adewumi Funmiso	Nigeria	PhD
16	Jonathan Akinsola Akinwale	Nigeria	PhD
17	Jegede Oles eye	Nigeria	MSC
18	Isola Oluseyi	Nigeria	PhD
19	Abiodun Adeyemi Egbetokun	Nigeria	PhD
20	Sam Takavarasha	Zimbabwe	PhD
21	Awa Traore	Senegal	MA
22	Nima Fallah	France	PhD
23	Fayaz Ahmad Sheikh	India	PhD
24	Everlyn Museny'a Muyanga	Kenya	PhD
25	James Messo Raude	Kenya	PhD
26	Judith Anyango Okoth	Kenya	PhD
27	Wamalwa Nyukuri H.	Kenya	PhD
28	Thomas Billy Bor	Kenya	PhD
29	Elijah Kiplang'at Ng'eno	Kenya	PhD
30	Japheth k. Kogei	Kenya	PhD
<b>Other participants</b>			
31	Stephen Odhiambo	Deputy Chief Economist, Kenya	
32	Cecilia Nzau	Principal Research Officer, Kenya	

### Annex 3: Full Programme of the Africalics Academy - 19<sup>th</sup> to 30<sup>th</sup> November 2012

	Type of Activity	Description	Proposed Topic	Facilitator
<b>Sunday 18<sup>th</sup> Nov. 2012:</b> Arrival of Guests				
<b>Monday 19<sup>th</sup> Nov.</b>				
9:00 – 9:30	Registration			
9:30 – 11:15	Welcome session/ Official Opening of Africalics Academy	Opening session (separate programme)		Moderator: Prof. Wishitemi, Deputy VC, Moi, University
	<b>Type of Activity</b>	<b>Description</b>	<b>Proposed Topic</b>	<b>Proposed Lecturers</b>
11:15 – 11:30	Coffee break			
11:30 – 12:30		Special session	Introductory session to Africalics Academy	All students & facilitator: Anna Kingiri
12:30 – 13:30	Lunch			
13:30 – 15:00	Lecture 1	Basic and general themes	An introduction to innovation studies and innovation policy	B.A. Lundvall
15:00 – 15:15	Coffee break			
15:15 – 17:00	Lecture 2	Basic and general themes	The history of innovation systems thinking	B.A. Lundvall
<b>Tuesday 20<sup>th</sup> Nov.</b>				
9:00 – 10:30	Lecture 3	Basic and general themes	Centralised and decentralised accumulation of innovation capabilities in African innovation systems - key issues for policy	M. Bell
10:30 – 10:45	Coffee Break			
10:45 – 12:15	Student Presentations (1-2)		1- <u>Samuel N. Fongwa</u> : Enhancing knowledge transfer in regional development: Case of a less favoured region 2- <u>Juliana Machuve</u> : Design and development of a technological Innovation Conceptual framework for business technology incubators: case study in Tanzania	Commentator: A. Djeflat Chair: B. Diyamett
12:15 – 13:15	Lunch			
13:15 – 14:45	Student Presentations (3-4)		3- <u>Jegede Oleseye</u> : Assessment of capabilities for technological innovation in the indigenous oil and gas firms in Nigeria 4- <u>Ian K. Alexander</u> : A Systematic Review of Entrepreneurial Learning	Commentator: M. Bell Chair: B.A. Lundvall
14:45 – 15:00	Coffee break			
15:00 – 16:30	Lecture 4	Basic and general themes	Building innovation systems in developing countries: issues and prospects	A. Djeflat
16:30 – 16:45	Coffee break			
16:45 – 18:15	Student Presentations (5)		5- <u>Isola Oluseyi</u> : Clustering and upgrading: Study of footwear clusters in Nigeria	Commentator: B. Oyeyinka
<b>Wednesday 21<sup>st</sup> Nov.</b>				
9:00 – 10:30	Student Presentations (6-7)		6- <u>Bubou Gordon Monday</u> : Sectoral systems of innovation and the technological innovativeness of petroleum firms in Nigeria	Commentator: B. Oyeyinka Chair: A. Kingiri

