



**National Commission for Science,
Technology and Innovation
(NACOSTI)**



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STIR JOURNAL – Special Edition

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National Commission for Science, Technology and Innovation

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EDITORIAL

“Science and Technology for Prosperity”



One of the main priorities of the Government towards the attainment of Kenya Vision 2030 is the realization of Science, Technology and Innovation. The National Commission for Science, Technology and Innovation (NACOSTI) newsletter is a brief summary of the activities that the commission engages on a day to day basis including workshops, conferences and meetings.

National Commission for Science, Technology and Innovation (NACOSTI) is established under the Science Technology and Innovation Act, 2013. The mandate of NACOSTI is to regulate and assure quality in the research, science, and technology and innovation sector and advise the Government in matters related thereto. The Commission Regulates, Coordinates, Advises and promotes Science, Technology, Innovation and Research activities in the country.

The Big Four Agenda by the Government of Kenya focuses on manufacturing, food security, affordable health care and housing. The attainment of the big four Agenda is intertwined with the accomplishments of the functions of NACOSTI which include: Develop priorities in scientific, technological and innovation activities in Kenya, Advise the national and county governments on the science, technology and innovation policy, Lead inter-agency efforts to implement responsive policies and budgets, in collaboration with organizations involved in research, science and technology, Ensure co-ordination and co-operation between the various organizations involved in research, science and technology development, Accredite

research institutions and approve all scientific research in Kenya, Assure relevance and quality of research programmes in research institutions, Advise on science education and innovation at both basic and advanced levels and Promote the adoption and application of scientific knowledge and information.

I wish you happy reading as you interact with this issue of the NACOSTI *STIR Journal*.

Mr. Gideon Kirui

Journal Committee Chairman

MESSAGE FROM THE CHAIRMAN

“Science and Technology for Prosperity”



On behalf of the Board, I thank management, staff of NACOSTI and our stakeholders for having walked with us in the STI Journey. STI is a key enabler of accelerated national development and will continue to be so as witnessed during the COVID 19 pandemic.

The Board of NACOSTI was appointed on the 6th December 2017, and it's almost three (3) years since its appointment. During its tenure, the Board has achieved a number of key milestones which include successful implementation of its Performance Targets, and annual undertaking of the Board Evaluation over the three (3) year period. The Board also managed a successful transition of the Technical Staff from the former National Council for Science and Technology (NCST) to NACOSTI and more so to the NACOSTI Umbrella Pension Scheme. Further, staff recruitment was undertaken in line with approved HR instruments.

A major milestone of the Board was the payment of pending bills emanating from the construction of the NACOSTI building. Payment has been completed for actual works done as advised by the Project Managers from the Ministry of Public Works and Infrastructure. During this undertaking, the Board successfully negotiated with six (6) sub-contractors for payment for works done wherein the sub-contractors forfeited the interests and associated claims.

During its tenure, the Board has provided oversight for the preparation of key STI policy and framework instruments that include the STI Policy and Implementation Framework, STI Indicators,

STI for SDGs Roadmap, STIR Network (STIRN), amongst others. Further, the Board has ensured the successful commissioning of an ERP System, the Research Information Management System (RIMS), and piloting of the Kenya National Research Information System (KENRIS), which facilitates the registration of research institutions, registration of researchers and accreditation of research institutions and Institutional Ethics Review Committees (IERC).

Prof. Tom Peter Migun Ogada, PhD

Chairman

Board of National Commission for Science, Technology and Innovation (NACOSTI)

REMARKS FROM THE DIRECTOR GENERAL/CEO

“Science and Technology for Prosperity”



I take this opportunity to welcome you to read the Special Edition of the STIR Journal, a publication of the National Commission for Science, Technology and Innovation (NACOSTI). STIR Journal captures the latest news and featured articles from the Science, Technology and Innovation (STI) sector, and is therefore the voice of stakeholders in the STI Ecosystem as communicated by the STI Regulator, NACOSTI.

NACOSTI is established under the Science, Technology and Innovation Act, 2013 (Rev. 2014) with a unique mandate of regulating and assuring quality in the research, science, technology and innovation sector, and advising the Government in matters related thereto. In so doing, the Commission shall Regulate, Coordinate, Advise and Promote Science, Technology, Innovation and Research activities in the country.

Among other functions of NACOSTI include; developing priorities in scientific, technological and innovation activities in Kenya, Registering and Accrediting Research Institutions, Licensing of Research and assuring relevance and quality of research programmes in research institutions, coordinating and evaluating activities relating to scientific research and technology development, annually reviewing the progress in scientific systems, and promoting the adoption and application of scientific and technological knowledge in attaining national development.

Further, the Science, Technology and Innovation (STI), Legal Notice No. 108 (Research Licensing) Regulations, 2014 obligates all persons intending to undertake scientific research in Kenya to obtain a license in accordance with the Act. In this regard, we have made this process easy and convenient for you all by making it available online.

I trust that you will enjoy interacting with the information presented herein. Feel free to contact us through our telephone numbers, email and all our social media platforms.

Prof. Walter O. Oyawa, PhD

Director General/CEO

National Commission for Science, Technology and Innovation (NACOSTI)



NACOSTI Mandate, Vision, Mission, Core values, & Functions

Mandate

The objective of the Commission shall be to regulate and assure quality in the science, technology and innovation sector and advise the Government in matters related thereto.

Vision

Accelerate the Transformation of Kenya as a knowledge-based economy.

Mission

To facilitate quality in the research, science, technology and innovation sector through regulation, promotion and provision of advisory services.

Core Values

The Commission upholds Integrity, Customer Focus, Professionalism, Teamwork and Leadership in the discharge of its mandate.

Functions

- a) Develop, in consultation with stakeholders, the priorities in scientific, technological and innovation activities in Kenya in relation to the economic and social policies of the Government, and the country's international commitments.
- b) Lead inter-agency efforts to implement sound policies and budgets, working in collaboration with the county governments, and organizations involved in science and technology and innovation within Kenya and outside Kenya.
- c) Advise the national and county governments on the science, technology and innovation policy, including general planning and assessment of the necessary financial resources.
- d) Liaise with the National Innovation Agency and the National Research Fund to ensure funding and implementation of prioritized research programmes.
- e) Ensure co-ordination and co-operation between the various agencies involved in science, technology and innovation.
- f) Accredite research institutes and approve all Scientific research in Kenya.
- g) assure relevance and quality of science, technology and innovation programmers in research institutes.
- h) Advise on science education and innovation at both basic and advanced levels.
- i) In consultation with the National Research Fund Trustees, sponsor national scientific and academic conferences it considers appropriate.
- j) Advise the Government on policies and any issue relating to scientific research systems.
- k) Promote increased awareness, knowledge and information of research system;
- l) Co-ordinate, monitor and evaluate, as appropriate, activities relating to scientific research and technology development.
- m) Promote and encourage private sector involvement in scientific research and innovation and development.
- n) Annually, review the progress in scientific research systems and submit a report of its findings and recommendations to the Cabinet Secretary.
- o) Promote the adoption and application of scientific and technological knowledge and information necessary in attaining national development goals.
- p) Develop and enforce codes, guidelines, and regulations in accordance with the policy determined under this Act for the governance, management and maintenance of standards and quality in research systems.
- q) Undertake, or cause to be undertaken, regular inspections, monitoring and evaluation of research institutions to ensure compliance with set standards and guidelines.

NACOSTI Board Members



**Prof. Tom P.M
Ogada, Phd
Chairman**

Prof. Tom Peter Migun Ogada, is the Chairman of the Board of NACOSTI. He holds a Doctor of Philosophy degree in Chemical Engineering from Hamburg, Germany, an MBA in Strategic Management from Moi University and MSc in Mechanical Engineering from BPI, Minsk, USSR and is a member to Institute of Engineers of Kenya.

Prof. Ogada has over 30 years' experience in Science, Technology and Innovation of which 15 years he has obtained at senior management and leadership positions. He is currently the Executive Director of African Centre for Technology Studies (ACTS) and a former Executive Committee Member (Minister) of Trade, Industrialization, Investment and Cooperatives in Homa Bay County. He served as Managing Director, T&P Innovation and Technology Management Services in the period 2011 – 2013 and as a Managing Director at Kenya Industrial Research and Development Institute (KIRDI) in the period 2006 – 2009. He has served as an acting director Moi University Holdings limited for 3 years and as an Advisor on Technology Transfer, British Council.

Prof. Ogada has participated in the formulation of several policies including Vision 2030, Industrialization Policy, Leather Development Policy, Industrial Cluster Strategy, Incubation Policy and Science, Technology and Innovation Policy. He has also prepared several books and tools on Intellectual Property.



**Amb. Simon
Nabukwesi,**

Principal Secretary,
State Dept for
University
Education &
Research,
Member

Amb. Simon Nabukwesi is the Principal Secretary, State Department for University Education and Research. He holds a B.Ed., M. Ed. in Education Planning and Management and MA in International Project Management. He is a PhD Candidate in International Project Management. He also holds a Diploma Level training in Institutional Management from Hiroshima University, Japan and a Pre-university Training at the National Youth Service (1986).

Amb. Nabukwesi has also served as Kenya's High Commissioner to Canada and Ambassador Plenipotentiary and Extra-ordinary to Cuba. His eleven (11) years of service as a diplomat included being the Director of Foreign Service

Institute which he worked to transform into the Foreign Service Academy for training Junior Diplomats, Middle level Diplomats, Senior Diplomats and eight (8) Cohorts of Ambassadors whom he took through induction courses.



Dr. Julius Muia,
Principal
Secretary for
National Treasury,
Member

Dr. Julius Muia is the Principal Secretary at The National Treasury. Prior to this, he was the Principal Secretary at the State Department for Planning - The National Treasury and Planning. Before his appointment as PS Planning, he was the Director General, Vision 2030 Delivery Secretariat which operated under the Office of the President, Republic of Kenya to facilitate the implementation

of Vision 2030. This is Kenya's long-term policy framework that is premised on making Kenya a globally competitive, rapidly industrializing and upper middle income economy by 2030.

Between April 2008 and October 2016, Dr. Muia served as the Secretary, National Economic and Social Council, Office of the President. This is a top advisory government think tank whose flagship project was formulating Vision 2030.

An alumnus of the University of Nairobi's School of Business, Dr Julius Muia graduated with a First Class Honours Degree in Accounting; Masters Degree and PhD in Finance from the same university. His professional qualifications include: Certified Public Accountant (CPA-K); Certified Public Secretary (CPS-K), Associate Kenya Institute of Bankers; Associate Chartered Institute of Arbitrators; and Certified Coach.

Dr. Muia has over 25 years experience in leadership in the private sector in Kenya and UK. He started his career as an auditor with PricewaterhouseCoopers in mid 1980's, and later worked as Head of Finance and Company Secretary in the hotel, manufacturing and banking sector. His other engagements include an adjunct faculty at Strathmore Business School; adviser on strategy and trainer on leadership.



