



MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

NATIONAL COMMISSION FOR SCIENCE, TECHNOLOGY AND INNOVATION

CONCEPT FOR THE 3RD NATIONAL SCIENCE, TECHNOLOGY AND INNOVATION WEEK

DATES: 12th - 16th MAY 2014

VENUE: KENYATTA INTERNATIONAL CONFERENCE CENTRE (KICC), NAIROBI

Science Technology and Innovation (ST&I) are essential ingredients in the industrialization and sustainable development of a country. The Kenya Vision 2030 envisions a transformation into “a newly industrialized, middle income country, providing a high quality of life to all its citizens in a clean and secure environment”. Kenya's capacity to compete in the global market depends on the ability of its people to innovate and apply the relevant technology for industries’ growth and development. Given the current political goodwill, positive economic growth, legal and institutional reforms as well as increased regional drive for regional integration, Kenya is positioning itself as a major regional and international hub for emerging technologies to support a better quality of life and overall socio-economic development not only in the country but in the region. These efforts complement initiatives in peace building and addressing environmental threats as well as climate change.

The Ministry of Education, Science and Technology (MOEST), the National Commission for Science, Technology and Innovation (NACOSTI) and other partners have organized the 3rd National ST&I Week to be held on 12th to 16th May 2014. The main objective of the 3rd National ST&I Week will be to improve the understanding of the existing challenges and opportunities in Kenya’s industrial growth and development through applications of Science, Technology and Innovation.

The specific objectives will be:

- To create awareness on Kenya’s development industrial growth and development strategy;
- To appraise the public on Kenya’s achievements and breakthroughs in application of ST&I for industrial growth and development,
- To raise public awareness and popularize science, technology and innovation;
- To celebrate, recognize and reward outstanding Kenyan scientists and innovators

The event will comprise keynote speeches in plenary sessions, case studies, parallel symposia, roundtable discussions and exhibition of inventions and innovations based on thematic areas listed below. A Robotic Contest will also be held.

Participants will include policy makers, scholars, academicians, scientists, science writers, journalists, entrepreneurs and innovators from national and regional institutions such as Universities, Research Institutions, Technical, Vocational and Entrepreneurial Training (TVET) Institutions, International organizations and Development partners.

The theme for the 3rd National ST&I week is "**Science, Technology and Innovation as a Catalyst for Industrial Growth in Kenya**".

Subtheme 1: Opportunities for Green growth

Industrial growth and development through efficient use of resources and energy requires proper identification and application of a wide range of ST&I products for improved environmental performance, creation of new industries and new jobs. Industry development should be restructured and existing breakthrough technologies applied in a manner that will stimulate investments in technologies and infrastructures that help innovation and increased production and consumption of consumer goods and services. Green growth implies fostering economic growth and development while ensuring that the country's natural assets continue to provide the resources and environmental services for its population.

Presentations under this theme will set the scene for the conference in reviewing the latest perspectives on industrialization, green growth and the critical role of ST&I from the perspective of academic and industry experts. Presentations will provide a framework of addressing development challenges and look into pathways that deplete natural capital that leaves economic and livelihoods more vulnerable to environmental, social and economic risks. These will also include opportunities for SMART choices in development of process that will

allow Kenya to “leapfrog” to better and more efficient technologies; and the role of policies in creating conducive environment for green growth.

Subtheme 2: Capacity building in Entrepreneurship

Kenya needs a critical mass of skilled persons, including technologists, scientists and engineers, to serve as catalysts for industrial growth and development. The current emphasis on renewed economic growth and development coupled with the recent reforms in Kenya's Education sector and the current economic crisis has brought renewed impetus for entrepreneurship programmes. Unfortunately, certain groups such as the youth, women, senior citizens or retirees and the disabled are not adequately represented in the labor market and entrepreneurship. It is important that mainstream policies and programmes include appropriate objectives and actions to support an all-inclusive entrepreneurship training for industrial growth and development.

Presentations under this sub theme will focus on identification of challenges and opportunities in ST&I institutions including gaps, new approaches and strategies for encouraging innovation, development of new and profitable business models, novel approaches to financing and underlying innovation capacity in our ST&I institutions. The expected output is to create awareness and build a network of policy makers and practitioners in the field of inclusive entrepreneurship and promotion of entrepreneurial training.

Subtheme 3: Intellectual Property Rights for Commercialization of Research Products

Intellectual Property Rights (IPR) is a major catalyst for innovative and creative activity necessary for trade negotiations and global competitiveness. A better understanding of the effect of IPR on innovation will allow policy makers to design more optimal national IPR regimes. Use of IPR in the economy apply in a wide spectrum of industrial activities including agribusiness, cottage industries, *jua-kali*. It also applies in the high-tech industries that manufacturer sports' goods, toys and ICT based applications, which Kenya has the capability to produce. Indeed, patents and other IPR for innovative institutions have become extremely important assets especially for SMEs, research institutions and universities because they often open the doors to capital and business partners. In order to remain competitive in the global economy, Kenya must develop and enforce appropriate mechanisms to support IPR regimes necessary for the development and use of new technology and innovations.