			7- <u>Abiodun Adeyemi Egbetokun</u> : Networking, absorptive capacity and Innovation in latecomer settings: Empirical studies in the Nigerian Context	
10:30 – 10:45	Coffee Break			
10:45 – 12:15	Lecture 5	Basic and general themes	Neglected dimensions of innovation system policy in African economies	M. Bell
12:15 – 13:15	Lunch			
13:15 – 14:45	Student Presentations (8-9)		8- <u>Fayaz Ahmad Sheikh</u> : Informal Innovations And The National Innovation System: Comparative Study Of Kenya, India and China 9- <u>Akinleye Adewumi Funniso</u> : A study of intrinsic & extrinsic motivations in auto mechanics grassroot innovators in south-western Nigeria.	Commentator: M. Bell Chair: W. Wamae
14:45 – 15:00	Coffee break			
15:00 – 16:30	Student Presentations (10-11)		10- <u>Nima Fallah</u> : Leading innovative communities of practice in Africa: The case of united nations economic commission 11- <u>Wamalwa Nyukuri Herbert</u> : A Review of Main Innovation Themes as they Pertain to the Food Processing Industry in Kenya	Commentator: B. Oyeyinka Chair: A. Kingiri
16:30 – 16:45	Coffee			
<b>Thursday 22<sup>nd</sup> Nov.</b>				
9:00 – 10:30	Student Presentations (12-13)		12- <u>Lawrence Kerefu</u> : Development of A model for accessing Organizational Innovation in Research and Development (R & D) Institutions 13- <u>Jonathan Akinsola Akinwale</u> : Effectiveness of public-private partnerships on rice production in North-Central, Nigeria	Commentator: B. A. Lundvall Chair: A. Kiprof (Moi University)
10:30 – 10:45	Coffee Break			
10:45 – 12:15	Lecture 6	Basic and general themes	The Economic Foundations of Technology Policy	D. Kaplan
12:15 – 13:15	Lunch			
13:15 – 14:45	Student presentations (14-15)		14- <u>Elijah kiplang'at ng'eno</u> : Linking smallholder livestock producers to high value milk markets and halting post-harvest milk losses: a case and model for sustainable cooperative and collective action in kericho county, kenya. 15- <u>Everlyn okoth museny'a muyanga</u> : Assessment, Improvement and Development of Postharvest Handling and Value Addition Technologies of Mangoes in Kenya	Commentator: Mary Kipsat (Moi University) Chair: W.Wamae
14:45 – 15:00	Coffee break			

15:00 – 16:30	Student Presentations (16-17)		16- <u>Sam Takavarasha</u> : Adoption of ICT for Development in Zimbabwe 17- <u>Awa Traore</u> : Telephony mobile phone in Sub Saharan Africa: Impact on Technological Innovation	Commentator: D. Kaplan Chair: J. Kiplang'at (Moi University)
16:30 – 16:45	Coffee break			
16:45 – 18:15	Student Presentations (18-19)		18- <u>Margaret Dhabangi</u> : Health systems in rural Uganda: Identifying gaps and providing local solutions – a case of herbal medicine in Kamuli district of Uganda 19- <u>Deborah Wendi</u> : Innovation dynamics in cassava production systems in Uganda	Commentator: A. Kingiri Chair: Billy Makumba (Moi University)
<b>Friday 23<sup>rd</sup> Nov.</b>				
9:00 – 10:30	Student Presentations (20-21)		20- <u>James messo raude</u> : Designing an Innovative System for Treating Greywater for Urban and Peri-Urban Areas 21- <u>Likaka alexander Luchetu</u> : Role of Knowledge Transfer and farmers' Socio-economic Background in the Adoption of in Potato Production Innovations in selected locations in Ethiopia and Uganda	Commentator: Mary Kipsat (Moi University) Chair: W. Wamae
10:30 – 10:45	Coffee Break			
10:45 – 12:15	Seminar 1	Contemporary themes and challenges in innovation and Development agenda	Building linkages from commodity production in Africa	D. Kaplan
12:15 – 13:15	Lunch			
13:15 – 14:30	Student Presentations (22-23)		22- <u>Richmond Atta-Ankomah</u> : Chinese Capital Goods in Kenya's Furniture Industry: An Assessment of Distinctiveness 23- <u>Botchie David</u> : Comparative analysis of Asian drivers and Western capital goods: a case of the garments and textiles sector in Uganda.	Commentator: D. Kaplan Chair: A. Kiprop (Moi University)
14:30 – 14:45	Coffee break			
14:45 – 16:15	Student Presentations (24-25)		24- <u>Olawale Oladipo Adejuwon</u> : A Study of the Adoption of Technological Innovations in Small Scale Oil Palm Processing Sector 25- <u>Sharron Mirrella</u> : Utilizing Information and Communications Technology to Enhance the Efficiency of Environmental Impact Assessment: Kenya as a Case Study	Commentator: B.A Lundvall Chair: Billy Makumba (Moi University)
16:15 – 16:30	Coffee break			
16:30 – 18:30	Student Presentations (26-27-28)		26- <u>Agvei-Holmes Andrew</u> : Understanding the Distinctive Nature of Southern Capital Goods in	Commentator: E. Kraemer-Mbula Chair: Ben Muok (ACTS)