**Prof. Francis
Wamakima
Muregi, PhD
Member**

Prof. Francis Wamakima Muregi was appointed a member of the Board of NACOSTI on 6th December, 2017. He is a PhD holder in medical sciences from Hamamatsu University School of Medicine, a Master of Science, Biochemistry (Biotechnology Option) and BSc. Biochemistry/Chemistry from Kenyatta University.

Prof. Muregi has worked at Kenya Medical Research Institute for more than 10 years. He is currently the Director for Research and Development at Mount Kenya University. He

is also serving as a member of the Social and Human Sciences Programme and Expert Committee of Kenya National Commission for UNESCO (KNATCOM).



**Ms. Rachel
Shibalira,
Member**

Ms. Rachel Shibalira was appointed a member of the Board on 6th December, 2017. Ms. Shibalira holds Msc in Environmental Planning and Management from Kenyatta University, Bachelor of Law from BabaSaheb Ambedkar University and Diploma in Law from Kenya School Law.

Ms. Shibalira is a member of Law Society of Kenya and also International Commission of Jurists. She has represented the Government of Kenya in negotiating international conventions and protocols in the area of environment. She has also worked with several countries in the African region helping them define policies and laws on issues of Science and Technology. She has served nationally as a Chairperson of the Biosafety Appeals Board.



Dr. Nicholas Letting, PhD,
Member

Dr. Nicholas Letting' was appointed a member of the Board on 6th December, 2017. Dr. Letting holds a Doctor of Philosophy in Business Administration, MBA and B.Com from University of Nairobi. He also holds two professional qualifications from KASNEB; Certified Public Accountant of Kenya and Certified Public Secretary of Kenya and a member of Institute of Directors, Kenya Institute of Management and Institute of Human Resource Management and Institute of Certified Investments and Financial Analysts.

Dr. Letting has extensive experience in senior management positions in leading organizations in the country. He is currently the Chief Executive Officer of Kenya Accountants and Secretaries National Examinations Board (KASNEB).



Dr. Jemimah Onsare, PhD,
Member

Dr. Jemimah Onsare is a member of the NACOSTI Board by virtue of being the Ag. Chief Executive Officer of National Research Fund (NRF). She has experience in resource mobilization and management of Research Grants and has participated in various programmes within the ST&I sector both at National as well as International level.

Dr. Onsare is experienced in Microbiological Research (Antimicrobials) and has published research articles in international Journals of repute. She holds a PhD (Applied Microbiology – Antimicrobials) and has undertaken an International training Programme Sponsored

by SIDA on putting ideas to work, strategies for innovation and led sustainable growth.



Dr. Tonny K. Omwansa, PhD,
Member

Dr. Tonny K. Omwansa is a member of the Board by virtue of being the Chief Executive Officer of Kenya National Innovation Agency (KENIA). He is the co-author of “Money, Real Quick: Kenya’s disruptive mobile money innovation”. He holds a PhD in Information Systems in which he researched on the adoption of mobile financial services at the base of the pyramid in Kenya.

Besides consultancy in technology issues, he has conducted extensive research in mobile transactions in Africa and published various reports including use of airtime transfers, mobile banking, virtual currencies as well as regulation of mobile transactions. His research interests are in the design, adoption and impact of low-cost technologies in developing countries.

His various research assignments have been commissioned by organizations like the GSMA, Bill and Melinda Gates foundation, Rockefeller Foundation and Economic Commission of Africa. He is a recipient of the prestigious Bellagio Fellowship from the Rockefeller Foundation where he worked on the book on mobile money, published in 2012.



Prof. Wallter O. Oyawa is the Director General of the National Commission for Science, Technology & Innovation (NACOSTI). He is a Professor of Civil Engineering, a holder of a PhD in Civil Engineering, and a holder of Executive MBA. He is a Registered Professional Engineer, a Lead Expert-NEMA and a reviewer of several international journals.

Prof. Wallter O. Oyawa, PhD,
Member/Secretary

In addition to his current position as Director General of NACOSTI, Prof. Oyawa has served in various senior leadership/management positions including having been the Principal/CEO of Multimedia University College, Deputy Commission Secretary at the Commission for University Education (CUE), pioneering Ag. Principal of the College of Engineering & Technology at JKUAT, Director of a Research Centre-SMARTEC at JKUAT, Chairman of the Department of Civil Engineering at JKUAT, Board member of several boards, among others. He has vast experience in research/scholarly work, as evidenced by; extensive publications in peer reviewed journals, several awards and research grants, keynote lectures and conference papers, and supervision of numerous postgraduate students. His research interest is in the area of sustainable construction materials and technologies.

NACOSTI Top Management



Prof. Wallter O. Oyawa
Director General/
CEO



Dr. Stephen Karimi
Director, Research,
Accreditation &
Quality Assurance



Dr. Roy B. Mugiira
Director, Research,
Accreditation &
Quality Assurance



Mr. Gideon Kirui
Ag. Director,
Corporate Services

Tribute to NACOSTI Partners and Stakeholders

NACOSTI Board and Management takes this opportunity to thank all our stakeholders, partners and collaborators who have been very supportive and insightful. The stakeholders have provided a mechanism for self-reflection on our mandate, as well as for checks and balances. We look forward to a cordial working relationship even as we jointly strive to implement the STI Act. The list of stakeholders is long, some of whom are listed below, among others.



THE BIOLOGICAL WEAPONS
CONVENTION (BWC)



THE COMPREHENSIVE
NUCLEAR-TEST-BAN TREATY
ORGANIZATION (CTBTO)



THE AFRICAN REGIONAL
COOPERATIVE AGREEMENT
FOR RESEARCH,
DEVELOPMENT AND TRAINING
RELATED TO NUCLEAR
SCIENCE AND TECHNOLOGY
(AFRA)



THE INTERNATIONAL CENTRE
FOR GENETIC ENGINEERING
AND BIOTECHNOLOGY (ICGEB)



THE EAST AFRICAN
SCIENCE AND TECHNOLOGY
COMMISSION (EASTECO)



NATIONAL RESEARCH FUND
KENYA (NRF)



KENYA NATIONAL INNOVATION
AGENCY (KENIA)



COMMISSION FOR UNIVERSITY
EDUCATION



THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP



NATIONAL BIOSAFETY AUTHORITY
Championing for a Biosafe Nation



NACOSTI and Partners organize Symposium on “STI Sector Response to COVID 19 Pandemic, and Infusion in post-COVID Recovery Strategies”

Recognizing the importance of coordinated approaches in combating the deadly Coronavirus disease, and the multiple players in the science, technology Innovation (STI) sector, **the National Commission for Science, Technology and Innovation (NACOSTI)** has organized a 3-day Symposium virtually, as **from 9th to 11th November, 2020** both virtually and physically (as coordinated during NACOSTI Retreat at Mombasa). The theme of the Symposium is “**STI Response to Covid-19 Pandemic, and Infusion into Post-Covid Recovery Strategies**”. The Symposium will provide a platform for different players in the Science, Technology and Innovation (STI) sector including universities, research institutions, Ministries, Departments and Agencies (MDAs), International agencies, private sector and development partners to share experiences and lessons in their respective institutional strategies to COVID-19 pandemic.

Key Partners

Key partners and institutions in the STI ecosystem have confirmed their participation in the Symposium, some of whom will be presenting Keynote and Lead Papers. The Institutions presenting Keynote Lectures and Lead Papers include;

1. Ministry of Education
2. National Commission for Science, Technology & Innovation (NACOSTI)
3. The World bank
4. African Scientific and Research Innovation Council (ASRIC)

5. Universiti Malaysia Sarawak, UNIMAS, Malaysia
6. Kenya National Academy of Sciences (KNAS)
7. African Technology Policy Studies Network (ATPS)
8. National Research Fund (NRF)
9. Kenya National Innovation Agency (KENIA)
10. Commission for University Education (CUE)
11. Jaramogi Oginga Odinga University of Science and Technology (JOOUST)
12. UNESCO
13. Konza Technopolis Development Authority (KoTDA)
14. Kenya National Qualification Authority (KNQA)
15. Kenya Industrial Property Institute (KIPI)

Keynote Speakers



Keynote and Lead Presentations

Keynote Presentations

- i) The need for enhanced STEM Education and Diversification in a Disruptive Globalized World
- ii) Ongoing Deep Dive Reforms in the Higher Education Sector in Pandemic-Affected Context
- iii) STI Priorities and Regulatory Framework

Lead Presentations

- i) STI interventions and Roadmap on COVID-19 pandemic: African Context
- ii) Afro-centric Indigenous Knowledge in the Prevention of Emerging Infectious Diseases
- iii) Frontier Technologies in Combating Disasters, and Building Resilience
- iv) Impact of STI in the Mitigation of Covid 19 Pandemic
- v) Green Pavement technology through contactless fabrication in mitigating COVID19 Pandemic”
- vi) Resource Mobilization for R&D: Status and Need for Enhanced Budgetary allocation
- vii) Ethical Issues in Research, Science, Technology and Innovation in a captive world

- viii) Technology Development and Commercialization: Kenya's Pathway to a developed economy
- ix) University Reforms in the Wake of Covid 19 pandemic
- x) Impact of JOOUST ACE II on Higher Education Landscape
- xi) Interdisciplinary Approaches in STEM Education in preparation for a rapidly changing world
- xii) SMART City Ecosystem Framework and Model for Kenya
- xiii) Realignment of National Qualifications Framework in Kenya
- xiv) Intellectual Property Management: Kenya status report
- xv) Intellectual Property Policy Guidelines for Academic and Research Institutions in Kenya
- xvi) Nurturing Bioeconomy in the Eastern African Region

NACOSTI HOTEL AND CONFERENCE FACILITY TO OPEN SOON

NACOSTI Conference and Hostel facility was constructed as part of the NACOSTI office Complex and headquarters. The facility boasts of a modern kitchen, dining hall, conference halls, seminar rooms and forty-eight self-contained rooms. It also has a gym and sauna to relax your muscles after a long day's work and to prepare your mind and body for the next day. The final touches on furnishing are being done, and the facility shall be up and running very soon. It will be open to all members of the public, especially institutions looking for a quiet and serene ambience, away from the traffic and bustle of towns, to conduct their meetings, trainings and retreats.

NACOSTI Conference Facility's location is strategic in view of its proximity to Waiyaki Way, which is being upgraded to a superhighway. In addition, the facility is situated within the neighborhood of several government institutions and agencies for instance, Kenya Sugar Board, Directorate of Veterinary Services Headquarters, National Biosafety Authority and the upcoming Kenya Dairy Board. It is situated approximately 2 kilometers off Waiyaki Way has a tar surfaced access road. The cool serene neighborhood further augments the comfort of our clients.