Papers presented under this theme tackle the fundamental question of the extent to which IPR-related industries contribute to jobs creation, GDP and trade in Kenya. Case studies on application of IPR registrations and their impact on selected IPR-intensive industries will be presented. Such areas include the manufacture of power-driven hand tools; the manufacture of basic pharmaceutical products; the manufacture of watches and clocks; book publishing; operation of dairies and cheese making; services activities related to financial services and insurance, electric lighting and domestic appliances, satellite telecommunications, and extraction of oil and gas, among others.

Subtheme 4: Unlocking Barriers in Science Communication

Scientists have a professional responsibility to promote the public's understanding of science. However, public engagement is still a daunting task for majority of researchers. Some of the barriers to science communication include limited training in communications, lack of reward system for engagements in public debates for policy decisions making processes, and inadequate funding to ensure effective communication of science to end users is as integral part of the whole project. The reward system in majority of academic and research institutions is heavily dependent on the number of publications and grants hence the adage "publish or perish". Institutional changes should be effected to recognize and reward researchers and academicians who engage the public to ensure that their outreach work forms part of their evaluations. Furthermore, training in science communication should form part of leadership programs for scientists and academicians who should be given time to develop relationships with the media.

Presentations under this theme will focus on how researchers can make contribution to policy and decisions making through participation in debates and writing. Case studies and tips on best practices for adapting to different audiences including media will be presented.

Individuals and institutions are invited to submit their applications for paper presentations and exhibitions on any of the subthemes listed above. ***The best paper presentations and exhibitions will be selected for recognition and award of various prizes.***

GUIDELINES FOR PAPER PRESENTERS

Participants for paper presentations should send an abstract of not more than 300 words in English, typed in font type Times New Roman, font size 12 by 31st January 2014. This should be sent as a soft copy in MS-Word to conference2014@nacosti.go.ke. The abstract should comprise the following: a title, an outline of aims, methodology, results, discussions and conclusions. It must also contain author (s)' name (s) and affiliation, mailing address, e-mail address and mobile contacts. The names of authors must be identified and marched with

their institutions using Arabic numbers placed after the last initial. The name of the corresponding author must have an asterisk (*) placed in front of the name. The appropriate sub-theme must also be indicated.

Following successful review and acceptance of an abstract, participants will be requested to submit full papers for presentation and publication in conference proceedings.

All research papers must be written in English and typed on A4 paper using MS Word, Times New Roman, font size 12, 1.5 line spacing, 1 inch top and bottom margins, 1.5 inches left margin and 1 inch right margin. The cover page should include: Research Title; Name of Author(s); Institution's name and postal address, fax, telephone number and email address of the presenter.

The body of the research papers must include: Abstract, Introduction, Materials and Methods, Results, Discussions, Conclusions and Recommendations, References and Acknowledgements. All papers should be submitted in soft copy and should not be more than five (5) pages (inclusive of figures and tables) to the conference2014@nacosti.go.ke.

Important: Authors who submit their papers without strict adherence to the specified format will have their papers rejected and no notification shall ensue.

GUIDELINES FOR EXHIBITORS

Facilities and space for organizations/institutions and individuals to exhibit products and or services and disseminate information relevant to the conference sub-themes will also be provided at the conference venue. Information in the application forms must indicate the type and number of products or services (if more than one), number of exhibitors and amount of space required should be sent to conference2014@nacosti.go.ke. by 15th March 2014.

IMPORTANT DATES:

- 31st January, 2014 - Deadline for submission of abstract and briefs of innovations
- 14th February, 2014 - Notification of acceptance of abstract and innovation briefs and call for full papers/innovation details
- 28th February 2014 - Deadline for submission of full papers/innovations
- 15th March 2014 - Notification of acceptance of full papers/innovations
- 15th March 2014 - Deadline for exhibition registration

REGISTRATION FEES

All payments shall be made direct to the Kenya Commercial Bank (KCB) (***Account name and number: NACOSTI, 1104162547, Kipande House, Nairobi***) and acknowledged on receipt of bank slip as follows:

Category of Participants		Registration fee	
		KES	US\$
Paper presenters	Postgraduate students	1,500	20
	Researchers and postdoctoral students	3,000	35
	Non East African	5,000	60
Exhibitors (charges per booth measuring 3 x3m ²)	Individuals	5,000	60
	Institutions	10,000	120
	Non East African	20,000	235

Important: The above fees apply to participants who will register by 30th March 2014. Late registration will attract a 50% penalty for each category.

EXPECTED OUTPUT OF THE 3RD NATIONAL ST&I WEEK

The expected output includes documentation/inventory of innovations and showcasing of the main trends towards industrial growth and development, the challenges, lessons learnt and opportunities for future economic growth, sustainability and policy development. For more information and clarification contact:

Secretary / CEO
National Commission for Science, Technology and Innovation
P.O. Box 30623-00100, NAIROBI
Tel: 020 224 1349 / 020 221 3471 (landline) OR
0713 788 787 / 0735 404 245 (mobile) Email:
conference2014@nacosti.go.ke
Website: www.nacosti.go.ke or www.scienceandtechnology.go.ke