			the Agricultural Sector of Tanzania: Implications for Growth and Distribution	
			27- <u>Aschalew Demeke</u> : Technology Innovations systems and technology diffusions: adoption of bio-digestion in an emerging innovation systems in Rwanda	
<b>Saturday 24<sup>th</sup> November: Cultural/Social Activity</b>				
<b>Sunday 25<sup>th</sup> November: Free Day</b>				
<b>Monday 26<sup>th</sup> November</b>				
9:00 – 10:30	Lecture 7	Basic and general themes	Geography, Development and Econometrics	B. Verspagen
10:30 – 10:45	Coffee Break			
10:45 – 12:15	Seminar 2	Contemporary themes and challenges in innovation and Development agenda	Global Innovation Networks: Are they relevant to African development?	H. Barnard
12:15 – 13:15	Lunch			
13:15 – 14:45	Student Presentations (29-230)		28- <u>Abdi Yuya Ahmad</u> : Innovation, competitiveness and performance of manufacturing industries in Ethiopia 29- <u>Julien Rumbelow</u> : Knowledge Intensive Services for Job Creation in the South Africa: Innovation in Banking, Engineering and Information Technology (software development)	Commentator: K. Lee Chair: T. Kjellvist
14:45 – 15:00	Coffee break			
15:00 – 17:00	Roundtable session 1		How can university research better respond to the reality and needs of developing countries?	Facilitator: Ellie Osir Commentators: T. Kjellqvist, H.Barnard, M. Muchie, E. Kraemer-Mbula
17:00 – 18:00		Special session	Writing development seminar	H. Barnard
<b>Tuesday 27<sup>th</sup> November</b>				
9:00 – 10:30	Lecture 8	Basic and general themes	Using econometrics to link innovation and development	B. Verspagen
10:30 – 10:45	Coffee break			
10:45 – 12:15	Seminar 3	Contemporary themes and challenges in innovation and Development agenda	New Alternative Thinking in Economic development	K. Lee
12:15 – 13:15	Lunch			
13:15 – 14:45	Seminar 4	Contemporary themes and challenges in innovation and Development agenda	The role of donor organisations in promoting innovation and competence building	T. Kjellqvist
14:45 – 15:00	Coffee			
<b>Wednesday 28<sup>th</sup> November</b>				
9:00 – 10:30	Seminar 5	Contemporary themes and challenges in innovation and Development agenda	Economics of technological catch-up and learning	K. Lee