UNESCO REGIONAL OFFICE FOR EASTERN AFRICA PAYS A COURTESY CALL TO THE DIRECTOR GENERAL, NACOSTI

The UNESCO Regional Office for Eastern Africa on Thursday 13th August, 2020 made a courtesy visit to the Director General, NACOSTI to discuss possible areas of collaboration between the two institutions. The team from UNESCO comprised of Dr. JayaKumar Ramasamy, a Senior Programme Specialist and Head of the Natural Sciences Sector and Dr. Samuel Partey Science Policy and Capacity Building specialist. NACOSTI was represented by the Director General, Prof. Walter O. Oyawa, Ms. Margaret Muthee, Head Humanities and Social Sciences Schedule and Ms. Rael Adhiambo from the Earth and Space Sciences Schedule.



Photo: UNESCO Regional Office for Eastern Africa courtesy call to the Director, General NACOSTI




The Director General highlighted briefly on NACOSTI's the mandate as outlined in the Science, Technology and Innovation (STI) Act. These mandates can be grouped into 4 broad areas of policy advisory, regulation, coordination and promotion of STI. The key focus for the implementation during the current financial year include:

- i) Coordination of implementation of the National Research Priorities through formation of various organs to oversee the process of implementation, monitoring progress and reporting;
- ii) Establishment of research consortia and STI network with several focal points to coordinate the efforts of different players in the STI sector;
- iii) Finalization of the STI policy and development of implementation framework;

- iv) Development of STI for SDGs Roadmap;
- v) UNESCO STI Programmes for alignment to NACOSTI Programmes; and vi. Promotion of STEM education from the lower level to higher levels of education.

The Natural Science Sector at the UNESCO Nairobi Office designs and implements its activities in relation to the International Science Programmes (ISP) of UNESCO: International Hydrological Programme (IHP); Man and the Biosphere Programme (MAB); International Geoscience and Geoparks Programme (IGGP); and International Basic Sciences Programme (IBSP). For activities pertaining to IHP; Ecological and Earth Sciences; and Disaster Risk Reduction, this office has a coordination role for all sub-Saharan African countries with other Regional Offices. The Science Policy and Capacity Building programme caters for its regional countries in addition to handling the coordination of the African Network of Scientific and Institutional



Institutions (ANSTI). The regional office is currently undertaking several programmes which provide opportunities for collaboration with NACOSTI. These include:

- i) Development of curriculum to train small-scale artisanal miners to equip them with knowledge in geological sciences. The project will be implemented in partnership with Jomo Kenyatta University of Agriculture and Technology (JKUAT), African Development Bank (AFDB), UK University Council and other partners from Uganda. It will cover the East African region;
- ii) Organization of a certified training on Artificial Intelligence (AI) targeting university lecturers from JKUAT, Kenyatta University and Masinde Muliro University. The programme is being implemented in collaboration with Huawei;
- iii) Support of research in areas such as water resources and security and disaster risk reduction (DRR) to provide evidence for interventions to improve these critical sectors;
- iv) Design of materials for edutainment to enable children understand complex issues such as climate change, DRR and water security; and
- v) Undertaking baseline studies in several African countries to assess their STI sectors to provide evidence for the design of interventions to advance STI.

From the discussions, the following areas of collaboration between the two institutions were identified:

- Development of an AI policy with possible support from Huawei; and
- Identification of potential universities to be designated as UNESCO Chairs in collaboration with the Kenya National Commission for UNESCO.

NACOSTI AND BRITISH HIGH COMMISSION MEET TO DISCUSS PARTNERSHIP



NACOSTI held a virtual bilateral meeting to discuss its existing partnership with the UK, under the framework of the UK-Kenya Oversight Board and the Newton – Utafiti programme, which commenced implementation in 2016.



Prof. Peter Migun Ogada
Chairperson Nacosti



**Prof. Wallter O. Oyawa,
PhD**
DG/CEO-NACOSTI



Dr. Roy B. Mugiira
Director-NACOSTI



Ms. Margaret Muthee
Chief Analyst

The meeting brought together Prof. Tom P.M. Ogada - Chair of NACOSTI Board, Prof. Walter Oyawa – Director General, NACOSTI, Dr. Roy Mugiira – Director, Directorate of Scheduled Sciences, NACOSTI, Dr. Eunice Muthengi – Acting Head, DFID East Africa Research Hub, Ms. Serah Nderitu – Science and Innovation Officer and Newton Fund Manager, Mr. Nicholas Mwangi – Policy and Programme Manager, East Africa Research Hub and Ms. Margaret Muthee – Chief Analyst, Humanities and Social Sciences, NACOSTI.



**Eunice Muthengi - Acting
Head DFID East Africa
Research Hub**



Nicholas Mwangi- BHC



Sarah Nderitu- BHC

The UK investment in Kenya's STI sector is significantly high compared to other partner countries. Between 2014 and 2019, it was approximately £164 million. The funding landscape is however complex with efforts to bring coherence and to align investments, to Kenya's development priorities, on-going, beginning with formation of the UK – Kenya Oversight Board on Research, Science, Technology and Innovation. The Newton Fund, which was launched in July 2016 has focused on 7 priority areas namely; food security; health; sustainable and renewable energy; environment and climate change; economic transition skills and jobs through manufacturing for SMEs governance, conflict resolution and security; and crosscutting issues – capacity building, big data, innovation and entrepreneurship. At the request of the UK-Kenya Oversight Board, the British High Commission and the Ministry of Education have developed a joint action plan to guide implementation of Covid-19 ST&I activities. As part of this action plan, NACOSTI will collaborate with other institutions in the ST&I sector and UK Delivery Partners. NACOSTI through a consultative process developed the national research priorities in response to demands by researchers for the country to

provide direction in research that would inform policy formulation for the achievement of the national development agenda. The priorities were formed taking into consideration the prevailing socioeconomic policies and relevant national, continental and global development blueprints and goals. They are broad and cover various aspects including pandemics such as COVID-19. However, there is need to review and incorporate Digital Economy due to its profound role in supporting post COVID-19 resilience and recovery.

- i) Implementation of the NRPs through establishment and operationalization of the organs identified to steer the country's research and development agenda
- ii) Development of an implementation plan for the ST&I policy to facilitate linkage to the NRPs
- iii) Development of the STI Roadmap to support achievement of SDGs – the process would greatly benefit from lessons learnt in development of UK's ST&I Roadmap which was recently finalized and launched

- iv) Harmonize funding programmes by different development partners in the STI sector through formation of a coordination group for the development partners – this will also facilitate mapping the various development partners and the areas they fund.

NACOSTI will continue its engagement with the British High Commission and agree on specific areas of focus on and modalities of operation – to clearly define the approach for implementing the proposed areas.

NACOSTI BOARD APPROVES KEY STI DOCUMENTS

During its 21st Full Board meeting, the Board of NACOSTI approved several important STI Framework and related documents that included;

- i) Updated STI Policy
- ii) STI Policy Implementation Framework
- iii) STI Indicators
- iv) STI for SDGs Roadmap
- v) STI Sector COVID 19 pandemic Response Strategy
- vi) Concept paper on Science, Technology, Innovation, and Research Network (STIRN)

These documents have been forwarded to stakeholders for comments, suggestions, and recommendations.



NACOSTI WELCOMES THE NEW DIRECTOR GENERAL, AND BIDS FAREWELL TO OUTGOING DIRECTOR GENERAL

On the 4th May 2020, the Commission Chairman, Prof. Tom Ogada announced the appointment of a new Director General, Prof. Walter O. Oyawa, effective 1st May 2020. The appointment of Prof. W. Oyawa as the Director General is a culmination of a competitive recruitment process that commenced way back with the advertisement for the position on January 21st, 2020. Prof. Walter O. Oyawa assumed his duties effective 1st of May 2020 for a period of five years. Prof. Oyawa shall be responsible for the day-to-day management of the affairs of the commission.



L-R; Prof. Walter Oyawa - New NACOSTI Director General, Prof. Peter Migun Ogada - NACOSTI Board Chairman, and Dr. Moses Rugutt - Outgoing Director General

In his press release, the Commission's Chairman - Prof. Peter Migun Ogada stated that; "we are very fortunate to have someone of Prof. Oyawa's calibre and experience take up the position to lead the commission. This is a critical moment, and we will benefit immensely from renewed leadership to successfully implement our strategy and take advantage of the opportunities within the Science, Technology and Innovation ecosystem."

He took over from Dr. Moses K. Rugutt, PhD, OGW whose term had come to an end. Dr. Rugutt has steered the commission through its maturity into a well-respected organization that has taken the lead in Science and Technology. NACOSTI fraternity bid farewell to Dr.

Rugutt during a farewell gathering at NACOSTI building and wished him success in his future endeavours



Prof. Walter Oyawa - New NACOSTI Director General, chats with, and Dr. Moses Rugutt - Outgoing Director General during a farewell get-together

NACOSTI STAFF APPOINTED AS A MEMBER OF EASTECO GOVERNING BOARD

Deputy Director and Head of Research Licensing, Mr. Godfrey Pessah Kalerwa has been appointed to serve on the EASTECO Governing Board. Following Article 8 of the Protocol on the establishment of the East African Science and Technology Commission (EASTECO)

and the official communication from the Ministry of Foreign Affairs and International Cooperation (Ref: No.2922/09.01/EAC/20): Mr. Kalerwa will serve the EASTECO Governing Board as a Scientist nominated by NACOSTI for a tenure of three(3) years.



Deputy Director and Head of Research Licensing,

Mr. Godfrey Pessah Kalerwa

Mr. Kalerwa, is an expert on matters of research, science, technology and innovation and has represented the country and NACOSTI in development of national and regional policies. He has previously served as a board member in several organizations such as:

Numerical Machining Complex, Kenya Industrial Research and Development Institute, and Kenya Industrial Property Institute. He has also served as a Research Officer at the Kenya Industrial Research and Development Institute, and the Ministry of Research, Science and Technology. Most recently, he served as the Head of Industrial and Allied Sciences at NCST, before his appointment to the current position in NACOSTI, as the Deputy Director and Head of Research Licensing, on 2016. He is also a member of Kenya Chemical Society and Kenya Institute of Management.

The main objective of EASTECO is to promote and coordinate the development, management and application of Science and Technology in the Partner States (composed with the Republics of Burundi, Kenya, Rwanda, South Sudan, the United Republic of Tanzania and the Republic of Uganda). The role of the Board is to provide leadership and vision to EASTECO in fulfilling its objectives. The Governing Board is also mandated to approve the policies of the commission, approve the general framework for the programs of the commission, approve the budget and audited accounts of the commission, receive and consider reports from the executive secretary on the activities of the commission, make decisions for the fulfillment of the objectives of the commission, elect the Chairperson of the Governing Board and Members of the committee for the Board, Determine priorities for regional collaborative research, networking on behalf of the commission and Direct the Secretariat to undertake any tasks that are compatible with the aims and objectives of the commission.

NACOSTI congratulates and takes this early opportunity to extend the very best wishes to Mr. Kalerwa as he takes up his new role and promises full support.