10:30 – 10:45	Coffee Break			
10:45 – 12:15	Seminar 6	Contemporary themes and challenges in innovation and Development agenda	Economic Exclusion and Ecological Crises: Contemporary Challenges for Innovation Systems Research	R. Maharajh
12:15 – 13:15				
13:15 – 14:45	Student Presentations (31-32)		30- <u>Mwanja Christine</u> : Ecosystem services: how can they contribute to sustainable growth that benefits the poor in rural Uganda	Commentator: R. Lema Chair: R. Maharajh
14:45 – 15:00	Coffee break			
15:00 – 16:30	Seminar 7	Contemporary themes and challenges in innovation and Development agenda	'Unifying system of Innovation and Productive Power Theories for Re-Designing An Integrated African Structural Transformation Agenda: Some Additional Suggestions for Inclusion in Building the Africalics Research Programme'	M. Muchie
16:30 – 18:00	Roundtable session 2		Can innovation systems improve social inclusion in Africa?	Anna Kingiri, Bitrina, W. Wamae, E. Kraemer-Mbula, Ellie Osir
<b>Thursday 29<sup>th</sup> November</b>				
9:00 – 10:30	Seminar 8	Contemporary themes and challenges in innovation and Development agenda	Foundations of the management of innovation – firm level conceptual and empirical issues	G. Marcelle
10:30 – 10:45	Coffee Break			
10:45 – 12:15	Seminar 9	Contemporary themes and challenges in innovation and Development agenda	Innovation indicators	F. Gault
12:15 – 13:15	Lunch			
13:15 – 14:45	Roundtable session 3		Aligning national and global priorities/challenges in sti policy and innovation practice	F. Gault, Rasmus Lema, R. Maharajh, C. Kiamba/ Eric E. Mwangi, Bitrina D, Ellie Osir
14:45 – 15:00	Coffee break			
15:00 – 17:30/18:00	Workshop		Workshop on Steps to Innovation and Research Infrastructure: Kenya's case	Eric Mwangi, and Gatama Gichini, Ministry of Higher Education, Science & Technology, Kenya)
<b>Friday 30<sup>th</sup> November</b>				
9:00 – 10:30	Seminar 10	Contemporary themes and challenges in innovation and Development agenda	Learning and capability building as strategies for innovation in firms and nations: perspectives and implications for Africa including for a research agenda	G. Marcelle
10:30 – 10:45	Coffee Break			
10:45 – 12:15	Seminar 11	Contemporary themes and challenges in innovation and	User-led innovation/ innovation policy	F. Gault

		Development agenda		
12:15 – 12:30	Discussion			All
12:30 – 13:00	Lunch			
13:00 – 14:30	Seminar 12	Contemporary themes and challenges in innovation and Development agenda	The political economy of Innovation and the challenges of development	R. Maharajh
14:30– 15:00	Evaluation/Feedback from students			
15:00– 15:30	Closing session	Prof. Richard K. Mibey, Vice Chancellor, Moi University Representative from Ministry of Higher Education, Science & Technology, Kenya		Moderator: Prof. Wishitemi, Deputy VC, Moi, University
15:30 – 15:45	Vote of Thanks	Dr. Ben Muok, ACTS		Anna Kingiri, ACTS
15:45 – 16:00	Refreshments & departure			
<b>Saturday, 1<sup>st</sup> Dec. 2012 – Departure</b>				

#### **Annex 4: Key Note Speech by Guest of Honour during Official Opening of the Academy**



**Office of the Director  
Infrastructure, Science, Technology and Innovations Directorate  
Ministry of State for Planning, National Development and Vision 2030**

Key Note Speech By Dr. Edward Sambili; Cbs Permanent Secretary; Ministry Of State For Planning, National Development & Vision 2030: During Launch Of Africalics Academy, Kenya School Of Monetary Studies On 19<sup>th</sup> November, 2012 As Chief Guest

- Prof. Bitrina Diyamett; Executive Director, STIPPRO & President Africalics
- Prof. Bengt-Ake Lundvall; President of Globelics Network, Aalborg University
- Prof. Richard K. Mibey; Vice Chancellor, Moi University
- Prof. Judi Wakhungu, Executive Director, ACTS
- Prof. Shaukat A. Abdulrazak; Secretary and CEO, National Council for Science & Technology
- Distinguished Scholars, guests, Participants, ladies and gentlemen,

It gives me great please to preside over the Inaugural 2 Weeks Africalics Networks launch of the Academy on Innovation and Development in Africa that is jointly being hosted by Moi University, School of Information Sciences and the Africa Centre for Technology Studies (ACTS).

First and foremost, I am pleased to note that Africalics long term objectives are to enable the African continent to become increasingly self sufficient in studying, monitoring and evaluating its innovation and technology systems for development and to develop evidence base for policy making. This objective is in line with Kenya Government's goal towards the realization of the National Development Blueprint, the Kenya Vision 2030.

Indeed, when I received invitation to support Africalics Networks, I considered this a great opportunity for us in Kenya and for my Ministry in particular as a key player in the National Development process to participate and support Africalics Networks. We are therefore honoured

and privileged to be part of Africalics Networks Academy's Inauguration Ceremony. I am further pleased to note that my Ministry has been accorded the opportunity to support this noble network and participate in its inaugural training programmes.

I therefore wish to extend my gratitude to the organizers and sponsors of the Africalics Networks and particularly the Vice Chancellor, Moi University and the Executive Director, ACTS for their confidence in our Ministry's role in spearheading Kenya's National development process and of course for having invited my Ministry to participate in today's events and subsequently in the Academy's training programmes for the next 2 weeks.

### **Distinguished Scholars, guests, ladies and gentlemen,**

Kenya is in the process of preparing her 2<sup>nd</sup> Medium Term Plan for the Vision 2030 that will guide the national Development Agenda for the next 5 years and beyond. Therefore, the Africalics Networks provide a grand opportunity to guide the integration of Science, Technology and Innovation (ST&I) in our National Development Agenda. This is because Africalics Networks seek to promote the development of Science, Technology and Innovation research capacity in Africa with strong links to users including policy makers.

We further appreciate that both Moi University, School of Information Sciences and ACTS are our key partners under the Ministry's Science Technology and Innovations (ST&I) Stakeholders Forum and Core Team meetings to promote Research, Science, Technology and Innovations and help create the required synergies to carry forward the national development process.

Therefore we acknowledge and appreciate that a forum like Africalics Networks will ultimately strengthen our existing collaborative networks and mechanisms with the two (2) institutions and link us with many more in the continent. We further expect that Africalics Networks will further build on the work that is already ongoing under our the existing ST&I partnership arrangements and will therefore help to significantly expand our scope and widen our horizons of shared common platforms for knowledge sharing and transfer besides helping in Kenya to appreciate and compare as well as learn from other experiences and the best practices in the world.

I say so because Africalics Academy being inaugurated here today has brought together frontier researchers in innovation and technology systems development from around the world to provide lecturers and mentor our broad range of selected participants from around the continent. Indeed, in the long term, the benefits of Africalics network will thus result in making Africa self sufficient with appropriate ST&I research capacities which we currently consider to be the missing link in our continental development endeavours.

We therefore strongly believe that the work being initiated here today will help strengthen the monitoring and evaluation of the innovation ecosystems for the betterment of society through evidence based policy orientation. In the final analysis, it is expected that the participation of innovation systems and technology scholars will help to contribute to the ability of the African countries to strengthen their policy design, to correctly put in place corrective measures to ensure smooth production, dissemination and use of knowledge for socio-economic development.

It is further gratifying to note that Africalics Academy will open and provide creative training and quality enhancing mechanisms to create first rate researchers in Africa. Above all, Africalics Networks are also expected to help create further enduring networks in the area of innovations and technology systems for development across Universities and research institutions. This in essence would immensely contribute to achieving the threshold of the research necessary to enhance the productivity of the continent for all sectors and help reverse the erosion of capacity of African Universities as well as open up new avenues of research and knowledge infrastructure for mobility and sharing of research ideas and other recent cutting edge knowledge.

In conclusion, **Distinguished Scholars, guests, ladies and gentlemen**, I wish to unreservedly offer my sincere commitment and support to Africalics Networks and promise to always be available to offer both financial and other necessary policy guidance.

I am indeed, Glad that the Ministry of State for Planning, National Development and Vision 2030 is ably represented in Africalics Networks Inaugural Training by the Infrastructure, Science, Technology & Innovations Directorate. I therefore look forward to be adequately updated and briefed on the proceedings of the Inaugural Training Workshop. Thank you once again for inviting us.