INTERNATIONAL SERVICES FOR THE ACQUISITION OF AGRI-BIOTECH APPLICATIONS ASSOCIATION (ISAAA) VISITS NACOSTI

International Services for the Acquisition of Agri-Biotech Applications Association (ISAAA) – Dr. Maragaret Karembu paid NACOSTI Director General a courtesy call on 17th July 2020. In the meeting was NACOSTI team led by Prof. Walter Oyawa – Director General, Dr. Roy Mugiira – Director of Scheduled Sciences, Dr. Steve Karimi- Director of Research Accreditation and Quality Assurance and Dr. Benson Mburu - Principal Analyst Agriculture and Natural Sciences.



From left Dr. Stephen Karimi- NACOSTI, Dr. Maragaret Karembu - ISAAA, Prof. Walter Oyawa - DG NACOSTI & Dr. Benson Mburu NACOSTI

NACOSTI partnership with ISAAA is broad, with the key engagement being the Open Forum on Agricultural Biotechnology in Africa (OFAB) Kenya Media award. ISAAA launched a call for Journalists who have been reporting on Agricultural Biotechnology on 8th July 2020 with NACOSTI taking an active role as part of the Judges panelist through Dr. Benson Mburu.

Other areas of partnerships include:

- ISAAA team engagement to train Scientist under IDRC on Science Communication
- Dr. Karembu appointment as a Research Advisory Committee member by NACOSTI
- ISAAA support to NACOSTI for National Biotechnology Development Policy Review
- Collaboration in Biosafety Issues and Bio-aware program in the Country
- ISAAA Support for Convention on Biological Diversity (CBD) and Cartagena Protocol on Biosafety Country preparatory meetings and International Meetings attendance since 2010.
- Synthetic Biology engagement where Dr. Karembu is the chair of the National Committee coordinated at NACOSTI, including being part of the team that visited Imperial College London in June 2019 hosted by Professor Paul Freemont.

ISAAA has offices in Asia and USA at Cornell University. In Africa, there are two other offices: one for Arab Speaking Countries at Cairo, Egypt and for French Speakers at Ouagadougou, Burkina Faso. In Kenya it works through NODES located at Egerton University,

Pwani University and South Eastern Kenya University (SEKU). ISAAA is mainly involved in: Knowledge Sharing, Technology Transfer, Capacity Building, Policy engagement, Partnership with Stakeholders, Communication Support to Projects and Communication research.

NACOSTI and ISAAA collaborate in Science Communication in the counties, STEM program and promotion of Women in science and engineering, is important. ISAAA together with NACOSTI have coordinated the formation of African Women in Bioscience where Dr. Edwardina, the Principal Analyst, Biological and Health Sciences NACOSTI, is a member as a branch of African Women in Science and Engineering. NACOSTI looks forward to further collaborations with ISAAA in the following areas:

- STEM programs in Counties to promote Youth engagement in Agriculture
- Promotion of Emerging Technology
- Formation of research Consortia
- Science Communication

EUROPEAN UNION FUNDS RESEARCH CONSORTIA ON BUILDING LINKS BETWEEN EUROPE AND AFRICA IN PERSONALIZED MEDICINE



NACOSTI staff Teresia Nyawira is part of research consortia of 13 institutions spread across Europe and Africa, that has won EU funding on building links between Europe and Africa on Personalised Medicine (PM). Personalised Medicine is a concept where health care is individually tailored based on a person or specific group genetic makeup, lifestyle and the environment. This has been made possible by the various advances

in genetics especially sequencing of the entire human genome and growing availability of health-related data and which has made precision medicine a clinical reality. The projects main objective is to serve as a platform from which African countries can learn from what European countries are doing in PM research and implementation, gaining new perspectives, approaches and research opportunities. The project will leverage on sharing of strategies and standards as a way of minimizing wasteful duplication and speed the progress of absorption of this important concept in Africa. Specifically, the project seeks to map health research and innovation policy landscape to identify key stakeholders, initiatives and expertise; identify future actions in PM between Africa and Europe; seek synergies and align with activities of ongoing EU research programs and other bioregional policy actions; and capacity building and awareness creation on PM. It is hoped that increasing collaboration between countries and regions will accelerate the progress towards achieving the United Nations' Sustainable Development Goals related to health and adopting the 2030 Agenda and UN Member state pledge to ensure "no one will be left behind".

KEY AGENCIES IN THE STI ECOSYSTEM RELOCATE TO NACOSTI BUILDING

NACOSTI Building constructed with support from the Government was aimed at providing adequate and conducive office space for NACOSTI. In addition, it was envisaged to provide a one stop shop Science Hub where science, technology and innovation institutions could have a home.

This vision was partially realized when the following four institutions were allocated space in the NACOSTI Building:

- i) National Research Fund (NRF)
- ii) Kenya National Innovation Agency (KENIA)
- iii) National Biosafety Authority (NBA)
- iv) Kenya National Qualifications Agency (KNQA)

At the beginning of October 2020, the four institutions moved into the building with NRF taking up the whole of second floor; KENIA taking up half a floor in ground floor; NBA taking up the whole of third floor; and KNQA taking up the whole of 4th floor. The presence of these institutions at NACOSTI building will enhance synergies in addressing common issues in the Science, Technology and Innovation sector.

NACOSTI MANAGEMENT VISITS STAKEHOLDERS IN THE COUNTIES **COURTESY CALL BY PROF. WALTER OYAWA DIRECTOR GENERAL TO UNIVERSITIES AT THE COAST**

The Director General Prof. Walter Oyawa made courtesy visit to three universities (Pwani, Taita Taveta and Technical University of

Mombasa) in the coast regions between 18th and 20th August 2020. During this visit the Director General held discussions with the Vice Chancellors and top management of each of the Universities. The Vice Chancellors shared with the Director General some of the research activities that taking place within their respective institutions and measures that they had put in place to mitigate against the effects of COVID -19 Pandemic. The Director General on his part took the opportunity to outline the functions and mandate of NACOSTI as espoused in the STI Act 2013. He further briefed them on the on-going retreat of the Commission at the PrideInn Paradise Beach Resort that was developing key documents that were crucial for the Science and Technology Sector as follows:

- A Concept for proposing to establish a Science, Technology, Innovation and Research Network (STIRN). The network is critical to facilitate policy dialogue and improve interaction among stakeholders to foster the development and strengthening of ST&I policies and investment plans that would benefit all sectors.
- Review of STI policy that had been reviewed severally to align it to the Science, Technology and Innovation Strategy for Africa (STISA-2024) and the United Nations Sustainable Development Goals

STI Implementation Framework as a separate comprehensive document to track the progress of its implementation. The Framework was to identify the key institutions in the S&T sector and assigns them responsibilities based on the eight strategic issues which were identified in the ST&I Policy

- Science and Technology indicators to guide the conduct of R&D and National Innovation (NI) surveys to track the status of R&D and innovation in the county
- The Kenyan STI Roadmap for SDGs an initiative that was being led by the State Department for Planning, (under the National Treasury), which is responsible for all matters related to SDGs

- and NACOSTI, the government agency responsible for Science, Technology and Innovation policy advisory.
- The S&T sub-sector response strategy to COVID 19 pandemic which would propose programmes for addressing the pandemic and the policy, legal and institutional framework for the response.
- NACOSTI response to COVID-19 Pandemic. Just like the other government institutions the Commission has had to adjust its operations to respond to these effects and is planning for the Post-COVID period

ON SENSITIZATION OF INSTITUTIONS ON ESTABLISHMENT OF RESEARCH CONSORTIA AND STI NETWORKS

NACOSTI, as the Implementing Agency, is consulting the relevant organ of government on the establishment of Research Consortia and various STI networks and therefore the need to sensitize stakeholders such as universities, hospitals and research institutions on the upcoming stakeholder's engagement. The Director General, NACOSTI, accompanied by Dr. Karimi and Ms. Chepleting paid a courtesy call to universities in the Rift Valley and Nyanza region. These included University of Eldoret, Moi Teaching and Referral Hospital, Moi University, Kisii University, Rongo University, an Tom Mboya University College.

The key documents discussed by the DG, included: The operationalization of the National Research Priorities (NRP), ST&I policy and its implementation framework, ST&I indicators, ST&I roadmap for SDGs, ST&I response to COVID-19 and post – COVID-19, Constitution of National Research Steering Committee which has five consortia.



Photo1: MTRH & NACOSTI Round table discussion with NACOSTI on matters ST&I



Photo 2: NACOSTI & MTRH Senior management



Photo 3: Dr. Aruasa, CEO MTRH Round table discussion with NACOSTI on matters ST&I



Photo 4: NACOSTI and UOE senior management

ON QUALITY ASSURANCE OF RESEARCH FRONT – ASSURING RESEARCH QUALITY IN GREAT LAKE UNIVERSITY OF KISUMU

NACOSTI has delegated the task of reviewing research proposals for ethical clearance to accredited Institutional Ethics Review Committees (IERCs). There are thirty-one (31) Accredited IERCs. These Committees are accredited by NACOSTI on the recommendations of the National Bioethics Committee (NBC). Between July and October 2020 monitoring and evaluation was undertaken for two institutions. Great Lakes University of Kisumu (GLUK) was visited on 2nd October 2020 by a team lead by Dr. Caroline Wafula, NBC Member. The other members of the team were Dr. Gordon Nguka, Dr. Karimi, Mr. Wanyama, Mr. Kalerwa and Ms. Chepleting. The key members of GLUK -IERC present for the M&E were Dr. Jesca Kola, Chairperson, Mr. Akwatta Fredrick, Dr. Odollo Lawrence and Ms. Nancy Okumu. The committee was first accredited on 23rd April 2014 to review protocols in public health. Their accreditation was then renewed in 2018 which is set to expire on 11th March 2021.



NACOSTI M&E Team at GLUK



M&E Having discussion with GLUK IERC Committee

STRENGTHENING COLLABORATION BETWEEN NACOSTI AND AFRICAN CENTRE FOR TECHNOLOGY STUDIES

The Director of the African Technology Policy Studies (ATPS) Dr. Nicholas Ozor together with the Chairman of the Centre Prof. Crispus Kiamba paid a Courtesy call to the Director General NACOSTI Prof. Walter Oyawa on 28th August 2020.

In his brief Prof. Oyawa welcomed the ATPS delegation and thanked them for finding time to visit NACOSTI. He informed the ATPS delegation that was still familiarizing himself with the functions of NACOSTI which could be summarized into four, namely: regulatory, advisory, promotion and coordination of STI. He however, pointed out that prior to joining NACOSTI he had been working actively within the STI ecosystem including Multimedia University, JKUAT and Commission for University Education (CUE). He further briefed the team on his past involvement at JKUAT including the establishment of the Pan African University Institute for Basic Sciences, Technology

and Innovation (PAUSTI) which prides itself as a postgraduate hub of research and innovation featuring a highly diverse faculty, and students drawn from whole of Africa. PAUSTI which is hosted at Jomo Kenyatta University of Agriculture and Technology was established November 2012. Other highlights of Prof. Oyawa's brief included:

- The relocation of the following organization to NACOSTI building- the Kenya National Innovation Agency (KENIA); National Research Fund (NRF); Biosafety Authority; Kenya National Qualification Authority (KNQA).
- Operationalization of the national research Priorities including the setting up of the national steering committee which is to be chaired by the Principal Secretary, State Department for University Education and Research.
- Establishment of research consortia
- Establishment of local STI Networks
- Operationalization of the Research Advisory Committees as envisaged under section 9 of the STI Act 2013.
- Development of the STI Response Strategy to COVID-19 Pandemic
- Strengthening of STEM through the collaboration of UNESCO and World Bank

Dr. Ozor, Director of ATPS took the opportunity to congratulate Prof. Oyawa on his appointment as the Director General of NACOSTI. He wished him success in running the affairs of NACOSTI observing that ATPS had a closely collaborated with NACOSTI since 2013 when the two institutions signed and MOU. Dr. Ozor briefed the Director General as follows:

- that ATPS was a trans-disciplinary network of researchers, policy makers, private sector actors and civil society that promote the generation, dissemination, use and mastery of STI for African development, environmental sustainability, and global inclusion.

- ATPS provides platforms for collaborative and innovative policy research to support African Governments and STI.
- ATPS has over 1,500 members and 3000 stakeholders in over 51 countries in 5 continents with institutional partnerships worldwide. Further, ATPS implements programs through members in national chapters established in 30 countries. ATPS has its secretariat in Nairobi.
- ATPS has been rated a top think-tank in Africa
- ATPS had helped seventeen countries to develop STI Policies
- In Uganda they had advised and lobbied the removal of STI Sector from the Ministry of Finance to a fully fledged Ministry of Science, Technology and Innovation.
- With the support of UNESCO, ATPS had helped Kenya to mainstream gender in STI. Towards this end a policy brief on STI Gender Mainstreaming was developed in 2015. This policy brief has been rated as one of the best in Africa.
- Kenya lacked a strategy for county engagement and ATPS was willing to support this initiative if called upon to.
- As a result of change in leadership at NACOSTI the organization had lost a lot of funding opportunities from UNESCO and the Science Policy Research Unit (SPRU) of the University of Sussex UK. SPRU is one of the world's leading centres of research on science, technology and innovation policy and management.
- ATPS had advised that a community of practices be formed and space allocated in NACOSTI building for the National Chapter as is the case in other countries. In Kenya alone, ATPS has over six hundred members
- ATPS had scheduled an appointment with the Cabinet Secretary Ministry of education and would use the opportunity to lobby for STI in Kenya
- There was need to have a policy on nanotechnology /strategy.

Prof. Crispus Kiamba on his part noted that Kenya was a host to many

UN bodies which NACOSTI could make use of. He promised to use his international links to support STI Policy if called upon to. As one of the architects of the STI Act 2013 he was happy that it had been operationalized with the three independent institutions functioning.

As a way forward the following was agreed

- The draft STI Policy be forwarded to Prof. Kiamba and Dr. Ozor for comments/input before it is forwarded to the Ministry
- Explore the possibility of having STI Policy Champions
- The need to mount STI strategy advocacy campaign
- ATP to be invited in the STI Networks
- Another meeting be scheduled as a follow up on the NACOSTI-ATPS MOU and identification of low hanging fruits



A courtesy call to NACOSTI by African Technology Policy Studies Network (ATPS) team led by Prof. Crispus Kiamba (Board Chair) and Dr. Nicholas Ozor (Executive Director) to discuss modalities and areas of collaboration for the development of Science, Technology and Innovation sector in the country

NACOSTI BIDS FAREWELL TO RETIRED STAFF



National Commission for Science, Technology and Innovation (NACOSTI) held a farewell session for its retired staff. The session held at the NACOSTI headquarters doubled as a farewell for the outgoing Director General – Dr. Moses Rugutt PhD, OGW.

The outgoing staff are:

1. Mr. Bjourn Meru – Retired Principal Analyst, Humanities & Social Sciences
2. Dr. Margaret Maimba – Retired Chief Analyst, Earth and Space
3. Dr. Simon Lang’at – Retired Chief Analyst, Biological and Health Sciences

The retiring staff expressed their gratitude to NACOSTI senior management and the staff for the support that they had been accorded during their time at the commission.

The New Director General - Prof. Walter Oyawa, welcomed the board Chairman - Prof. Peter Ogada to introduce the board members

present and the representative from the Ministry of Education. The board members present were Dr. Nicholas Kibiwott Letting, Prof. Francis W. Muregi, PhD, Ms. Rachel Shibalira and Mr. Dan Mesis. They all congratulated the retiring staff for the commitment that they had demonstrated in their work while at the commission.

The board chairman then introduced the representative from the Ministry of Education. Mr. Peter Okwanyo - Secretary Administration, University Education and Research to give his remarks and a message from the Ministry of Education. He congratulated and commended the retiring staff for the hard work they had put in during their time at the commission.

This was followed by an appreciation cake cutting ceremony and handing of gifts and memorabilia to the retired team.

NACOSTI wishes them all the very best in their future endeavors and the next season of their lives.

THE CEO OF KENYA NATIONAL QUALIFICATIONS AUTHORITY (KNQA), PAID A COURTESY CALL TO THE DIRECTOR GENERAL



The CEO of Kenya National Qualifications Authority (KNQA) Konza, Dr. Juma Mukhwana paid a courtesy call to the Director General of the National Commission for Science, Technology and Innovation (NACOSTI), Prof. Walter Oyawa, in his office.

The two CEO's discussed on possible areas of engagement between the two organizations.

NACOSTI TEAM HOLDS BILATERAL MEETING WITH DR. RICHARD LEAKEY AND TEAM

Prof. Walter Oyawa - Director General, National Commission for Science, Technology and Innovation (NACOSTI) held a bilateral meeting with Dr. Richard Leakey and a team of researchers, from the USA on Friday, 8th October 2020. In attendance was Dr. Stephen Karimi - Director of Research Accreditation and Quality Assurance and Mr. Boniface Wanyama - Deputy Director for Registration, Accreditation and Quality Assurance. The USA team comprised of Lawrence Martin and Prof. Nengo, working for Turkana Basin Institute, a research institution in Kenya supporting scientific projects in human pre-history, sustainability, climate change and modern human culture and diversity.



Dr. Leakey raised concerns majority of Kenyans were yet to appreciate the critical role of science, technology and Innovation (STI) in national development. He pointed out that the African continent lacked competitive research universities. Only four African Universities were currently ranked in the top 500 in the world and all these were in the Republic of South Africa. Given that Africa hosts about 14% of the world's population and with the fastest growth rates. He further observed that many of African scholars who studied and earned PhD degrees abroad never return to their respective countries for lack of adequate incentives to do so. There are no concrete measures to ensure that brain drain was reduced. Inadequate facilities and funding hindered leading scholars on the continent to maintain a scientific programme of excellence; he proposed a series of alliances between African and non-African universities starting with the world's leading organizations for research universities to address the problem for mutual benefit. Currently, discussions had been initiated with the deans from the Association of American Universities (AAMU) about ten years ago. The potential partnership will be used to illustrate a broader alliance that could rapidly be extended to include the Russell Group in the UK, the League of European Research Universities, the C9 in China as well as leading universities in Australia, Canada, Japan, South Korea, New Zealand, Asia and South America. In this regard he called upon NACOSTI given its research mandate to explore the possibilities of facilitating this process at the national level.

Dr. Leakey further stated that evolution of life is a fact and observed that every single past and living human being share a common ancestor. Kenya was very strategic and holds a unique place globally that could unravel the origin of human species. Dr. Leakey together with other partners were set to establish Ngaren museum where the world will come face to face with the forces of change that brought about the existence and imagine the changes needed to sustain it. The construction work of Ngaren museum which is located in Rift Valley

is scheduled to start in 2024 and end in 2026. The museum will have the capacity to host over 1 million visitors annually. Ngaren will: have the only all -digital Planetarium in Africa; be the only African museum to display real-size dinosaurs; create, teach and promote science, sustainability, imagination and equality; and inform, inspire and empower with the realization that we are all one human family and part of the planet we call home.

Prof. Oyawa briefed the team on the role of NACOSTI in regulation, quality assurance and advisory on matters of STI. He stressed that the Science, Technology and innovation Act had assigned NACOSTI seventeen (17) functions which could be summarized as: regulation, advisory, promotion and coordination of STI. He stated that NACOSTI was on a mission of strengthening research in the research institutions and universities. National research priorities for 2018-2023 were now being operationalized through establishment of a National Steering Committee Chaired by the Principal Secretary for the State Department of University Education and Research as well as establishment of research consortium. Other initiatives of strengthening research in universities will be through establishment of University research chairs in strategic areas taking cognizance of the success of the two university research chairs in health system and technology innovation in manufacturing being implemented at the Moi University and Jomo Kenyatta University of Agriculture and Technology.

In his concluding remarks Prof. Oyawa thanked Dr. Leakey and his team for the warm welcome and promised to support the work that Dr. Leakey was doing in conservation and further that NACOSTI will work with the team, and other stakeholders to establish a science museum as envisaged in the STI Act. He invited Dr. Leakey to support the establishment of a research chair in his legacy as a champion of science globally. It was agreed that another formal meeting would be held to firm up some of the proposals made during this discussion.

COURTESY CALL VISIT TO NACOSTI BY DIRECTOR MPALA RESEARCH CENTRE, 2ND NOVEMBER 2020

The Director of Mpala Research Institute, Dr. Martin Dino paid a courtesy call to NACOSTI where he held a bilateral discussion with the team from NACOSTI led by Prof. Walter Oyawa, the Director General of NACOSTI. Together with the Director General was Dr. Stephen Karimi, Director, Research Accreditation and Quality Assurance, and Mr. Boniface Wanyama, Deputy Director, Registration, Accreditation and Quality Assurance. In his remarks, Dr. Dino gave a brief on the activities of Mpala Research Institute.



NACOSTI STAFF, DR. DAVID NJUBI, ATTENDS A 5-DAY WORKSHOP ON VISION 2030 PROJECTS



NACOSTI staff, Dr. David Njubi attended a 5-day workshop (4th to 9th October 2020) to validate Vision 2030 flagship projects progress reports (MTP I and II, and FY 2019/20). The reports will inform policy decisions in fast-tracking the implementation of the Vision 2030 Flagship projects in line with Vision Delivery Board's mandate. Over 90% of the invited MDAs attended.

The official opening of the workshop was by Economic Planning Secretary, State Department for Planning Madam Katherine Muoki on behalf of the Principal Secretary. Official Opening of Stakeholder Validation workshop for Vision 2030 Progress Report. The function was officiated by Economic Planning Secretary, State Department for Planning Madam Katherine Muoki.

Our country's long term development blue print, Vision 2030 aims to transform Kenya into a middle income industrialized country offering a high quality of life to all our citizens. It is being implemented through successive five-year medium term plans. This Third Medium Term Plan (2018-2022) has been aligned with the Jubilee Manifesto 2017, with particular focus on implementing policies, programmes and projects designed to achieve the "Big Four" priority areas namely: industrialization, manufacturing and agro-processing; affordable housing; food and nutrition security; and, universal health care. Implementation of these four initiatives will not only support higher economic growth and faster job creation, but also reduce the high cost of living affecting many of our people.