*With these few remarks, I now wish declare the Africalics Networks Academy Inaugural Training Programme officially launched.*

#### **Annex 5: List of Instructors (Lecturers and Commentators)**

	<b>Name</b>	<b>Country</b>
1	Abdelkader Djeflat	Algeria and France
2	Fred Gault	Netherlands
3	Martin Bell	United Kingdom
4	Bengt-Åke Lundvall	Denmark
5	David Kaplan	South Africa
6	Bart Verspagen	Netherlands
7	Helena Barnard	South Africa
8	Keun Lee	South Korea
9	Tomas Kjellqvist	Sweden
10	Mammo Muchie	Ethiopia and Denmark
11	Rasigan Maharajh	South Africa
12	Gillian Marcelle	South Africa
13	Bitrina Diyamett	Tanzania
14	Watu Wamae	UK
15	Erika Kraemer-Mbula	South Africa
16	Rasmus Lema	Denmark
17	Anna Kingiri	Kenya
18	Banji Oyeyinka	Kenya
19	Mary Kipsat	Kenya
20	Ambrose Kiprop	Kenya
21	Billy Makumba	Kenya

## Annex 6: Seminars and Roundtable discussions announcement

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### SEMINARS AND ROUND TABLE DISCUSSION SESSIONS

19 – 30 NOVEMBER 2012

VENUE: KENYA SCHOOL OF MONETARY STUDIES, NAIROBI, KENYA

The African Network for the Economics of Learning, Innovation, and Competence Building Systems (**Africalics**) was launched in Dar es Salaam, Tanzania, in March, 2012. The network's objective is to promote the development of Science Technology and Innovation (STI) research capacity in Africa with strong links to users – including policy makers, academics and scholars, private sector and communities.

A series of seminars and round table discussions are planned to take place during the Africalics training workshop scheduled for 19 – 30 November 2012.

The seminars aim at addressing some questions that are at the core of African development while also providing participants with the most updated knowledge on innovation studies, with particular reference to current African issues. The seminars will be provided by world experts in the field of STI.

The roundtables intend to address “vanguard” issues in African innovation and development as well as policy; directly focusing on questions identified as critical to push the research agenda, but where limited research has been done. The idea behind these sessions is to familiarise participants with debating skills, create an interactive and inclusive environment for discussion, and provoke creative thinking on un-resolved issues in the African research and policy agenda.

### Seminars: Contemporary themes and challenges in innovation and development agenda

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#### Seminar 1: “Building linkages from commodity production in Africa”

Date: 22<sup>nd</sup> November from 10am – 1pm

Venue: Kenya School of Monetary Studies, Nairobi.

Facilitator: Prof. David Kaplan

*(University of Cape Town, South Africa)*

#### Seminar 2: “Global Innovation Networks: Are they relevant to African development?”

Date: 26<sup>th</sup> November from 10am – 1pm

Venue: Kenya School of Monetary Studies, Nairobi.

Facilitator: Prof. Helena Barnard

*(University of Pretoria, South Africa)*

**Seminar 3: “New Alternative Thinking in Economic development”**

Date: 27<sup>th</sup> November from 10am – 1pm  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: Prof. Keun Lee  
*(Seoul National University, South Korea)*

**Seminar 4: “The role of donor organisations in promoting innovation and competence building”**

Date: 27<sup>th</sup> November from 1pm – 3pm  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: Dr. Tomas Kjellqvist  
*(Royal Institute of Technology, Sweden)*

**Seminar 5: “Economics of technological catch-up and learning”**

Date: 28<sup>th</sup> November from 9am – 10am  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: Prof. Keun Lee  
*(Seoul National University, South Korea)*

**Seminar 6: “Economic Exclusion and Ecological Crises: Contemporary Challenges for Innovation Systems Research”**

Date: 28<sup>th</sup> November from 10.30am – 12.30pm  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: Prof. Rasigan Maharaj  
*Institute for Economic Research on Innovation (IERI), South Africa*

**Seminar 7: “Unifying system of Innovation and Productive Power Theories for Re-Designing: an integrated African structural transformation agenda & suggestions for inclusion in building the Africalics research programme”**

Date: 28<sup>th</sup> November from 2.45pm – 4.30pm  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: Prof. Mammo Muchie  
*(Tshwane University of Technology, South Africa)*

**Seminar 8: “Foundations of the management of innovation – firm level conceptual and empirical issues”**

Date: 29<sup>th</sup> November from 9am – 10.30am  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: **Prof. Gillian Marcelle**  
*(University of the Witwatersrand, South Africa)*

**Seminar 9: “Innovation Indicators”**

Date: 29<sup>th</sup> November from 10.30am – 1pm  
Venue: Kenya School of Monetary Studies, Nairobi.