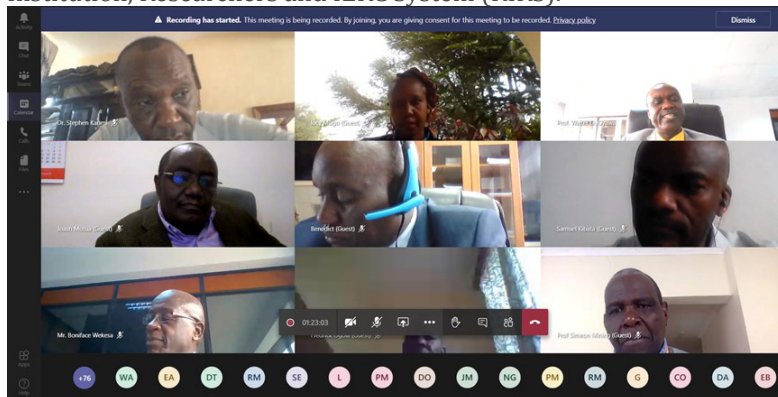
The ST&I sector is one of the enablers and it is critical to achievement of aspirations of vision 2030. The ST&I Sector Plan focuses on generation, protection, management and application of ST&I as key requirements for the transformation of the country's economy from one that is commodity based to one that is innovation-led and knowledge-based. The Plan aims at intensifying the application of ST&I to raise productivity and efficiency levels across all the sectors of the economy for the realisation of the projected economic growth and development.

The objective of the ST&I Sector Plan is to integrate ST&I in national production processes and create technology platforms that are essential for the generation of new knowledge and the development of products, processes and services in a wide range of sectors. The programmes and projects in the Plan have been conceptualized to support the Government Strategic Interventions under the four identified pillars of change: Manufacturing, Agro-processing, Housing and Health, popularly referred to as the "Big 4".

The workshop was to validate the flagship projects so that a report can be generated that effectively track progress of Vision 2030 targets, share experiences, challenges and lessons learnt and inform policy formulation.

SENSITIZATION WORKSHOP ON RESEARCH INSTITUTIONS, RESEARCHERS AND IERCS SYSTEM (RIRS)

NACOSTI held a virtual workshop on the 23rd July 2020 aimed at providing a platform for key stakeholders to give their input on the Researchers, IERCs, and Research Institution System (RIRS) and sensitize ST&I Stakeholders of the development of RIRS. The workshop brought together over one hundred and three (103) participants drawn from a wide range of key stakeholders consisting of representatives from Registered Research Institutions, both private and public universities, Government agencies/parastatals, Institutional Ethics Review Committees (IERC), National Bioethics Committee (NBC) members and NACOSTI staff. NACOSTI in collaboration with KEMRI, Pharmacy and Poisons Board (PPB) were awarded a competitive grant by the European & Developing Countries Clinical Trials Partnership (EDCTP) in 2018 with the aim of strengthening compliance in Research Regulation in Kenya. Part of this grant was meant for supporting the development of a Research Institution, Researchers and IERC System (RIRS).



Group photo

Prof. Walter Oyawa- Director General, NACOSTI, officially opened the workshop and welcomed the participants on behalf of NACOSTI fraternity. He applauded the huge number of participants and appreciated the passion from institutions on matters related to research. He mentioned that NACOSTI has 17 functions which can be contracted to promotion, regulation, advising and coordination of Science, Technology and Innovation. He appreciated the team for organizing the workshop since the COVID regime is forcing digitization of systems and processes. He noted that NACOSTI is focusing on operationalization of the National Research Priority document by creating a research consortium focusing on big 4 agenda plus research, finalization of ST&I policy, development of ST&I road map which links SDG and big 4 agenda and creation of ST&I network which will bring together interested research experts from different fields. Kenya performed well in global innovation index particularly in patenting and hence encouraged universities and research institutions to finalize intellectual property policies. He also talked on the importance of having a research license from NACOSTI and wished the participants productive exchange of ideas encouraging them to engage in active and open discussions.

Dr. Stephen Karimi- Director Research, Accreditation and Quality Assurance, NACOSTI, welcomed and thanked the stakeholders present for the workshop. He mentioned that the importance of the RIRS system is to avoid duplication of research and enable institutions share research equipment. The system's efficiency will ease access of services offered by NACOSTI by improving transparency since the system will counter plagiarism. It will also improve knowledge management since information will be gathered from universities, hospitals and Research institutions and that having the system running is progress of achieving a one stop shop for researchers. NACOSTI will organize a workshop that will bring together all the

CEOs of research regulators and have all systems integrated to improve the research ecosystem in Kenya.

Prof. Elizabeth Bukusi- Chief Research Officer KEMRI, noted that the system being developed will help researchers do their work in an accountable and safe manner. She mentioned that the system is being supported by European & Developing Countries Clinical Trials Partnership (EDCTP) which focusses on systems for research regulations. She applauded NACOSTI for the progress so far in implementing the system and hoped regulation of research and research compliance will be adhered to by researchers and that it was a pleasure to work with former Director General NACOSTI, Dr. Moses Rugutt, who helped them build the foundation of the system.

Mr. Boniface Wanyama, Chief Analyst NACOSTI, gave a presentation of the mandate of NACOSTI and about RIRS. The presentation highlighted the research regulatory framework, quality assurance of research, highlights of registration of research institutions, highlights of legal notice no. 106, development of RIRS and its capabilities, expectations, and a way forward.

The participants were also taken through the process of signing up for an account, logging in, registering a researcher, applying for registration of research institutions, applying for accreditation of Institutional Ethics Review Committees and submission of annual reports by research institutions and IERCs by Isaya Opondo, RIRS consultant. The presentation was followed by a plenary discussion. Most of the participants applauded NACOSTI for the good initiative of developing the RIRS and that they were happy to be associated with this initiative and were looking forward to the end product.

The session was interactive with a couple of questions being raised and the responses given. Some of the responses given were: the institutions that have already been registered need not to go through the system again but to update and maintain the data in the system

and submit annual reports; registration of researchers is free; all researchers in the country will be expected to register in the system (whether in a registered research institution or in a university), all research in animal science, social sciences, environmental science, public health, biomedical science, biological science need IERC clearance; the Model Institutional Intellectual Property Management policy was shared with the research institutions and universities for their comments and the template is to be finalized soon (further info godfrey.kalerwa@nacosti.go.ke); individual researchers/ consultants do apply for Research Licenses; non-Kenyans must be affiliated to a local relevant institution; RIMS is a system for applying for research license while RIRS is a system for Registering Researchers, Research institutions and IERCs therefore the two are different; the granted Research License is sent to one's NACOSTI account and email; audited financial statements is a requirement for an institution applying for registration as a research institution (It doesn't apply to universities); affiliation should be to one institution (for accountability) and all researchers in the country will have to register with NACOSTI. They appreciated the stakeholders for their input.

The system was set to go live on 3rd August 2020. The way forward adopted was participants can test the system before it goes live and send their inputs and comments to NACOSTI; when the system is ready, NACOSTI shall communicate to the public through the commission's website and letters to the head of institutions to alert the researchers to apply; all registered research institutions and accredited IERCs will be expected to provide details of a technical person who will be given rights to access the system; the system will be improved as we go along, and the interaction of researchers and institution with the system will help do so and NACOSTI will prepare a manual of the system that will ease the use of the system and will be used to sensitize staff in the institutions.

REVITALIZATION OF THE RESEARCH ECOSYSTEM IN KENYA

The National Commission for Science, Technology and Innovation (NACOSTI) is established by the Science, Technology and Innovation Act, No. 28 of 2013 (ST&I Act) as a State Corporation. NACOSTI regulates and assures quality in Science, Technology and Innovation (ST&I) Sector and advises the Government in matters related thereto. NACOSTI is also mandated to annually collect data from research institutions and universities and submit a report to the Cabinet Secretary responsible for matters of ST&I. Consequently, Heads of research institutions, universities and colleges are requested to submit data on annual basis to the Commission in the format provided for in NACOSTI website: www.nacosti.go.ke

Welcome to Research Institutions, Researchers and IERCs System (RIRS)

The National Commission for Science, Technology and Innovation (NACOSTI) is established by the Science, Technology and Innovation Act, No. 28 of 2013 as a State Corporation. NACOSTI regulates and assures quality in Science, Technology and Innovation Sector and advises the Government in matters related thereto. Section 15 (1) of the Legal Notice NO. 106 of 2014 provides for the recognition of researchers by registration, licensing and regulation.

RIRS caters for researchers, research institutions, Institutional Ethics Review Committees and general public. It ensures seamless data and information exchange between various systems used within research ecosystem. The

Screenshot of the RIRS Portal

As part of regulation of research, Section 12 of the ST&I Act makes it mandatory for anyone undertaking research in Kenya to apply for a grant of a license while Sections 16 and 17 provides for registration of research institutions. The ST&I Act provides **for a fine of five**

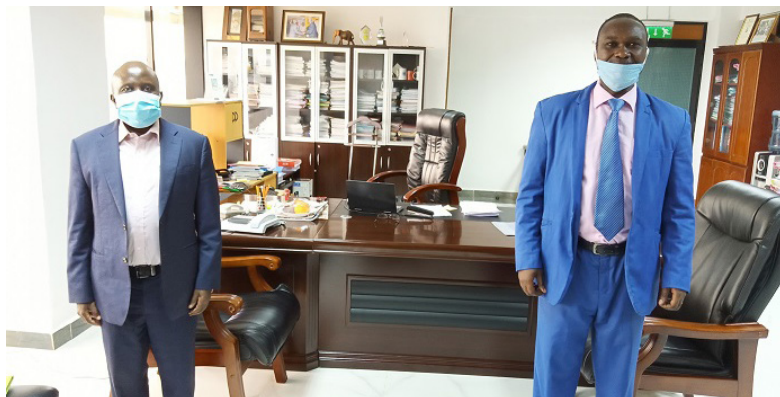
million shillings or imprisonment for a jail term of not exceeding four years or both in contravention of Section 12. Further, the ST&I Act under Section 21 outlaws establishing and operating a research institution without obtaining a Certificate of Registration and provides for a fine of one million shilling or a jail term not exceeding more than two years or both in contravention of this section. In addition, Section 15 (1) of the Legal Notice No. 106 of 2014 provides for the recognition of researchers by registration, licensing and regulation.

NACOSTI in collaboration with Kenya Medical Research Institute (KEMRI), Pharmacy and Poisons Board (PPB) were awarded a competitive grant by the European & Developing Countries Clinical Trials Partnership (EDCTP) in 2018 with the aim of strengthening compliance in research regulation in Kenya. Part of this grant is supporting the development of a Research Institutions, Researchers and Institutional Ethics Review Committees (IERCs) System (RIRS).

The System which is in the final stages of development will revitalize the research ecosystem in the country. It will ensure seamless data and information exchange between various system used in the research ecosystem. It will also provide a platform for research institutions, researchers and IERCs to register, share and exchange data and information. The general public upon registration in the system will also have some rights to access the information .

As part of stakeholders engagement, NACOSTI plans to hold a sensitization workshops for the key users of the System who include research institutions, researchers, IERCs and universities. The workshop which will be held virtually has been scheduled for **Thursday, 23rd July 2020.**

THE CEO OF KONZA TECHNOPOLES DEVELOPMENT AUTHORITY (KOTDA), PAID A COURTESY CALL TO THE DIRECTOR GENERAL



The CEO of Konza Technopolis Development Authority (KoTDA), Eng. John Tanui paid a courtesy call to the Director General of the National Commission for Science, Technology and Innovation (NACOSTI), Prof. Walter Oyawa, in his office.

The two CEO's discussed on how the two organizations can build synergy in the area of Science, Technology, Innovation and Research. They noted that KoTDA and NACOSTI had complementary mandate as implementing agency and regulator, respectively. Whereas KoTDA was established to ensure that Konza grows into a sustainable, world-class technology hub and a major economic driver for the nation, NACOSTI was established to regulate and assure quality in the science, technology and innovation sector and advise the Government in matters related thereto.

In their discussion, Eng. Tanui and Prof. Oyawa also recalled previous fruitful engagement and partnership that is now culminating into the launch of Kenya's first Specialized Degree Awarding Institution of Strategic National Importance, the Kenya Advanced Institute of Science and Technology (KAIST). The construction of the multibillion KAIST is soon commencing at Konza Technopolis, and may form a strong foundation for partnership between KoTDA and NACOSTI, taking cognizance of their complementary roles.

The two CEOs agreed that teams from the two institutions meet virtually next week to deliberate on possible areas of collaboration and way forward.

AFRA HOLDS 31ST REGIONAL MEETING VIRTUALLY



AFRICAN REGIONAL COOPERATIVE AGREEMENT FOR RESEARCH, DEVELOPMENT AND TRAINING RELATED TO NUCLEAR SCIENCE AND TECHNOLOGY (AFRA) 31st TWGM

African Regional Cooperative Agreement for Research, Development and Training Related to Nuclear Science and Technology (AFRA) held its 31st Technical Working Group Meeting (TWGM) on Thursday 23rd to Friday 24th July 2020. The meeting was officially opened by the Minister of Higher Education and Scientific Research (MESRS), Madame Eleonore YAYI LADEKAN, who on behalf of the Benin government welcomed the delegates virtually to Cotonou. The objective of this meeting was to review reports of the AFRA Committees and make recommendations to the Meeting of Representatives (MoR) of Member States for adoption and further action.

The programme included presentations by the Chairpersons of the AFRA Committees namely: Programme Management Committee (PMC); Partnership Building and Resource Mobilization Committee (PBRMC) and High-Level Steering Committee (HLSC) on Human Resource Development and Nuclear Knowledge Management. IAEA

was represented by the Deputy Director IAEA and Director for Africa, Technical Cooperation Department, Prof. A. Shaukat. He noted that all regional projects are now under AFRA, the 2021-23 Regional Program Note(RPN) had been finalized and ready for approval by member states, more projects were to be approved in the next cycle while Africa member states to take a lead in implementation, there was decreased implementation of the existing projects and payment of annual subscription by member states had fallen to 20%. Kenya was represented by Prof. Walter Oyawa, Director General-NACOSTI and AFRA National Coordinator Kenya, and Mr. Stephen Situma, Senior Research Analyst - Physical, Industrial and Energy Sciences.

The AFRA focal point Ms. Margaret Mashingila reported that in 2019, there was an increase in budgetary allocation to AFRA projects, gender disparity in the expert missions to AFRA related activities in Africa and coordination between Project Management officers, Counter Parts and Scientific coordinators. She noted that there was a decrease in funds absorption as well as member state contributions and her office was working to initiate more RDC and collaboration among the AFRA members and other regional IAEA organization especially on Nuclear Science Knowledge Management. She urged the AFRA National Coordinators to implement projects and encourage member states to recruit experts and develop Human Resource Development plans in Nuclear Knowledge Management. Kenya stands to benefit from ongoing AFRA projects and the 19 approved 21-23 Regional program Framework projects in which Human health and nutrition, Energy and planning Climate change areas have been added.

Promotion of Nuclear science and Technology through capacity building of member states through regional and member states will be used in implementation of STEM-NST program among secondary schools. Kenya was proposed to host pilot the pilot program.

Key recommendations of the two-day meeting were;

- AFRA to create its own database of AFRA NCs,
- nominate female and young scientists and technicians to participate in AFRA events and initiate the call for applications for the Recognition of RDCs in new and emerging field of activities,
- promotion of partnerships with non-traditional donor countries,
- the private Sector and foundations to complement AFRA Fund.

State Parties will be required to fill and submit the new online Human Resource Development questionnaire submitted by HLSC, State Parties to develop national Human Resource Development Plans and STEM-NST to be rolled out at regional and member state level and there will be piloting of the STEM-NST program from 2021.

AFRA TECHNICAL WORKING GROUP MEETING

The African Regional Cooperative Agreement for Research, Development and Training Related to Nuclear Science and Technology (AFRA), with support from the International Atomic Energy Agency (IAEA), will hold its 31st Technical Working Group Meeting (TWGM) in Conakry, Benin from 20th to 24th July.

The meeting will provide the opportunity for AFRA States-Parties to discuss and finalize the agenda of the AFRA High-Level Policy Meeting and schedule a ministerial conference to upraise AFRA in view of last appraisal having happened in 2008.



Prof. Walter Oyawa – Director General – NACOSTI

Friday, 10th July 2020, NACOSTI Director General – Prof. Walter Oyawa, and AFRA National Coordinator hosted Prof. Kahindi - Deputy Vice Chancellor of Pwani University and Chairman of High-Level Steering Committee on Nuclear Knowledge Management Committee of AFRA. He had circulated a draft MoU between Africa Commission on Nuclear Energy (AFCONE) and AFRA to State Parties as it will be among the Technical Working Group Meeting (TWGM) agenda.

Also present in the meeting was Dr. David Otwoma, the Chief Analyst in Physical, Industry and Energy Sciences Schedule (NACOSTI), Mr. Stephen Situma, the Senior Analyst in (NACOSTI) and Mr. Felix O. Wanjala the Project Management Officer assisting the AFRA Focal Point who explained the backstopping role of the IAEA in handling AFRA matters. Mr. Wanjala explained the need for AFRA NC to spearhead adherence to meeting obligations to AFRA principal among them being the annual payment to AFRA Fund and ensuring Kenya

participates in AFRA Projects effectively and efficiently for maximum impact on daily lives of citizens.



Mr. Felix O. Wanjala - Project Management Officer, AFRA Focal Point

The meeting agreed to: -

1. Intensify and enhance joint research, education and networking activities in the areas of Nuclear Science and Technology, as well as STEM education
2. Collaborate in the documentation and preparation of "Science, Technology, and Innovation Response to Covid Pandemic and Post-Covid Recovery Strategy"
3. Budget for the AFRA Fund annual payment so as to meet statutory dues and also domicile important dates i.e. TWGM, African Meeting of Representatives, and other decision-making meetings in DG's office.

4. Inform participants at Cabinet Secretary and Principal Secretary level in advance on scheduled meetings that require their participation.

The meeting also created an ad hoc committee spearheaded by Stephen Situma to reach out to important stakeholders in Nuclear Power and Energy Agency, Nuclear Regulatory Authority and Academia, among others, to interrogate the draft MoU between AFRA and AFCONE, shared by IAEA and AFRA before advising the AFRA NC to submit it to AFRA for onward transmission to IAEA after the 31st TWGM. NACOSTI will continue to support the efforts towards the success of the meeting.

NACOSTI STAFF SECTION



*Prof. Walter O. Oyawa, PhD
Director General/CEO*



*Dr. Stephen
Karimi, Ph.D
Director, Research,
Accreditation and
Quality Assurance*



*Dr. Roy B. Mugiira
-Director, Scheduled
Sciences*



*Mr. Gideon Kirui -Ag.
Director Corporate
Services*



*Mr. Godfrey Kalerwa
Chief Research,
Quality Assurance
Officer*



*Mr. Bonface Wekesa
Chief Research,
Quality Assurance
Officer*



*Ms. Margaret Muthee
Chief Analyst,
Humanities and
Social Sciences*



*Ms. Margaret Muthee
Chief Analyst,
Humanities and
Social Sciences*



*Dr. David Njubi
Chief Analyst,
Agricultural and
Natural Science*



*Dr. David Otwoma
Chief Analyst,
Physical & Industrial
Science*



*Ms. Yasmin Hussein
Deputy Director,
Supply Chain
Management*



*Ms. Jennifer Murgor
Deputy Director,
Human Resource*



*Mr. Abdallah Bii
Deputy Director,
Legal Services*



*Mr. Patrick Kurui
Deputy Director,
Internal Audit*



*Dr. Benson Kinyagia
Principal Analyst,
Agriculture and
Natural Resources*



*Dr. Edwardina
Ndhine Principal
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and Health Science*



*Mr. Stephen Situma
Senior Analyst,
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*Ms. Charity Muchoki
Senior Analyst,
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*Mr. Amon Komen
Senior Analyst,
Physical & Industrial
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*Mr. Julius Mwangi
Senior Analyst, Earth
and Space Science*



*Ms. Esther Mbula
Senior Human
Resource Officer*



*Mr. Denis Yegon
Senior ICT Officer*



*Mr. Muhanji Ambani
Senior
Administration
Officer*



*Ms. Ruth Were
Senior Supply Chain
Management Officer*



*Ms. Joan Chepleting
Research Quality
Assurance Officer*



*Mr. Steven Indimuli
Research Quality
Assurance Officer*



*Mr. David Amiani
Licencing,
Monitoring &
Evaluation Officer*



*Ms. Lilian Awala
Licencing,
Monitoring &
Evaluation Officer*



*Ms. Rael Adhiambo
Analyst, Earth and
Space Science*



*Mr. Ezekiah Gatheru
Analyst, Infrastructure,
Information &
Communication Sciences*



*Mr. Samuel Njuguna
Analyst, Humanities
and Social Sciences*



*Ms. Pauline Kuyan
Accountant*



*Mr. James Otuga
Property Management
Officer*



*Mr. Cyprian Karithi
Records Management
Officer*



*Mr. Rollex Opondo
Records Management
Officer*



*Ms. Alice Otworu
Senior Office
Administrator*



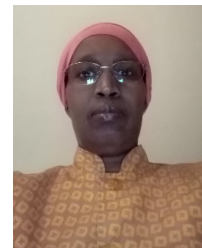
*Ms. Wairimu Ikua
Senior Officer
Administrator*



*Ms. Christine Kayesi
Senior Officer
Administrator*



*Ms. Millicent
Atieno Officer
Administrator*



*Ms. Jane Lugonzo
Records Management
Officer*



*Ms. Marren Oriko
Supplies Chain
Management Assistant*



*Mr. Paul Anuro Senior
Driver*

NACOSTI STAFF TEAM BUILDING

Team Building exercise by NACOSTI Staff held at Sawela Lodges, Naivasha from 11th and 12th July 2019.