Facilitator: Prof. Fred Gault  
(*UNU – MERIT, Netherlands*)

**Seminar 10: “Learning and capability building as strategies for innovation in firms and nations: perspectives and implications for Africa including a research agenda”**

Date: 30<sup>th</sup> November from 9am – 10.30am  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: **Prof. Gillian Marcelle**  
(*University of the Witwatersrand, South Africa*)

**Seminar 11: “User-led innovation/ innovation policy”**

Date: 30<sup>th</sup> November from 10.30am – 1pm  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: Prof. Fred Gault  
(*UNU – MERIT, Netherlands*)

**Seminar 12: “The political economy of Innovation and the challenges of development”**

Date: 30<sup>th</sup> November from 1pm – 2.30pm  
Venue: Kenya School of Monetary Studies, Nairobi.  
Facilitator: Prof. Rasigan Maharaj  
*Institute for Economic Research on Innovation (IERI), South Africa*

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## ROUND TABLE DISCUSSIONS

**ROUNDTABLE SESSION 1: “HOW CAN UNIVERSITY RESEARCH BETTER RESPOND TO THE REALITY AND NEEDS OF DEVELOPING COUNTRIES”?**

Date: 26<sup>th</sup> November from 3pm – 5pm  
Venue: Kenya School of Monetary Studies, Nairobi

Discussants:

*Prof. Helena Barnard, University of Pretoria, South Africa*  
*Prof Mammo Muchie, Tshwane University of Technology, South Africa*  
*Prof. Richard Mibey, Vice Chancellor, Moi University; Dr. Tomas Kjellqvist, Royal Institute of Technology, Sweden*

**ROUNDTABLE SESSION 2: “CAN INNOVATION SYSTEMS IMPROVE SOCIAL INCLUSION IN AFRICA”?**

Date: 28<sup>th</sup> November from 16:30pm – 18.00pm  
Venue: Kenya School of Monetary Studies, Nairobi

Discussants:

*Dr. Bitrina Diyamett, Executive Director, STIPRO & President, Africalics*

*Dr. Ellie Osir, IDRC, Nairobi*  
*Dr. Erika Kraemer-Mbula, Institute for Economic Research on Innovation (IERI), South Africa*  
*Dr. Ann Kingiri, African Centre for Technology Studies*  
*Dr. Watu Wamae, Rand Europe, UK*

This session is informed by some of the following aspects;

- How does innovation affect inequality in terms of income and access to learning internationally, regionally, ethnically, genderwise and socially?
- How does the degree of inequality in these dimensions affect the participation in and mode of innovation?
- How can innovation be organised so that it contributes to a reduction in inequality in these dimensions?
- Is there a potential for building industrial capacity through orienting innovation towards the needs of the poor?
- How to understand and manage the interfaces and processes that connect activities in the informal sector with activities in the formal sector?

**ROUNDTABLE SESSION 3: “ALIGNING NATIONAL AND GLOBAL PRIORITIES/CHALLENGES IN SCIENCE TECHNOLOGY & INNOVATION (STI) POLICY AND INNOVATION PRACTICE”**

Date: 29<sup>th</sup> November from 1pm – 3pm  
Venue: Kenya School of Monetary Studies, Nairobi

Discussants:

*Dr. Bitrina Diyamett, Executive Director, STIPRO & President, Africalics*  
*Dr. Ellie Osir, IDRC, Nairobi*  
*Dr. Watu Wamae, Rand Europe, UK*  
*Dr. Eric Mwangi, Ministry of Higher Education, Science & Technology, Kenya*  
*Prof. Rasigan Maharaj, Institute for Economic Research on Innovation (IERI), South Africa*  
*Prof. Rasmus Lema, Aalborg University, Denmark*  
*Prof. Fred Gault, UNU-MERIT, Netherlands*

For more information and confirmation of attendance, specifying the session/s, please contact Ms Faith Rono at African Centre for Technology Studies (ACTS) on 0710 607210, 0726 146029

and Email: [F.Rono@acts.or.ke](mailto:F.Rono@acts.or.ke)  
[STPI@acts.or.ke](mailto:STPI@acts.or.ke)  
[a.kingiri@acts.or.ke](mailto:a.kingiri@acts.or.ke)