Teamwork - coming together is a beginning, keeping together is progress and working together is success – Henry Ford







REGISTERED RESEARCH INSTITUTIONS

| S/NO. | INSTITUTION | PHYSICAL LOCATION |
|-------|--|---|
| | Kenya Forestry Research Institute (KEFRI) | Muguga, Off Nairobi - Nakuru Highway, Nairobi. |
| | Kenya Marine and Fisheries Research Institute (KMFRI) | Mkomani, Silos Road, English Point, Mombasa |
| | National Museums of Kenya (NMK) | Museum Hill, Nairobi |
| | British Institute in Eastern Africa | Kileleshwa, Laikipia Road, Nairobi. |
| | Kenya Medical Research Institute (KEMRI) | Ngumo, Off Mbagathi Way, Nairobi. |
| | Kenya Industrial Research and Development Institute (KIRDI) | South C, Popo Road, Nairobi. |
| | Kenya Water Institute (KEWI) | South C, Ole Shapara Ave, Nairobi |
| | International Centre for Insect Physiology and Ecology (ICIPE) | Duduville Campus, Off Kasarani Road, Nairobi |
| | The Nairobi Hospital | Upper hill, Argwings Kodhek Road, along Valley Road, Nairobi. |
| | International Centre for Research in Agroforestry (ICRAF) | ICRAF Campus, Gigiri , Nairobi |
| | International Livestock Research Institute (ILRI) | ILRI Campus, Uthiru, Nairobi |

| | | |
|--|--|---|
| | Elizabeth Glaser Pediatric and AIDS Foundation | Ariel House, Westlands Avenue, Off David Osieli Road, Nairobi |
| | Institute of Primate Research | Oloolua Forest, End of Karen Road, Nairobi |
| | Institute of Energy Studies and Research | Ruaraka, Next to Utalii Hotel, Thika Road |
| | The Turkana Basin Institute | Karen, Hardy Post 2nd Floor Ushirika Road, Nairobi. |
| | CAB International | 673 Canary Bird, Limuru Rd, Muthaiga, Nairobi |
| | Bioversity International | ICRAF, United Nations Avenue, Gigiri |
| | African Population and Health Research Centre | APHRC Campus, Manga Cl, Nairobi |
| | Mpala Research Centre | Mpala Ranch, Naibor- Rumuruti Road |
| | International Potato Centre (CIP) | ILRI Campus-Old Naivasha Road |
| | Trendy Consulting International Limited | 4th Floor, College House, CBD, Nairobi, Kenya |

LICENSING OF RESEARCH

FREQUENTLY ASKED QUESTIONS ON RESEARCH LICENSING

Who should apply for a Research License?

All persons intending to undertake research in the Country

Should a researcher employed by a research institution apply for a Research License?

Yes. Registration as a research institution is recognition of the corporate entity as per Regulation 106 while Research Licensing is guided by Regulation 108 of the Science, Technology and Innovation Act, 2013 (Rev. 2014)

Do you grant Research Licenses to individuals/Consultants?

Yes. Citizens need not be affiliated to an institution before application for a Research License. However, a non-Kenyan must be affiliated to a local relevant institution.

How do you obtain a research license in Kenya?

Applications are made online through the Website (www.nacosti.go.ke)

Does application for a Research License exempt one from other legislation?

No. Access, handling or transfer of research material, technology or data may be subject to other existing legislation and regulations

How long does it take to process a Research License?

Subject to meeting all the requirements, one should be able to be granted a Research License within 30 days

How can I access my Research License?

Upon grant, Research License will be available/downloadable from applicants' account or email.

Who should apply for ethical approval?

Ethical approval is desirable for all research. However, it is mandatory for research involving human subjects and use of laboratory animals. Accredited Institutional Ethics

Review Committees in Kenya

(<https://research-portal.nacosti.go.ke/AccreditedInstitutions.html>)

Do foreigners require a research license to engage in research in Kenya?

Yes. All persons intending to undertake research in the country are required to apply for a Research License and must be affiliated to a local relevant institution.

How do I pay for my research license?

Payments are made through mobile money payment or direct bank deposit.

What is the validity period of a Research License?

The Research License granted for a period of one year. However, one may apply for renewal of the License.

PUBLIC NOTICE

NATIONAL COMMISSION FOR SCIENCE, TECHNOLOGY AND INNOVATION (NACOSTI)

Licensing of Research Projects

The National Commission for Science, Technology and Innovation is established by the Science, Technology and Innovation Act, No. 28 of 2013 (the Act) as a State Corporation. The Commission regulates and assures quality in Science, Technology and Innovation Sector and advises the Government in matters related thereto.

According to the Section 6(1) of the Act, the functions of the Commission include accreditation of research institutions and approval of **ALL** research in Kenya. Pursuant thereto, the public is hereby notified that according to the Science, Technology and Innovation (Research Licensing) Regulations, 2014, individuals **MUST** have a valid Research Licence from the Commission. This applies to both academic and non-academic research.

Further, Section 15 of the Act makes it an offence to engage in research without a valid Research License and provides that any person found guilty shall *“in addition to any other penalty which may be provided for in this Act or any other written law, be liable on conviction to a fine not exceeding **five million shillings** or to imprisonment for a term not exceeding **four years**, or both.” five million shillings or to imprisonment for a term not exceeding four years, or both.”*

Details are available under our online services <https://research-portal.nacosti.go.ke/>

Prof. Walter O. Oyawa, PhD

Director General

National Commission for Science, Technology and Innovation
(NACOSTI),

Upper Kabete, Off Waiyaki Way

P.O. Box 30623 – 00100, Nairobi, Kenya

TEL: 020 400 7000, 0713 788787, 0735 404245

Email: info@nacosti.go.ke

Website: www.nacosti.go.ke

NACOSTI is ISO 9001:2015 Certified

NATIONAL RESEARCH PRIORITIES



In line with its functions as specified in the STI Act, NACOSTI, in consultation with stakeholders, has developed the National Research Priorities 2018-22 as a means of enhancing coordination and cooperation on national research agenda among the actors. The National Research Priorities document is a five-year plan focusing on the Big Four Agenda and Research viz; Food and Nutrition Security; Affordable Housing; Manufacturing; Universal Health Coverage; and Academic Research and Development. The overall goal and expected impact is to

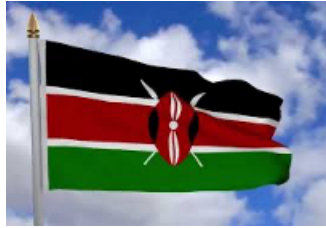
increase productivity, achieve sustainable economic growth, create employment, promote equity and improve national wellbeing.

Formulation of the Research Priorities took cognizance of the Constitution, Kenya Vision 2030 and its Third Medium Term Plan, and Sector Plans. The Research Priorities is also anchored on international commitments including the Sustainable Development Goals (SDGs), the Science, Technology and Innovation Strategy for Africa (STISA) 2024 and the African Development Agenda 2063.

In line with the National Research Priorities Framework, NACOSTI anticipates the establishment and operationalization of the National Research Steering Committee during FY 2020/2021. Further, the National Research Priorities Delivery Secretariat, coordinated by

NACOSTI, is also expected to be operationalized, and thereafter [the establishment](#) and operationalization of Research Consortia in various multidisciplinary STI fields. NACOSTI is committed to supporting public research agencies and other partners to achieve the expected research outputs and outcomes in these priority areas. The National Research Priorities document can be downloaded at: www.nacosti.go.ke

NATIONAL ANTHEM



| | |
|-----------|---------|
| Kiswahili | English |
|-----------|---------|

| | |
|------------------|----------------|
| KISWAHILI | ENGLISH |
|------------------|----------------|

| | |
|---------------------|-----------------------|
| Ee Mungu nguvu yetu | O God of all creation |
|---------------------|-----------------------|

| | |
|--------------------|--------------------------------|
| Ilete baraka kwetu | Bless this our land and nation |
|--------------------|--------------------------------|

| | |
|-------------------------|------------------------------------|
| Haki iwe ngao na mlinzi | Justice be our shield and defender |
|-------------------------|------------------------------------|

| | |
|-------------------|-----------------------|
| Natukae na undugu | May we dwell in unity |
|-------------------|-----------------------|

| | |
|----------------|-------------------|
| Amani na uhuru | Peace and liberty |
|----------------|-------------------|

| | |
|------------------------|----------------------------|
| Raha tupate na ustawi. | Plenty be found within our |
|------------------------|----------------------------|

| | |
|----------|--|
| borders. | |
|----------|--|

| | |
|-------------------|-----------------------|
| Amkeni ndugu zetu | Let one and all arise |
|-------------------|-----------------------|

| | |
|--------------------|----------------------------------|
| Tufanye sote bidii | With hearts both strong and true |
|--------------------|----------------------------------|

| | |
|------------------------|----------------------------------|
| Nasi tujitoe kwa nguvu | Service be our earnest endeavour |
|------------------------|----------------------------------|

| | |
|--------------------|---------------------------|
| Nchi yetu ya Kenya | And our homeland of Kenya |
|--------------------|---------------------------|

| | |
|--------------|-----------------------|
| Tunayoipenda | Heritage of splendour |
|--------------|-----------------------|

| | |
|----------------------|------------------------------|
| Tuwe tayari kuilinda | Firm may we stand to defend. |
|----------------------|------------------------------|

| | |
|----------------------|-------------------------|
| Natujenge taifa letu | Let all with one accord |
|----------------------|-------------------------|

| | |
|----------------------|-----------------------|
| Ee, ndio wajibu wetu | In common bond united |
|----------------------|-----------------------|

| | |
|------------------------|--------------------------------|
| Kenya istahili heshima | Build this our nation together |
|------------------------|--------------------------------|

| | |
|-----------------|------------------------|
| Tuongane mikono | And the glory of Kenya |
|-----------------|------------------------|

| | |
|---------------|-------------------------|
| Pamoja kazini | The fruit of our labour |
|---------------|-------------------------|

| | |
|----------------------------|------------------------------------|
| Kila siku tuwe na shukrani | Fill every heart with thanksgiving |
|----------------------------|------------------------------------|

EAST AFRICA COMMUNITY ANTHEM



Verse 1

Ee Mungu twaomba ulinde
Jumuiya Afrika Mashariki
Tuwereshe kuishi kwa amani
Tutimize na malengo yetu.

Chorus

Jumiya Yetu sole tuilende
Tuwajibike tuimarike
Umoja wetuni nguzo yetu
Idumu Jumuiya yete.

Verse 2

Uzalendo pia mshikamano
Viwe msingi wa Umoja wetu
Natulinde Uhuru na Amani
Mila zetu Na desturi zetu.

Verse 3

Viwandani na hata mashambani
Tufanye kazi sote kwa makini
Tujitoe kwa hali na mali
Tuijenge Jumuiya bora.

